

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112618\
 Data File : VF060829.D
 Acq On : 26 Nov 2018 18:30
 Operator : VA/AP
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Quant Time: Nov 27 01:07:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 00:28:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	apatel
1) Pentafluorobenzene	4.91	168	194403	50.00	ug/l	0.00	
34) 1,4-Difluorobenzene	5.64	114	304514	50.00	ug/l	0.00	
63) Chlorobenzene-d5	9.81	117	309444	50.00	ug/l	0.00	
72) 1,4-Dichlorobenzene-d4	12.57	152	152856	50.00	ug/l	0.00	11/27/2018 3:16:55 PM

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.88	65	119826	53.21	ug/l	0.00	
Spiked Amount	50.000		Recovery	=	106.42%		
35) Dibromofluoromethane	4.15	113	126426	53.72	ug/l	0.00	
Spiked Amount	50.000		Recovery	=	107.44%		
50) Toluene-d8	7.59	98	369318	53.66	ug/l	0.00	
Spiked Amount	50.000		Recovery	=	107.32%		
62) 4-Bromofluorobenzene	11.44	95	167220	52.46	ug/l	0.00	
Spiked Amount	50.000		Recovery	=	104.92%		

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	143942	42.893	ug/l	100
3) Chloromethane	1.10	50	84785	41.154	ug/l	100
4) Vinyl Chloride	1.15	62	85698	45.740	ug/l	100
5) Bromomethane	1.34	94	64022	52.769	ug/l	100
6) Chloroethane	1.39	64	39785	54.261	ug/l	100
7) Trichlorofluoromethane	1.50	101	194694	47.227	ug/l	100
8) Diethyl Ether	1.64	74	27091	50.302	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.83	101	96498	48.778	ug/l	100
10) Methyl Iodide	1.91	142	146190	46.386	ug/l	100
11) Tert butyl alcohol	2.58	59	24716	248.620	ug/l	100
12) 1,1-Dichloroethene	1.80	96	76455	48.541	ug/l	100
13) Acrolein	2.02	56	24244	257.922	ug/l	100
14) Allyl chloride	2.12	41	108353m	39.520	ug/l	
15) Acrylonitrile	2.97	53	52592	247.638	ug/l	100
16) Acetone	2.26	43	108345	238.419	ug/l	100
17) Carbon Disulfide	1.85	76	199661	43.190	ug/l	100
18) Methyl Acetate	2.36	43	34790	45.835	ug/l	100
19) Methyl tert-butyl Ether	2.45	73	175373	47.194	ug/l	100
20) Methylene Chloride	2.26	84	73640m	42.089	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	75588	47.122	ug/l	100
22) Diisopropyl ether	2.83	45	265648	50.095	ug/l	100
23) Vinyl Acetate	3.21	43	611132	247.589	ug/l	100
24) 1,1-Dichloroethane	2.90	63	164167	50.639	ug/l	100
25) 2-Butanone	4.37	43	186549	243.368	ug/l	100
26) 2,2-Dichloropropane	3.64	77	104867	42.528	ug/l	100
27) cis-1,2-Dichloroethene	3.51	96	120822	44.331	ug/l	100
28) Bromochloromethane	3.76	49	70912	43.336	ug/l	100
29) Tetrahydrofuran	4.11	42	75462	238.259	ug/l	100
30) Chloroform	3.89	83	237318	46.788	ug/l	100
31) Cyclohexane	3.73	56	154575	40.691	ug/l	100
32) 1,1,1-Trichloroethane	4.13	97	178400	44.804	ug/l	100
36) 1,1-Dichloropropene	4.32	75	175378	49.913	ug/l	100
37) Ethyl Acetate	4.15	43	69980	52.780	ug/l	100
38) Carbon Tetrachloride	4.02	117	168800m	49.396	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112618\
 Data File : VF060829.D
 Acq On : 26 Nov 2018 18:30
 Operator : VA/AP
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Quant Time: Nov 27 01:07:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 00:28:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	apatel
39) Methylcyclohexane	5.49	83	183915	45.916	ug/l	100	
40) Benzene	4.67	78	379089	48.523	ug/l	100	
41) Methacrylonitrile	4.78	41	37196	46.848	ug/l	100	
42) 1,2-Dichloroethane	4.98	62	148749	53.994	ug/l	100	11/27/2018 3:16:55 PM
43) Isopropyl Acetate	6.99	43	92293	52.175	ug/l	100	
44) Trichloroethene	5.54	130	123332	49.443	ug/l	100	
45) 1,2-Dichloropropane	6.27	63	105816	51.136	ug/l	100	
46) Dibromomethane	6.12	93	70584	52.054	ug/l	100	
47) Bromodichloromethane	6.42	83	186678	53.999	ug/l	100	
48) Methyl methacrylate	6.75	41	65075	54.984	ug/l	100	
49) 1,4-Dioxane	6.74	88	10408	963.644	ug/l	100	
51) 4-Methyl-2-Pentanone	8.29	43	315321	249.066	ug/l	100	
52) Toluene	7.66	92	250419	47.750	ug/l	100	
53) t-1,3-Dichloropropene	8.31	75	146320	52.202	ug/l	100	
54) cis-1,3-Dichloropropene	7.34	75	188671	51.487	ug/l	100	
55) 1,1,2-Trichloroethane	8.53	97	78740	52.063	ug/l	100	
56) Ethyl methacrylate	8.65	69	94135	54.209	ug/l	100	
57) 1,3-Dichloropropane	8.89	76	143359	53.755	ug/l	100	
58) 2-Chloroethyl Vinyl ether	7.34	63	43074	272.951	ug/l	100	
59) 2-Hexanone	9.53	43	221686	247.869	ug/l	100	
60) Dibromochloromethane	8.75	129	121455	55.539	ug/l	100	
61) 1,2-Dibromoethane	9.02	107	86037	53.903	ug/l	100	
64) Tetrachloroethene	8.18	164	112138	47.182	ug/l	100	
65) Chlorobenzene	9.83	112	316011	50.897	ug/l	100	
66) 1,1,1,2-Tetrachloroethane	9.97	131	129354	48.654	ug/l	100	
67) Ethyl Benzene	9.93	91	567693	48.819	ug/l	100	
68) m/p-Xylenes	10.17	106	389777	94.124	ug/l	100	
69) o-Xylene	10.75	106	219316	47.285	ug/l	100	
70) Styrene	10.82	104	306450	48.393	ug/l	100	
71) Bromoform	10.81	173	63197	52.317	ug/l	100	
73) Isopropylbenzene	11.15	105	626168	51.119	ug/l	100	
74) N-amyl acetate	11.40	43	144430	51.098	ug/l	100	
75) 1,1,2,2-Tetrachloroethane	11.73	83	104078	51.564	ug/l	100	
76) 1,2,3-Trichloropropane	11.82	75	74921	49.398	ug/l	100	
77) Bromobenzene	11.53	156	143707	55.360	ug/l	100	
78) n-propylbenzene	11.62	91	730888	50.499	ug/l	100	
79) 2-Chlorotoluene	11.75	91	418439	50.305	ug/l	100	
80) 1,3,5-Trimethylbenzene	11.85	105	507433	51.946	ug/l	100	
81) trans-1,4-Dichloro-2-buten	11.89	75	36248m	49.287	ug/l		
82) 4-Chlorotoluene	11.92	91	427214	49.983	ug/l	100	
83) tert-Butylbenzene	12.16	119	509176	49.833	ug/l	100	
84) 1,2,4-Trimethylbenzene	12.23	105	519918	51.365	ug/l	100	
85) sec-Butylbenzene	12.33	105	697203	49.891	ug/l	100	
86) p-Isopropyltoluene	12.49	119	570866	49.209	ug/l	100	
87) 1,3-Dichlorobenzene	12.50	146	256419	50.340	ug/l	100	
88) 1,4-Dichlorobenzene	12.59	146	250902	51.414	ug/l	100	
89) n-Butylbenzene	12.87	91	601339	50.008	ug/l	100	
90) Hexachloroethane	12.94	117	147068	51.747	ug/l	100	
91) 1,2-Dichlorobenzene	12.97	146	250138	51.799	ug/l	100	
92) 1,2-Dibromo-3-Chloropropan	13.67	75	20157	53.172	ug/l	100	

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF112618\
Data File : VF060829.D
Acq On : 26 Nov 2018 18:30
Operator : VA/AP
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 6 Sample Multiplier: 1

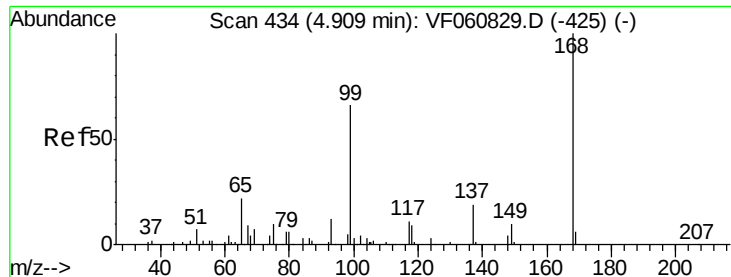
Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Quant Time: Nov 27 01:07:54 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 00:28:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	apatel
93) 1,2,4-Trichlorobenzene	14.22	180	172647	50.509	ug/l	100	
94) Hexachlorobutadiene	14.21	225	113677	51.262	ug/l	100	
95) Naphthalene	14.48	128	341737	54.658	ug/l	100	
96) 1,2,3-Trichlorobenzene	14.63	180	161000	51.413	ug/l	100	11/27/2018 3:16:55 PM

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:168 Resp: 194403

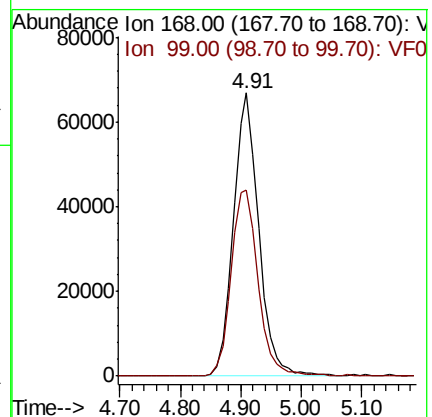
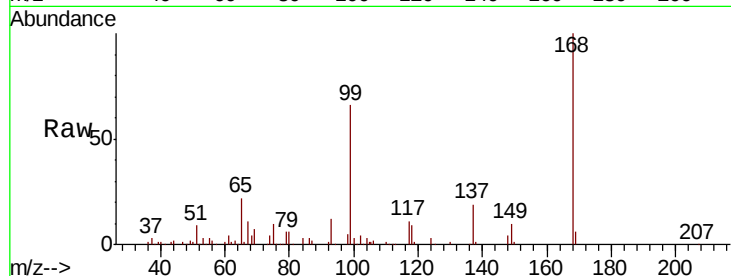
Ion Ratio Lower Upper

168 100

99 65.8 52.6 79.0

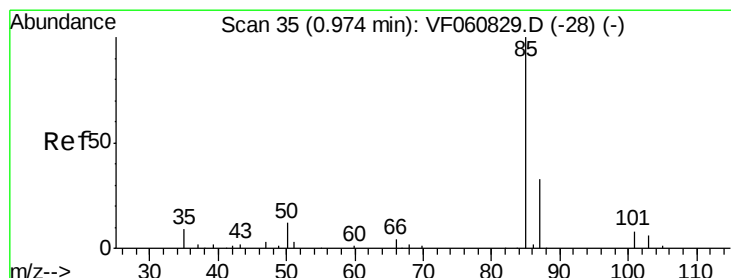
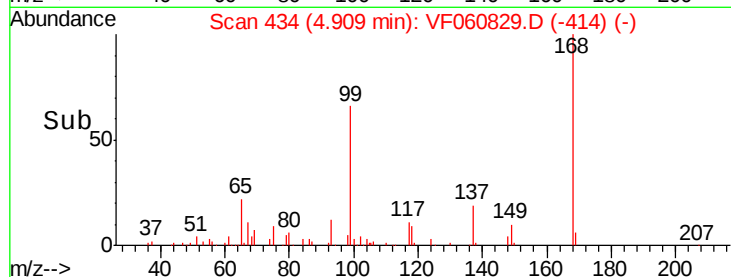
Manual Integrations

APPROVED



apatel

11/27/2018 3:16:55 PM



#2

Dichlorodifluoromethane

Concen: 42.893 ug/l

RT: 0.97 min Scan# 35

Delta R.T. 0.00 min

Lab File: VF060829.D

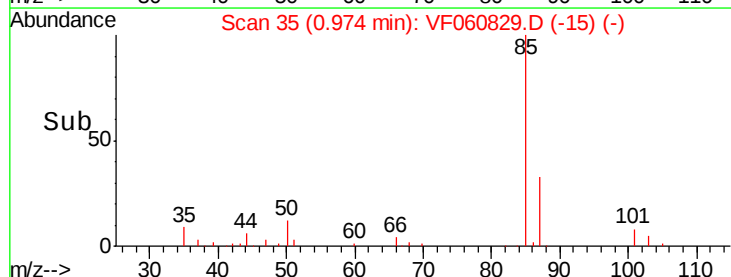
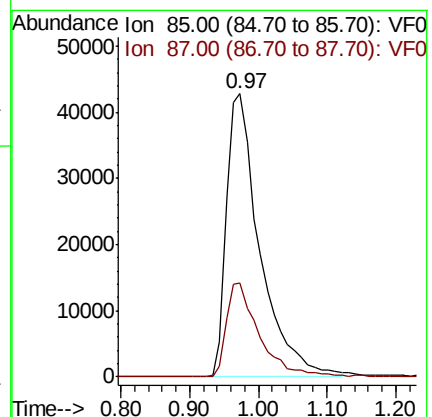
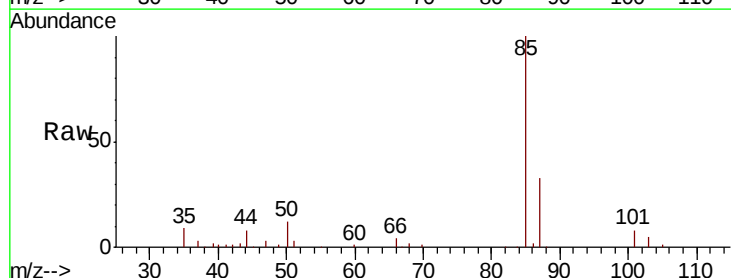
Acq: 26 Nov 2018 18:30

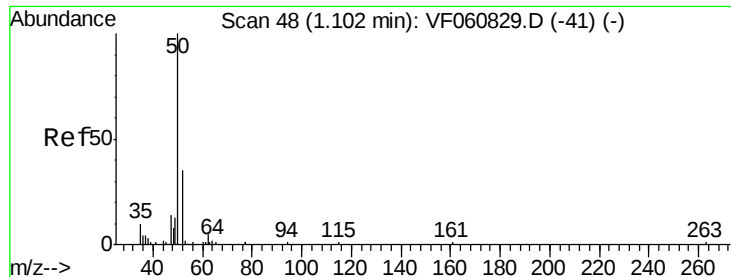
Tgt Ion: 85 Resp: 143942

Ion Ratio Lower Upper

85 100

87 33.3 16.7 50.0





#3

Chloromethane

Concen: 41.154 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

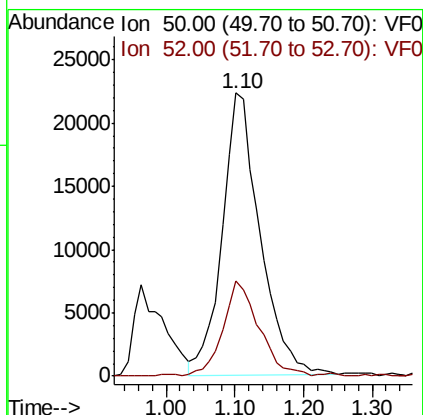
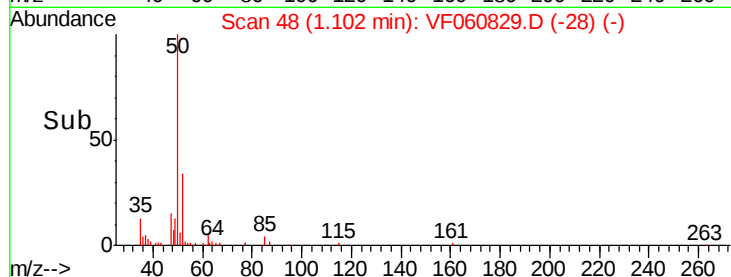
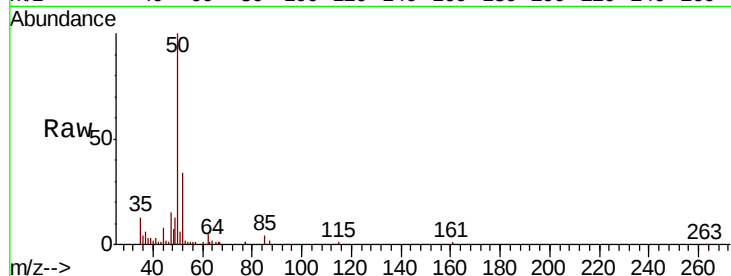
Tot Ion: 50 Resp: 84785

Ion Ratio Lower Upper

50 100

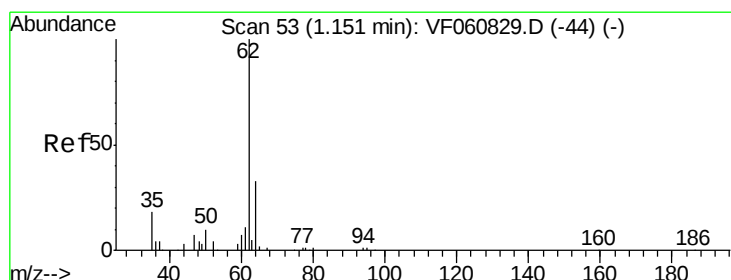
52 33.7 27.0 40.4

Manual Integrations
APPROVED



apatel

11/27/2018 3:16:55 PM



#4

Vinyl Chloride

Concen: 45.740 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.00 min

Lab File: VF060829.D

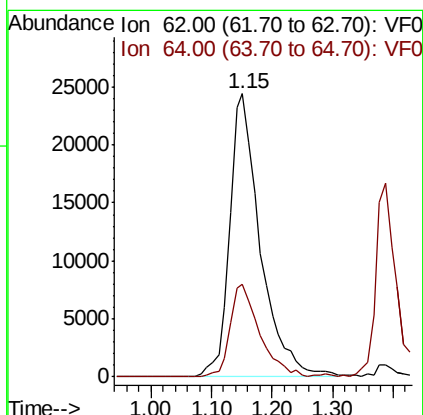
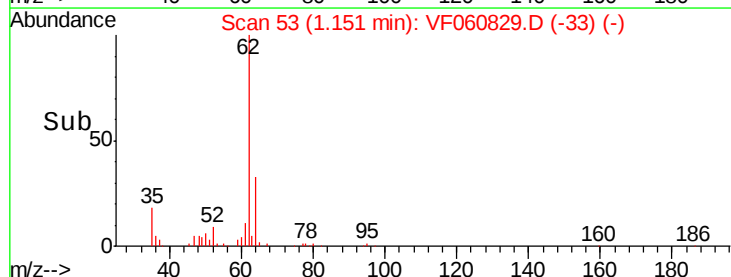
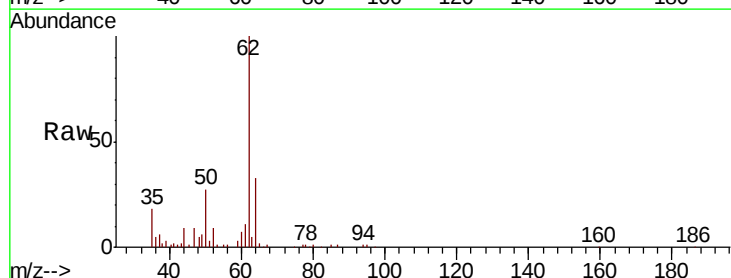
Acq: 26 Nov 2018 18:30

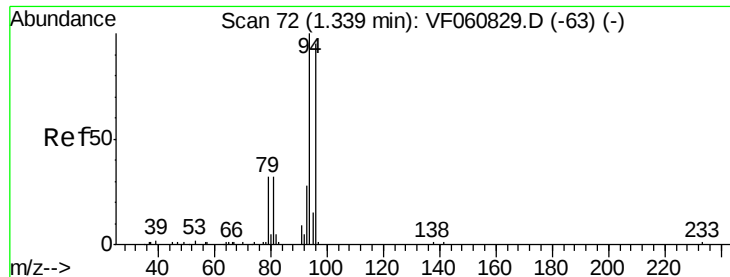
Tgt Ion: 62 Resp: 85698

Ion Ratio Lower Upper

62 100

64 33.0 26.4 39.6





#5

Bromomethane

Concen: 52.769 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

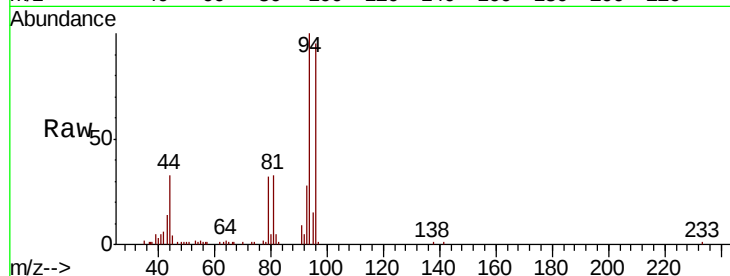
Tot Ion: 94 Resp: 64022

Ion Ratio Lower Upper

94 100

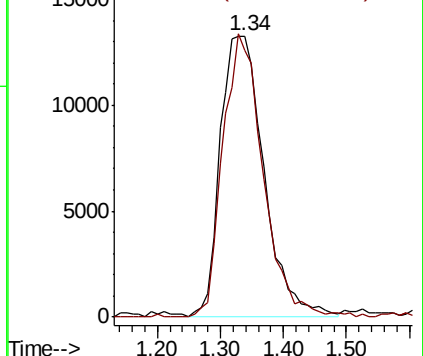
96 94.9 75.9 113.9

Manual Integrations
APPROVED



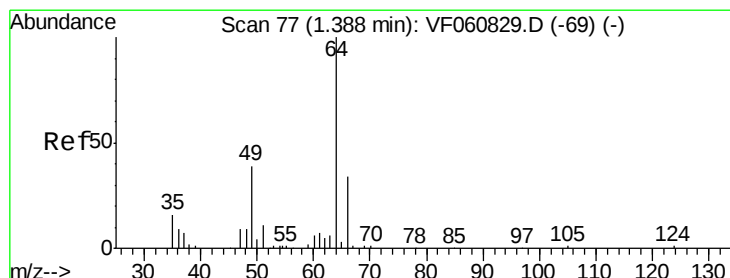
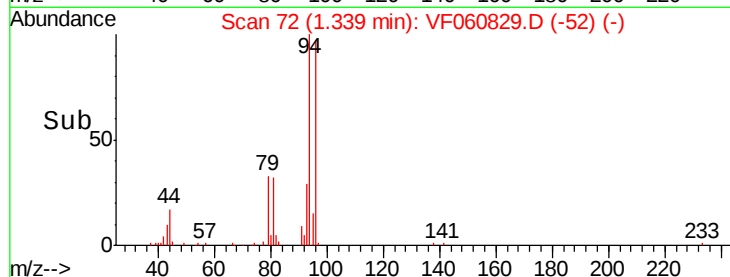
Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



apatel

11/27/2018 3:16:55 PM



#6

Chloroethane

Concen: 54.261 ug/l

RT: 1.39 min Scan# 77

Delta R.T. 0.00 min

Lab File: VF060829.D

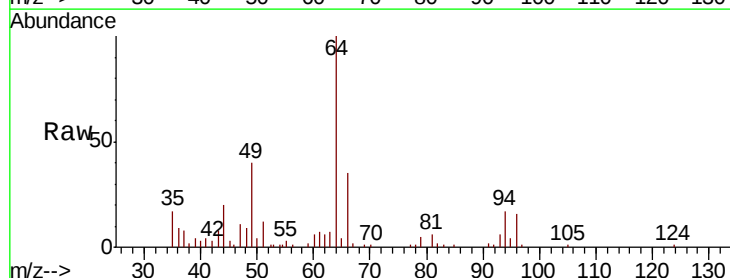
Acq: 26 Nov 2018 18:30

Tgt Ion: 64 Resp: 39785

Ion Ratio Lower Upper

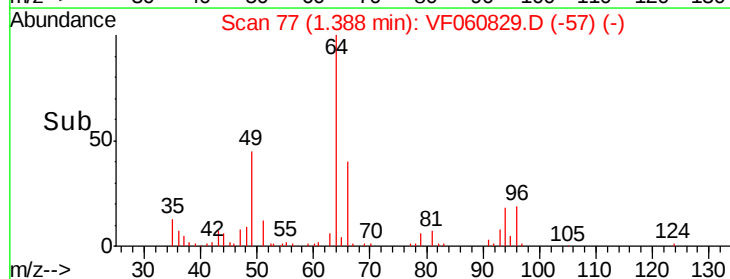
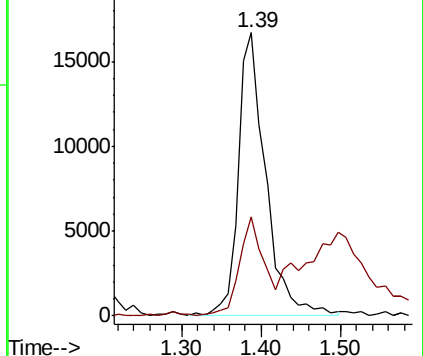
64 100

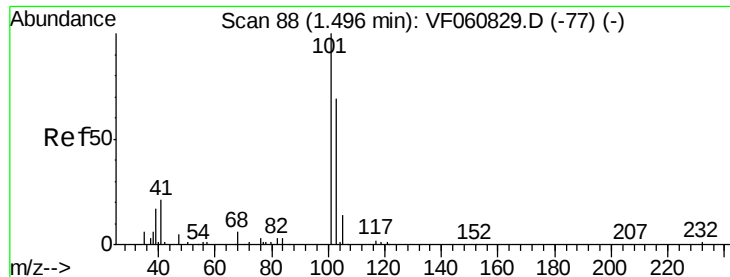
66 35.1 28.1 42.1



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





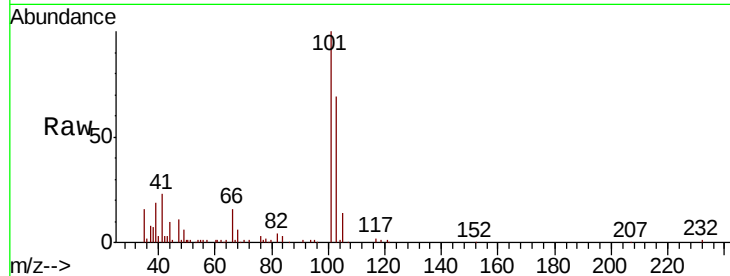
#7

Trichlorofluoromethane
Concen: 47.227 ug/l
RT: 1.50 min Scan# 88
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

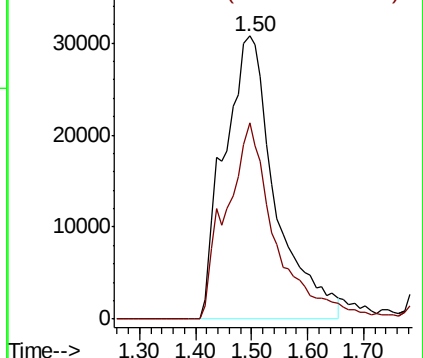
Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	69.2	55.4	83.0

Manual Integrations
APPROVED

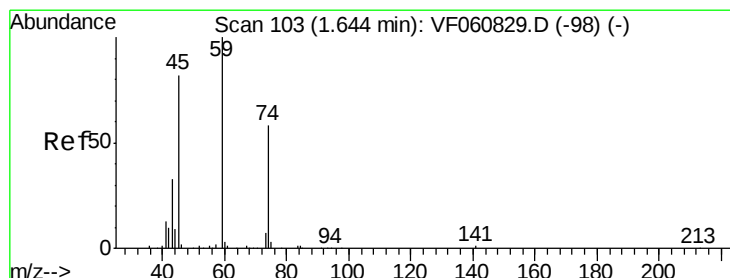
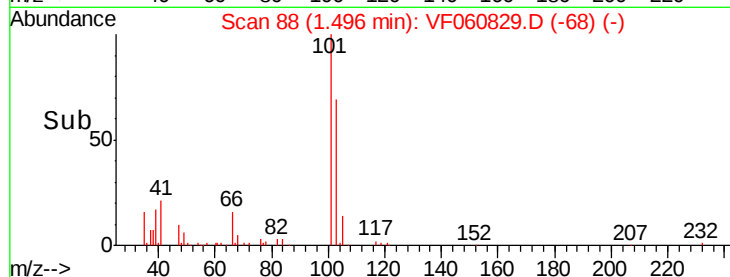


Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



apatel

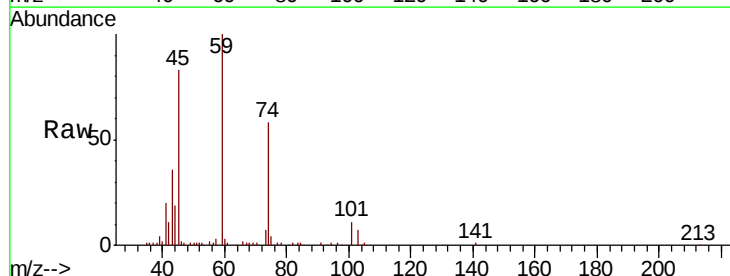
11/27/2018 3:16:55 PM



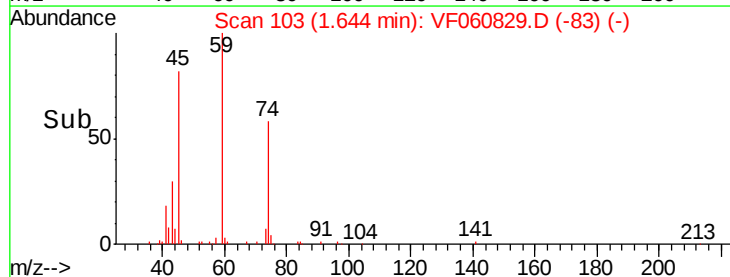
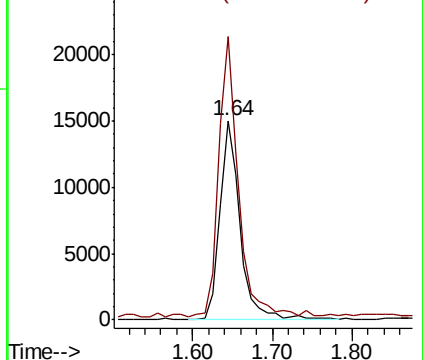
#8

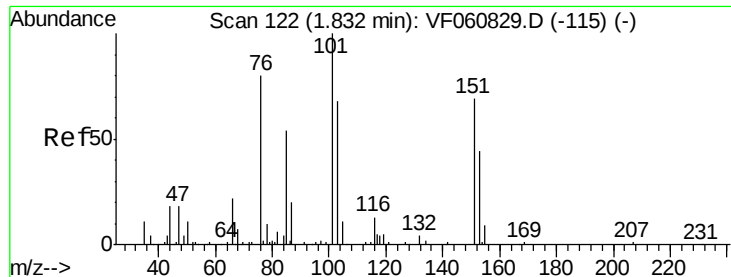
Diethyl Ether
Concen: 50.302 ug/l
RT: 1.64 min Scan# 103
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
74	100		
45	141.9	71.0	212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0
Ion 45.00 (44.70 to 45.70): VF0



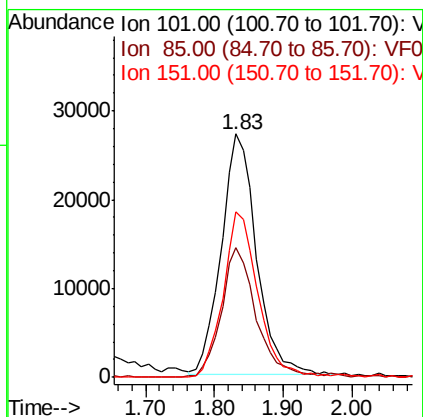
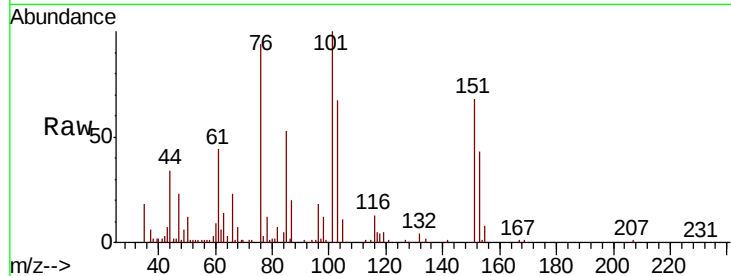


#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 48.778 ug/l
 RT: 1.83 min Scan# 122
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

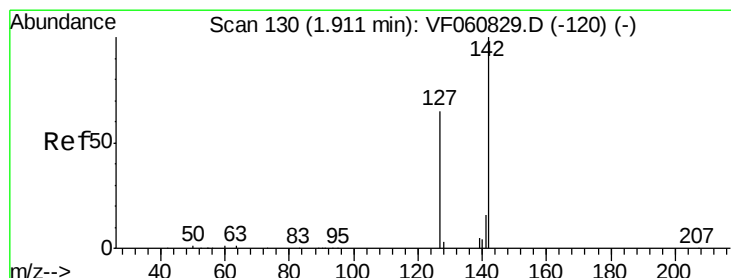
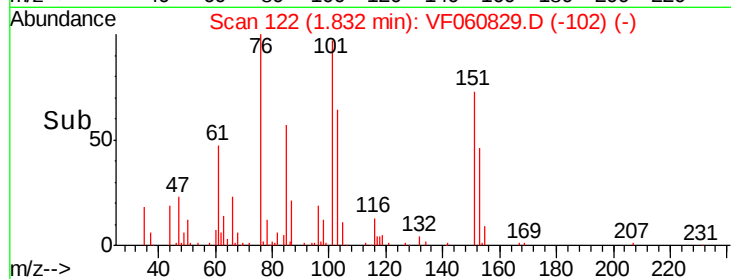
Tot Ion	Ratio	Lower	Upper
101	100		
85	53.5	42.8	64.2
151	68.0	54.4	81.6

Manual Integrations
 APPROVED



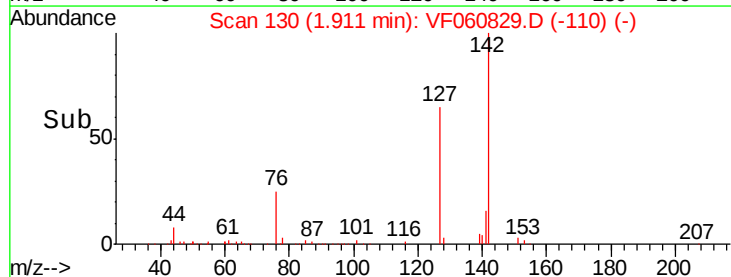
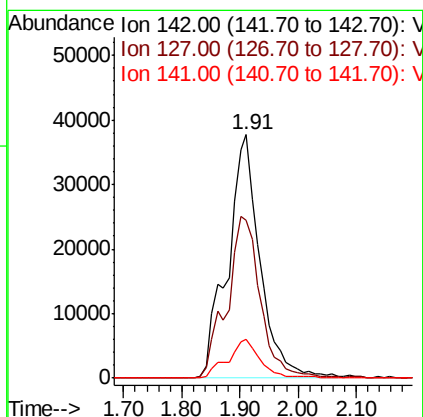
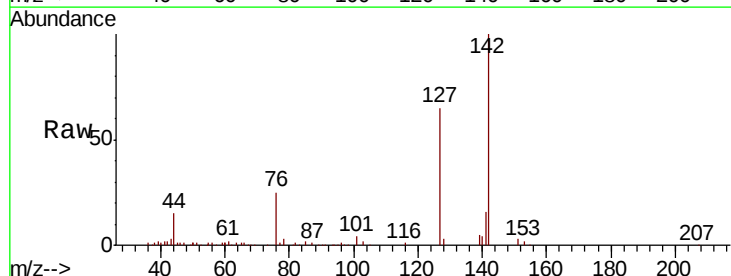
apatel

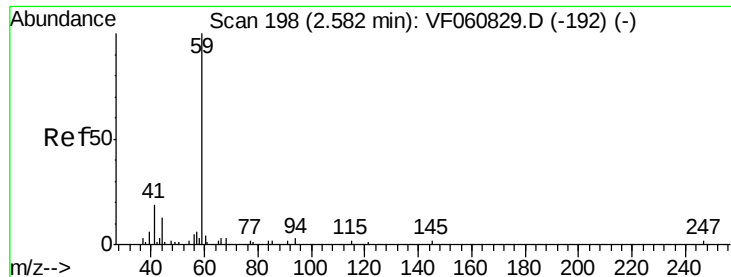
11/27/2018 3:16:55 PM



#10
 Methyl Iodide
 Concen: 46.386 ug/l
 RT: 1.91 min Scan# 130
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
142	100		
127	64.9	51.9	77.9
141	15.9	12.7	19.1





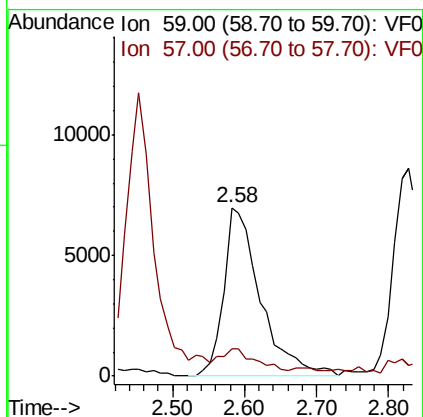
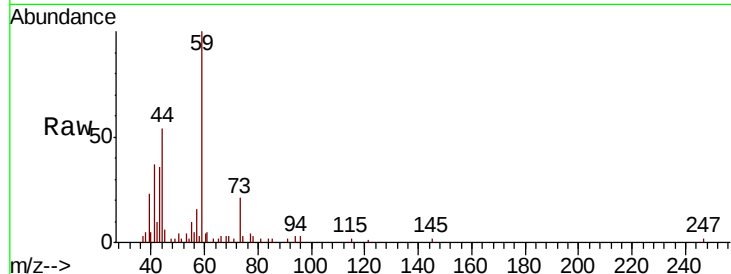
#11

Tert butyl alcohol
Concen: 248.620 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampled :
VSTDICCC050

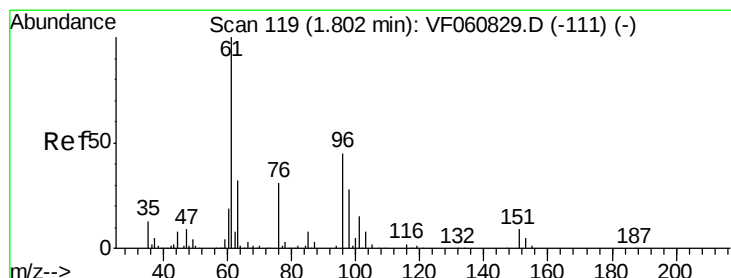
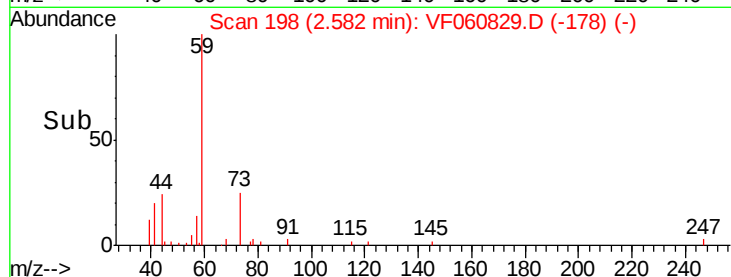
Tot Ion	59	Resp	24716
Ion Ratio	100	Lower	Upper
57	15.9	12.7	19.1

Manual Integrations
APPROVED



apatel

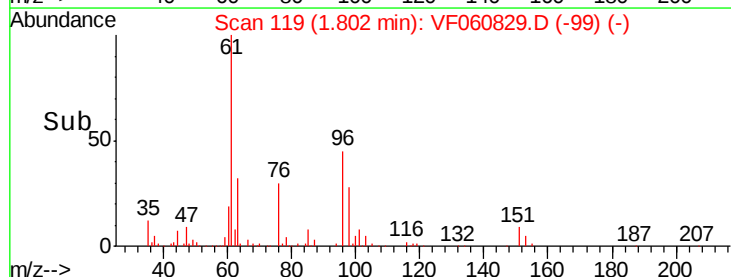
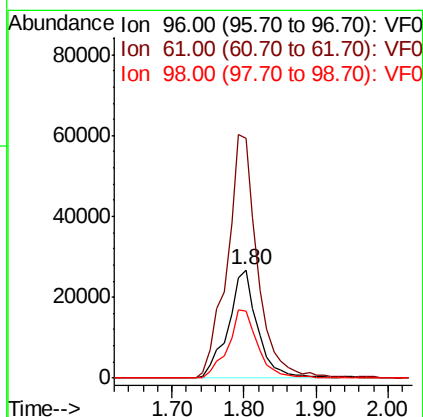
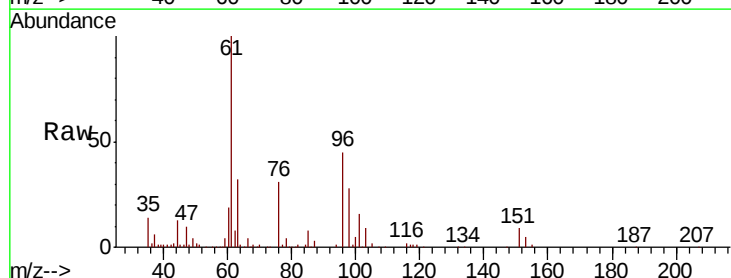
11/27/2018 3:16:55 PM

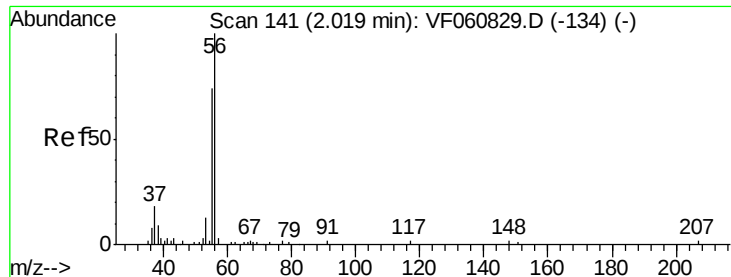


#12

1,1-Dichloroethene
Concen: 48.541 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	96	Resp	76455
Ion Ratio	100	Lower	Upper
61	221.6	177.3	265.9
98	62.0	49.6	74.4





#13

Acrolein

Concen: 257.922 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 56 Resp: 24244

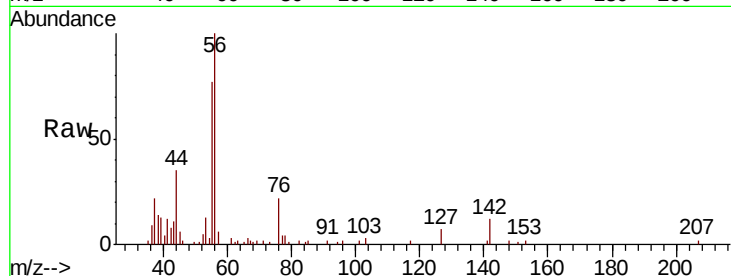
Ion Ratio Lower Upper

56 100

55 76.5 61.2 91.8

Manual Integrations

APPROVED



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.02

10000

8000

6000

4000

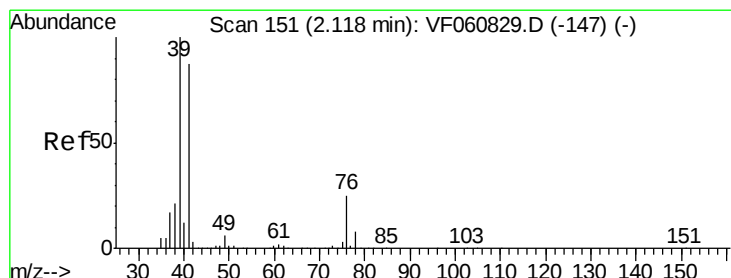
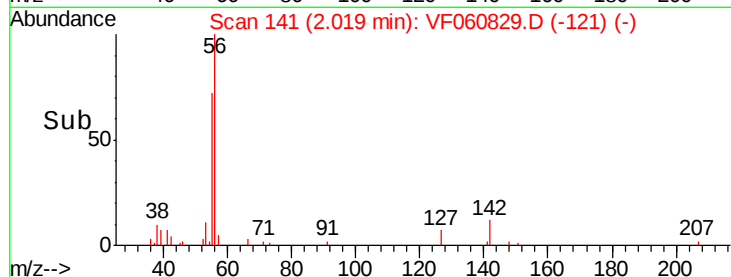
2000

0

Time-->

apatel

11/27/2018 3:16:55 PM



#14

Allyl chloride

Concen: 39.520 ug/l m

RT: 2.12 min Scan# 151

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

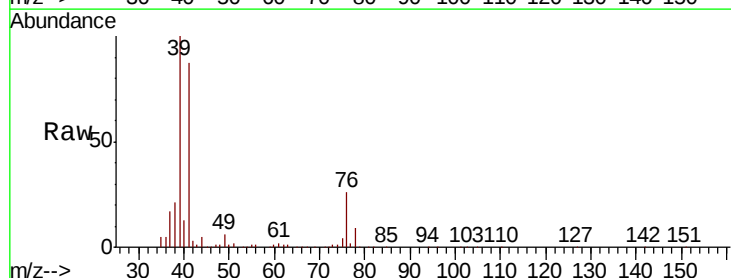
Tgt Ion: 41 Resp: 108353

Ion Ratio Lower Upper

41 100

39 114.6 91.7 137.5

76 29.4 23.5 35.3



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

80000

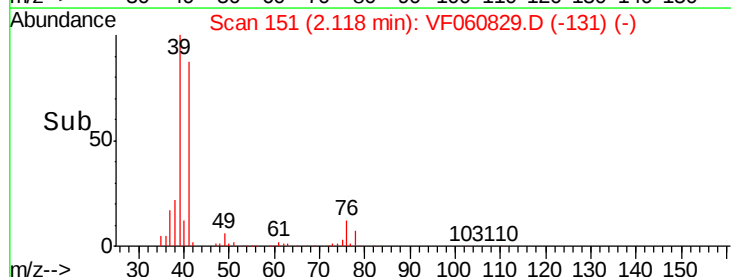
60000

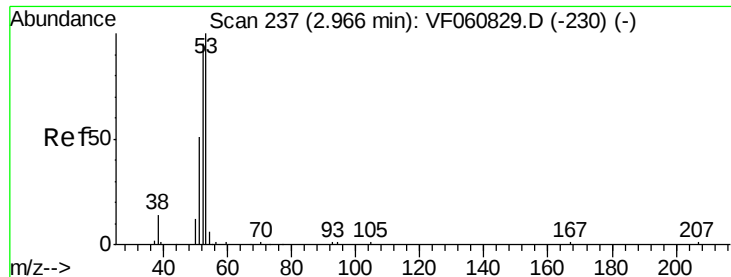
40000

20000

0

Time-->



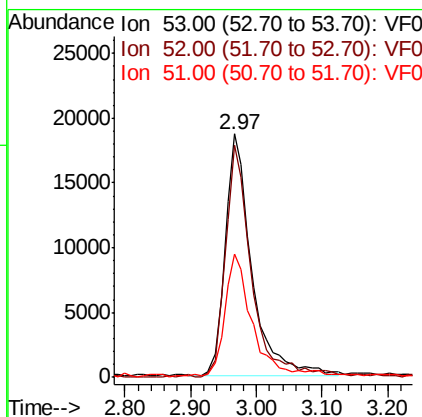
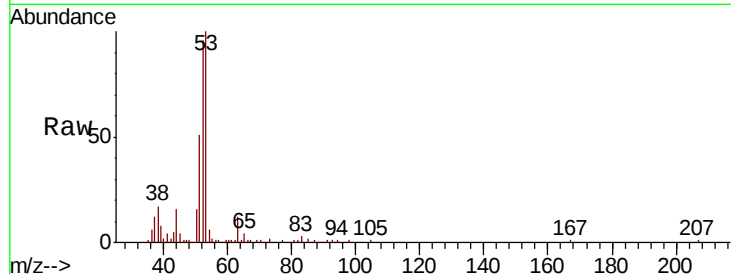


#15
 Acrylonitrile
 Concen: 247.638 ug/l
 RT: 2.97 min Scan# 237
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

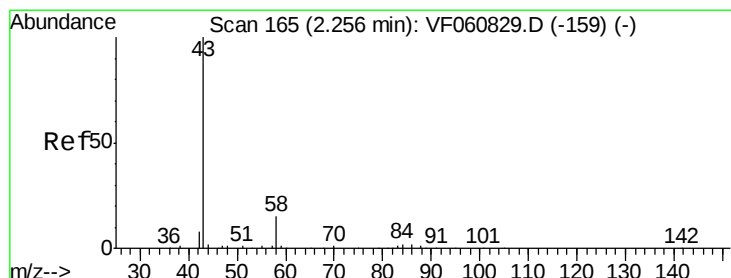
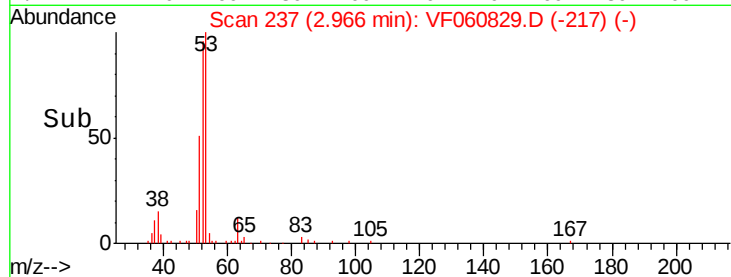
Tot Ion:	53	Resp:	52592
Ion	Ratio	Lower	Upper
53	100		
52	95.6	76.5	114.7
51	50.9	40.7	61.1

Manual Integrations
 APPROVED



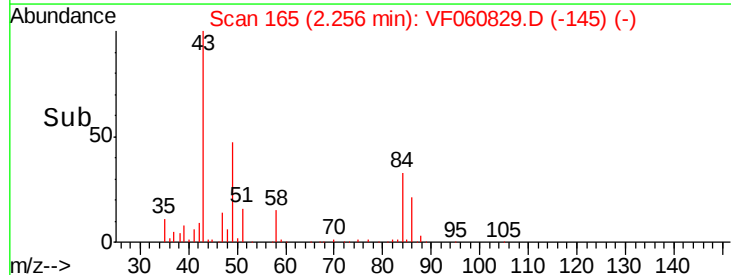
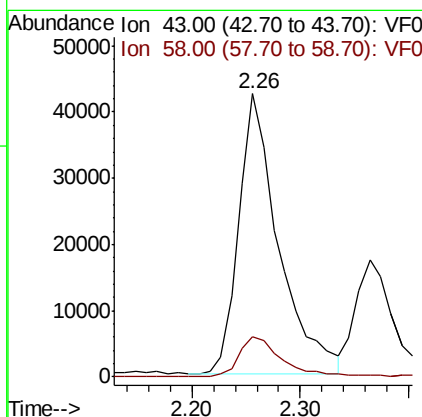
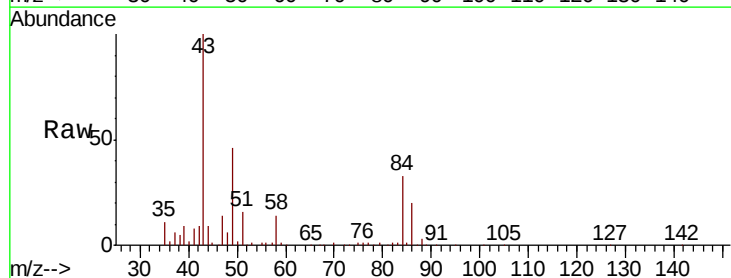
apatel

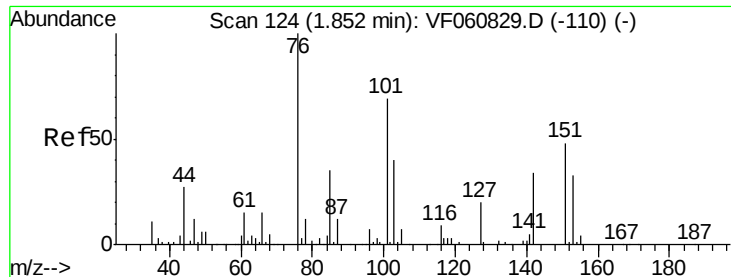
11/27/2018 3:16:55 PM



#16
 Acetone
 Concen: 238.419 ug/l
 RT: 2.26 min Scan# 165
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Tgt Ion:	43	Resp:	108345
Ion	Ratio	Lower	Upper
43	100		
58	14.3	11.4	17.2



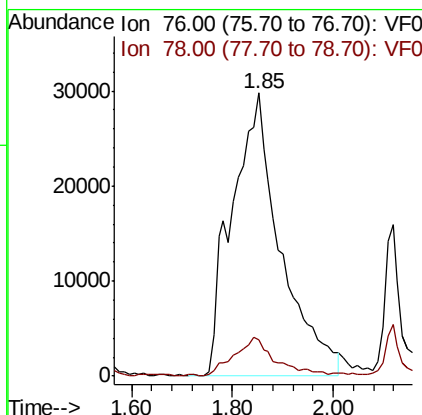
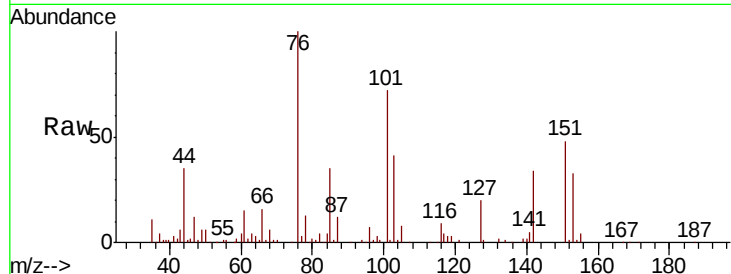


#17
Carbon Disulfide
Concen: 43.190 ug/l
RT: 1.85 min Scan# 124
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

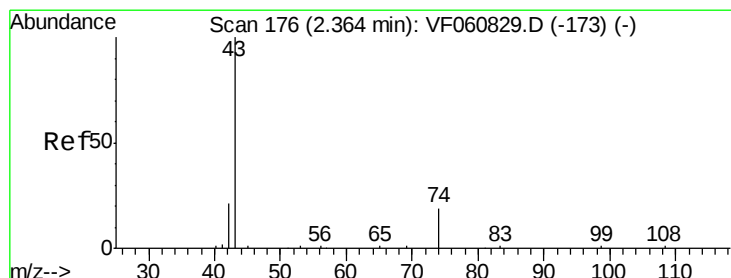
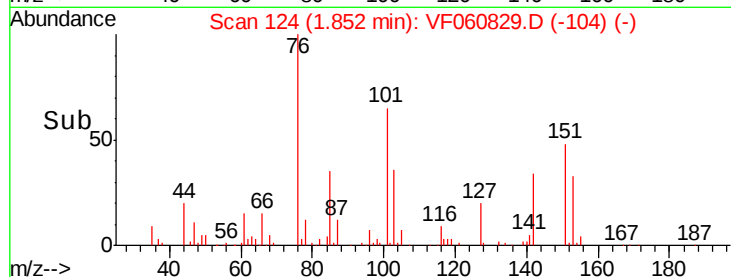
Tot Ion	Ratio	Lower	Upper
76	100		
78	12.7	10.2	15.2

Manual Integrations
APPROVED



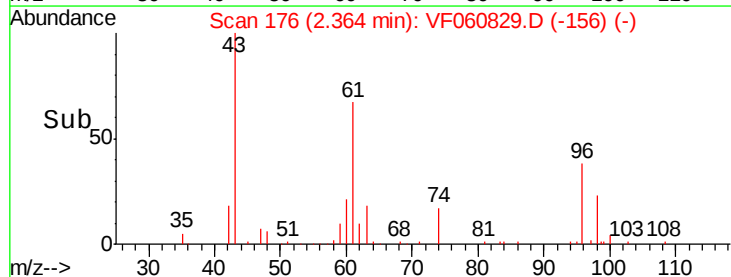
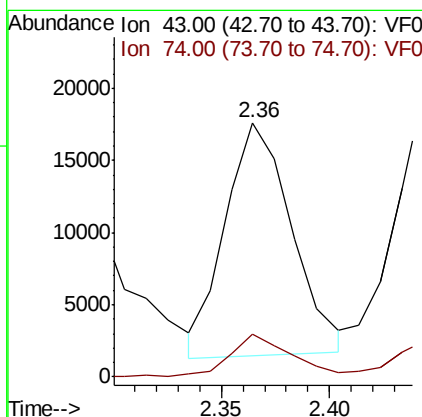
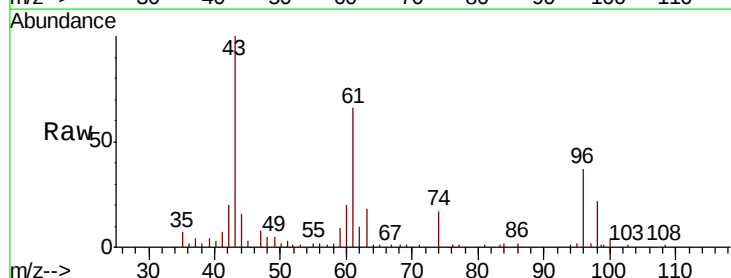
apatel

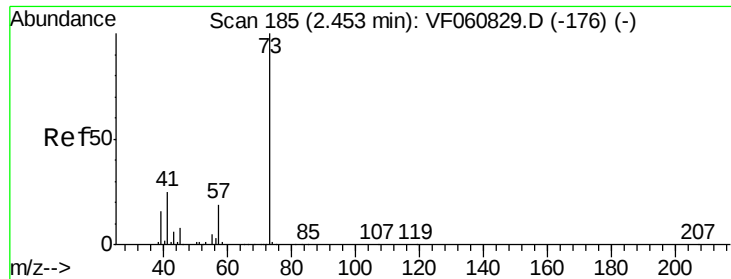
11/27/2018 3:16:55 PM



#18
Methyl Acetate
Concen: 45.835 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
43	100		
74	16.6	13.3	19.9



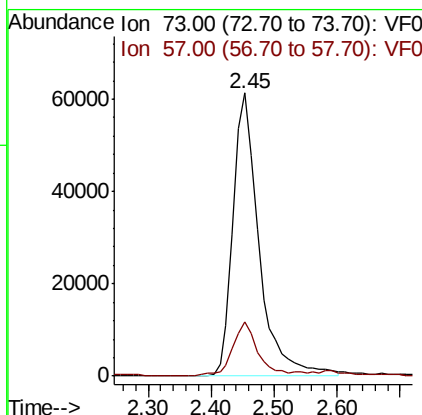
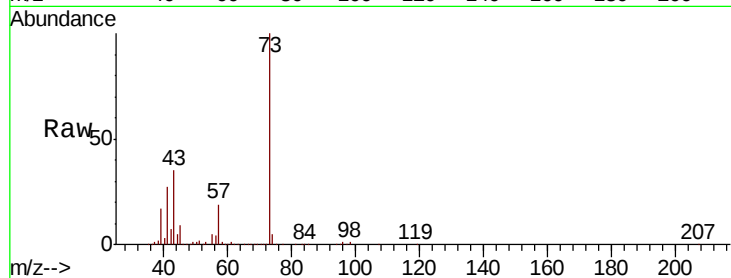


#19
Methvl tert-butvl Ether
Concen: 47.194 ug/l
RT: 2.45 min Scan# 185
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

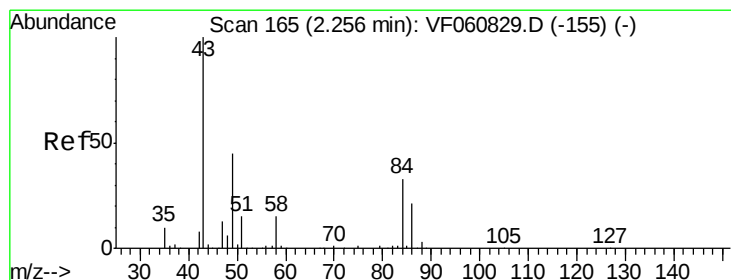
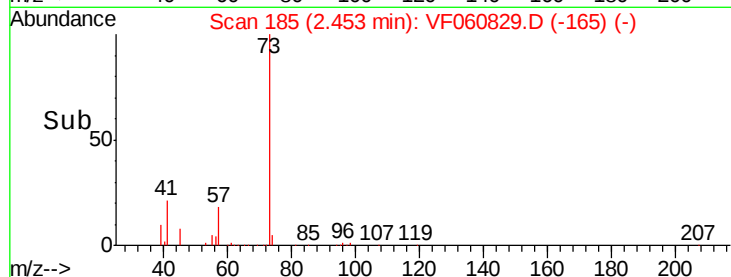
Tot Ion: 73 Resp: 175373
Ion Ratio Lower Upper
73 100
57 19.1 15.3 22.9

Manual Integrations
APPROVED



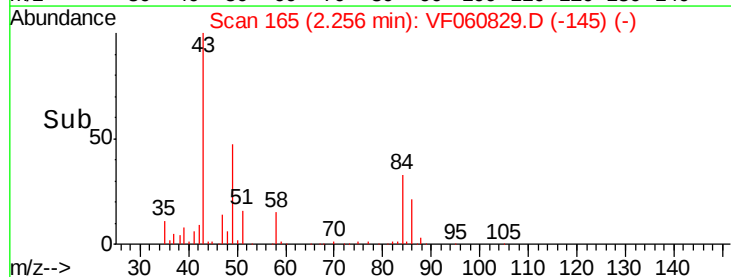
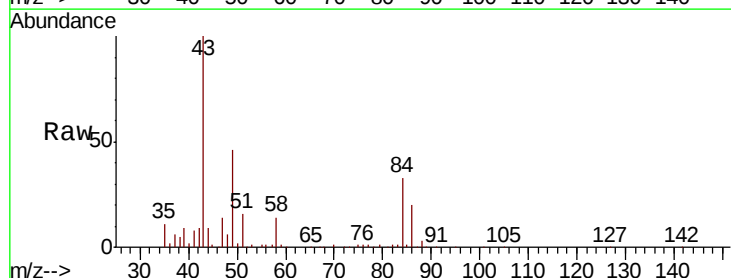
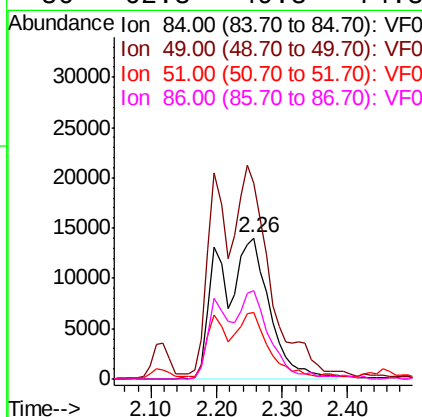
apatel

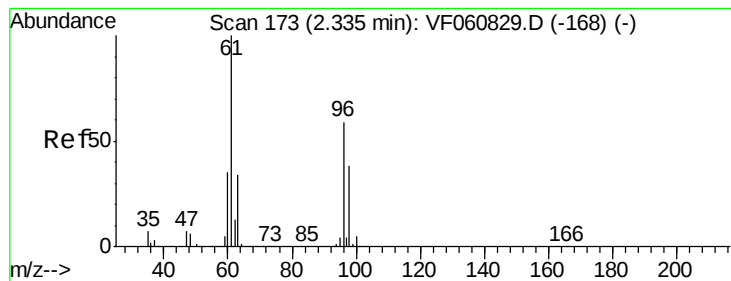
11/27/2018 3:16:55 PM



#20
Methylene Chloride
Concen: 42.089 ug/l m
RT: 2.26 min Scan# 165
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion: 84 Resp: 73640
Ion Ratio Lower Upper
84 100
49 139.1 111.3 166.9
51 47.5 38.0 57.0
86 62.3 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 47.122 ug/l

RT: 2.33 min Scan# 173

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

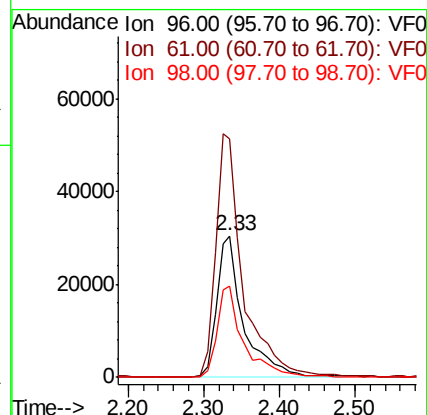
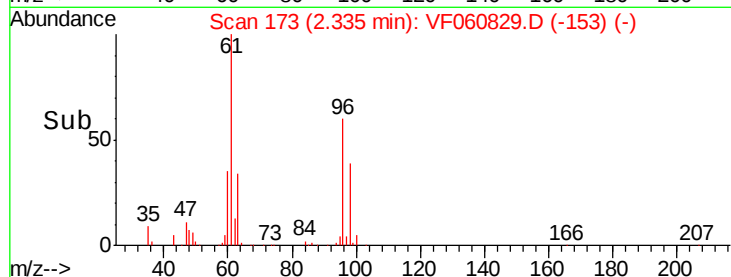
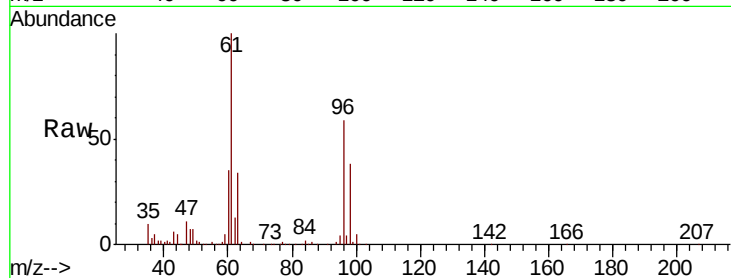
MSVOA_F

ClientSampleId :

VSTDICCC050

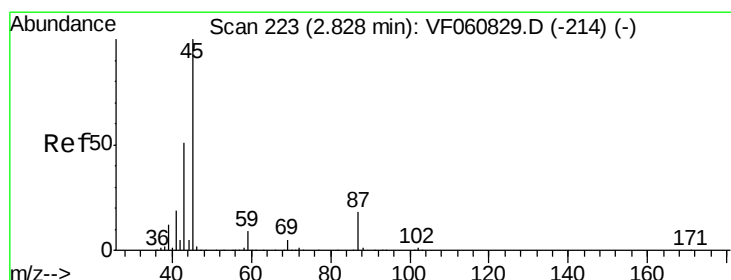
Tot Ion:	96	Resp:	75588
Ion	Ratio	Lower	Upper
96	100		
61	168.1	134.5	201.7
98	64.5	51.6	77.4

Manual Integrations
APPROVED



apatel

11/27/2018 3:16:55 PM



#22

Diisopropyl ether

Concen: 50.095 ug/l

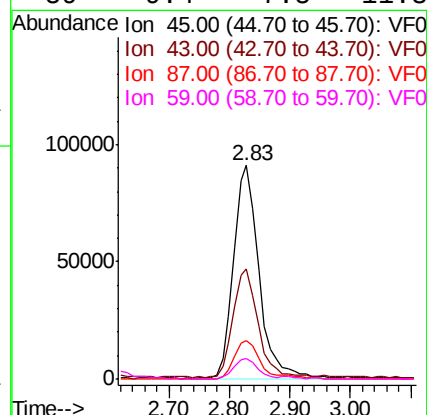
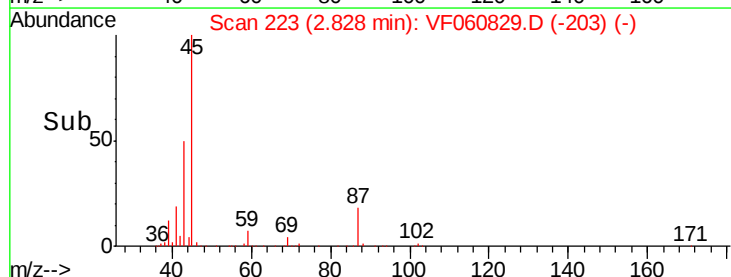
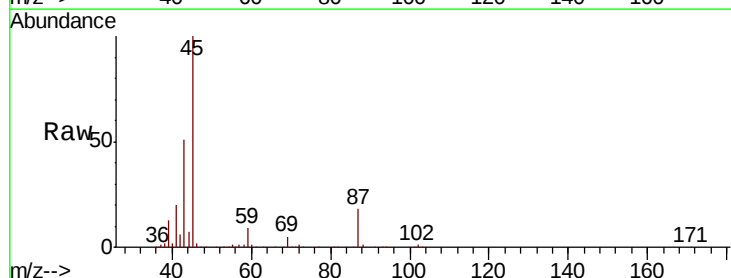
RT: 2.83 min Scan# 223

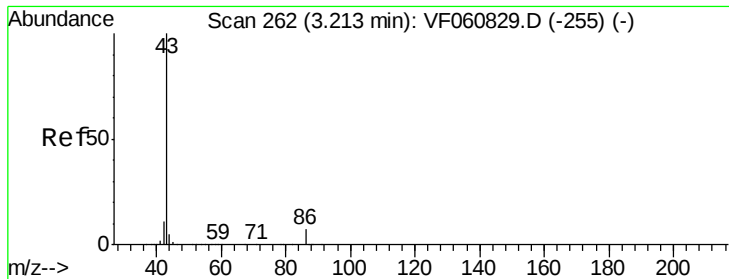
Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tgt Ion:	45	Resp:	265648
Ion	Ratio	Lower	Upper
45	100		
43	51.3	41.0	61.6
87	18.3	14.6	22.0
59	9.4	7.5	11.3





#23

Vinyl Acetate

Concen: 247.589 ug/l

RT: 3.21 min Scan# 262

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tot Ion: 43 Resp: 611132

Ion Ratio Lower Upper

43 100

86 6.7 5.4 8.0

Instrument :

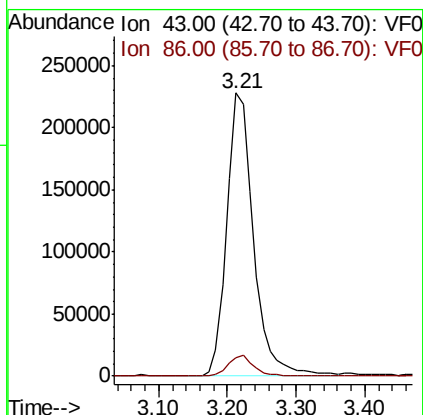
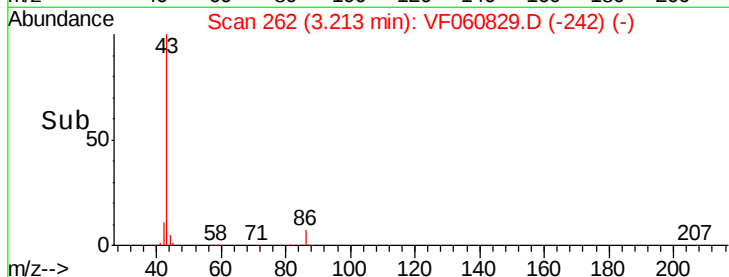
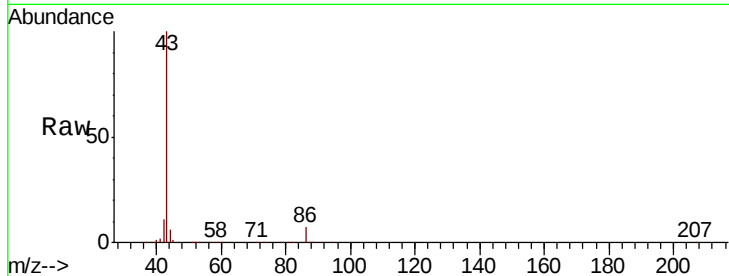
MSVOA_F

ClientSampleId :

VSTDICCC050

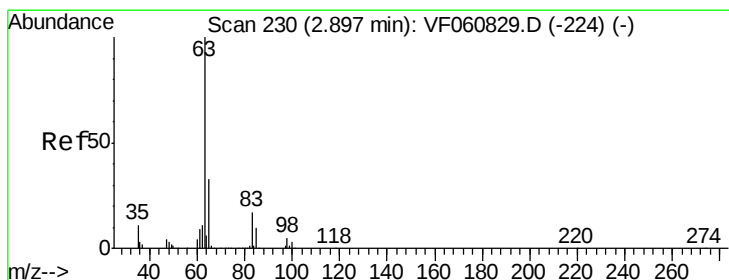
Manual Integrations

APPROVED



apatel

11/27/2018 3:16:55 PM



#24

1,1-Dichloroethane

Concen: 50.639 ug/l

RT: 2.90 min Scan# 230

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

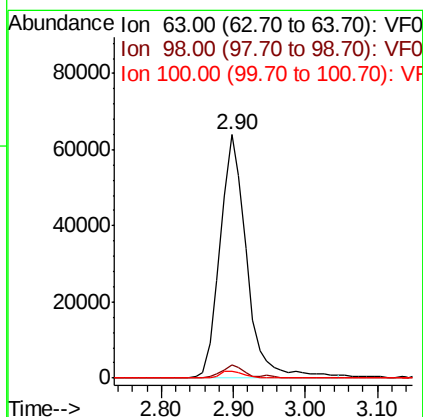
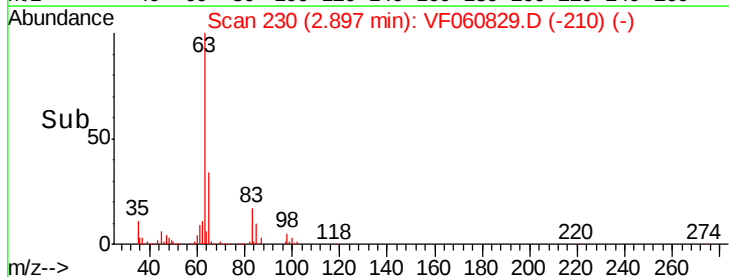
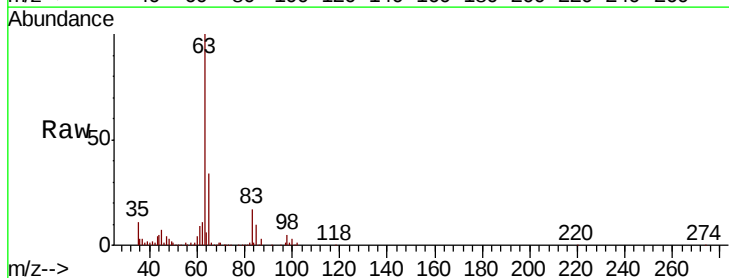
Tgt Ion: 63 Resp: 164167

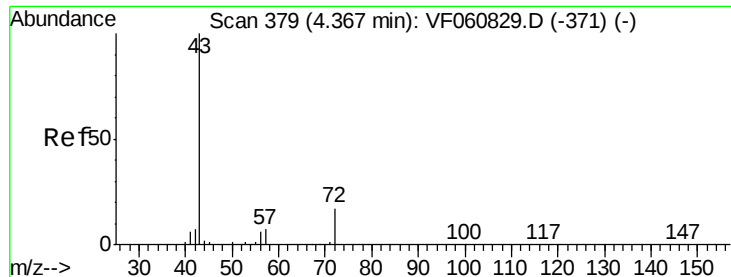
Ion Ratio Lower Upper

63 100

98 5.4 2.7 8.1

100 3.0 1.5 4.5





#25

2-Butanone

Concen: 243.368 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

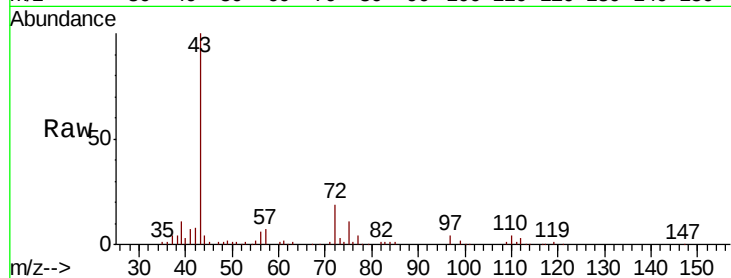
Tot Ion: 43 Resp: 186549

Ion Ratio Lower Upper

43 100

72 19.3 15.4 23.2

Manual Integrations
APPROVED



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.37

50000

40000

30000

20000

10000

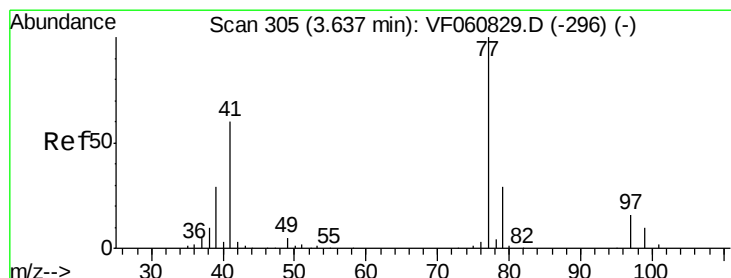
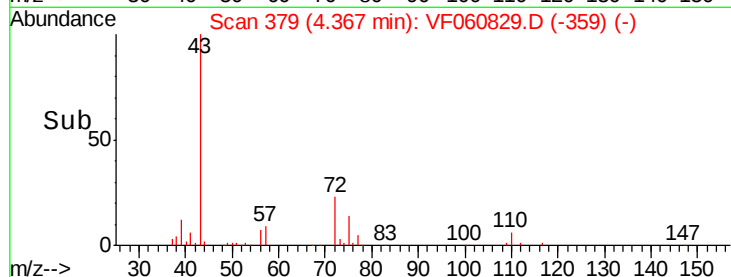
0

Time-->

4.20 4.30 4.40 4.50 4.60

apatel

11/27/2018 3:16:55 PM



#26

2,2-Dichloropropane

Concen: 42.528 ug/l

RT: 3.64 min Scan# 305

Delta R.T. 0.00 min

Lab File: VF060829.D

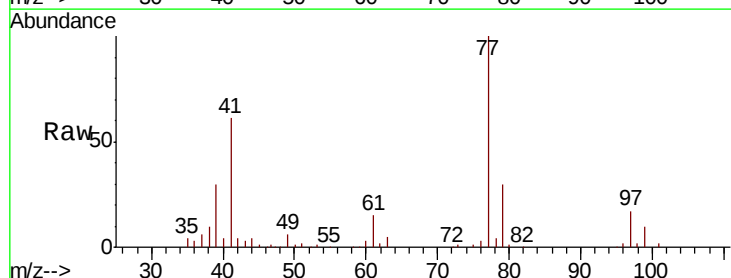
Acq: 26 Nov 2018 18:30

Tgt Ion: 77 Resp: 104867

Ion Ratio Lower Upper

77 100

97 17.2 8.6 25.8



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.64

30000

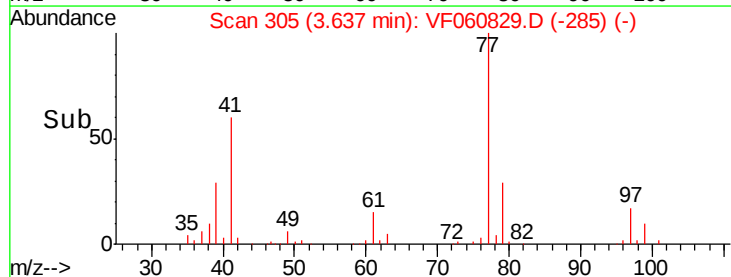
20000

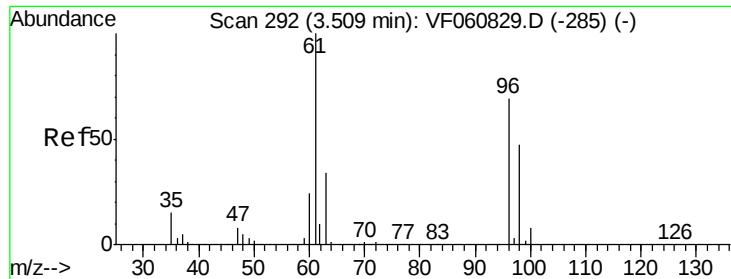
10000

0

Time-->

3.50 3.60 3.70 3.80





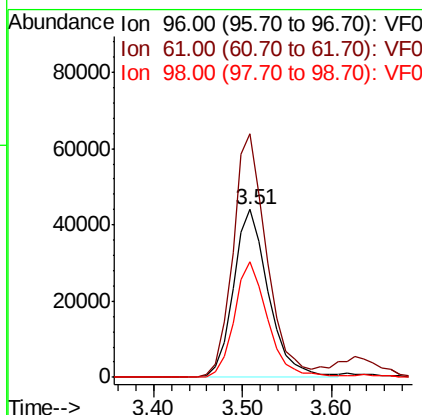
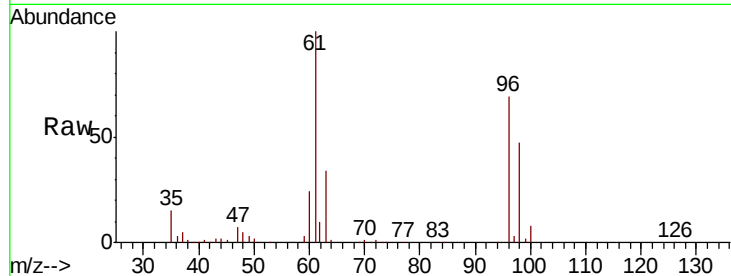
#27

cis-1,2-Dichloroethene
Concen: 44.331 ug/l
RT: 3.51 min Scan# 292
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

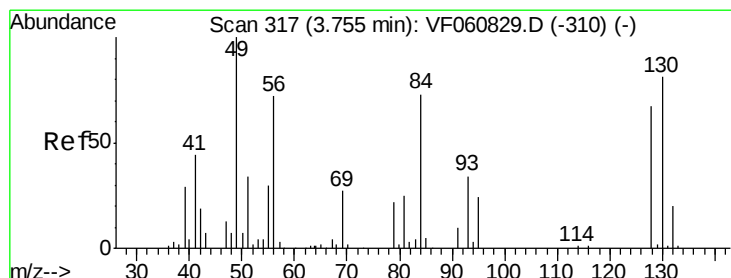
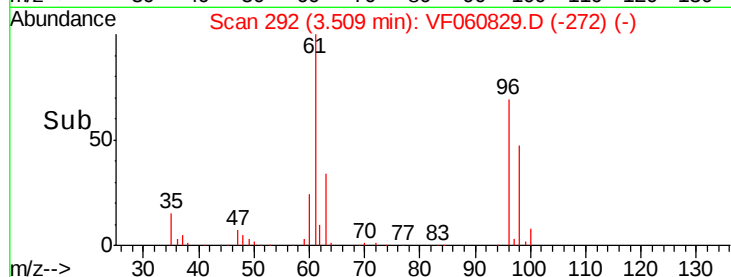
Tot Ion	Ratio	Lower	Upper
96	100		
61	145.3	0.0	290.6
98	68.9	0.0	137.8

Manual Integrations
APPROVED



apatel

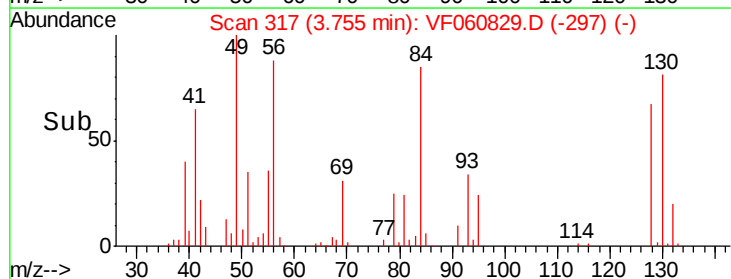
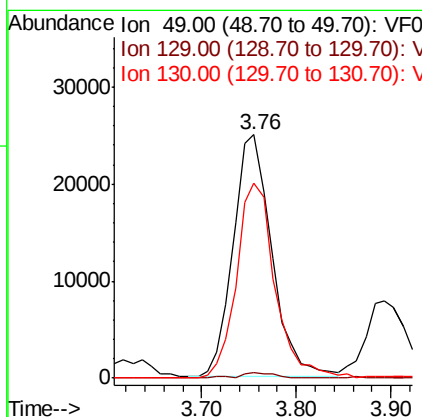
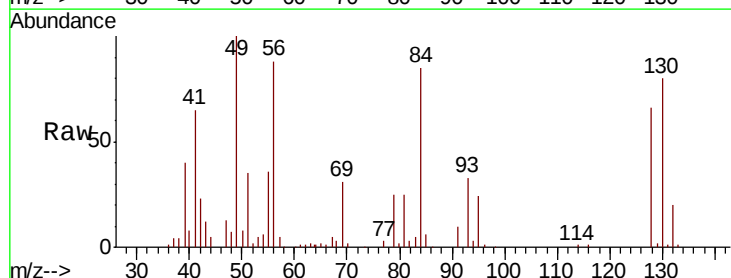
11/27/2018 3:16:55 PM

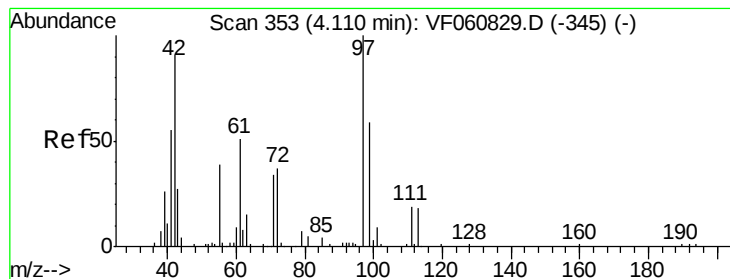


#28

Bromochloromethane
Concen: 43.336 ug/l
RT: 3.76 min Scan# 317
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	80.3	64.2	96.4





#29

Tetrahydrofuran

Concen: 238.259 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

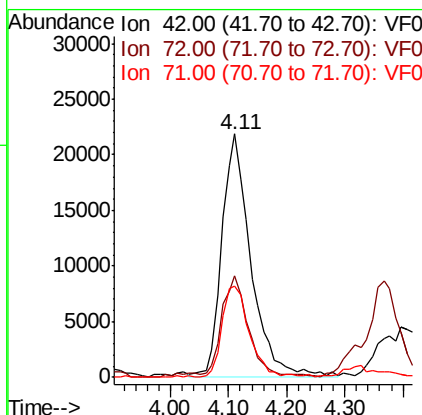
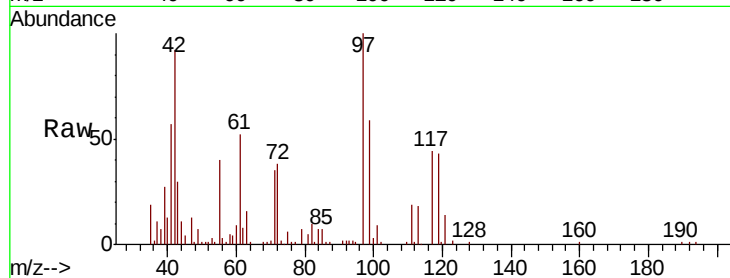
MSVOA_F

ClientSampleId :

VSTDICCC050

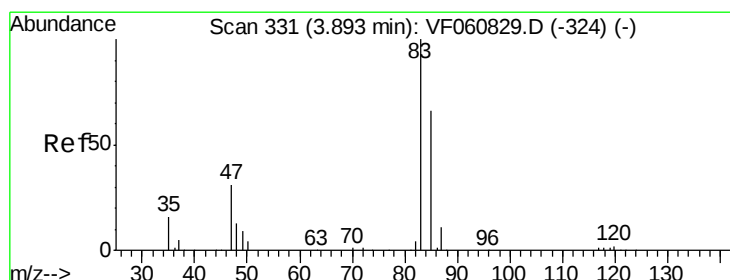
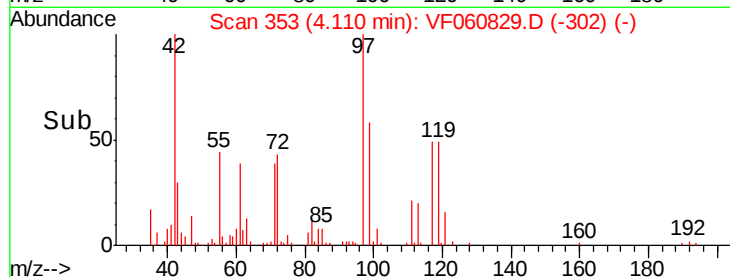
Tot Ion:	42	Resp:	75462
Ion	Ratio	Lower	Upper
42	100		
72	39.9	31.9	47.9
71	35.9	28.7	43.1

Manual Integrations
APPROVED



apatel

11/27/2018 3:16:55 PM



#30

Chloroform

Concen: 46.788 ug/l

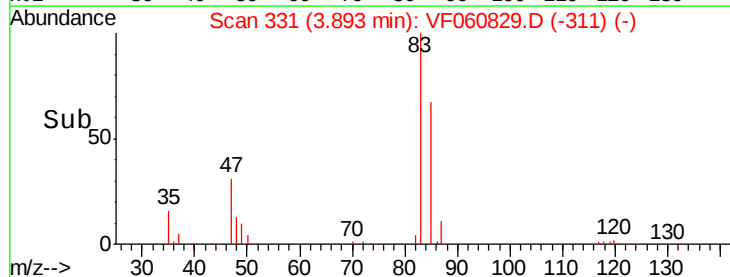
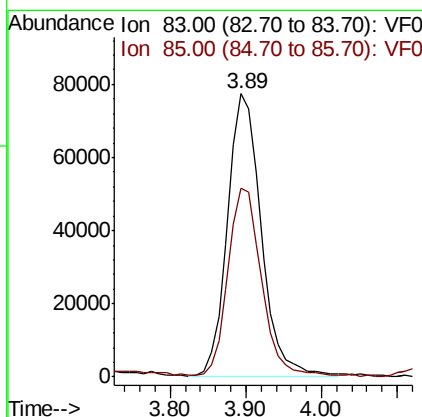
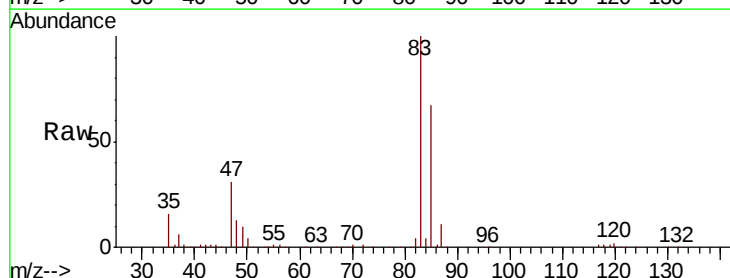
RT: 3.89 min Scan# 331

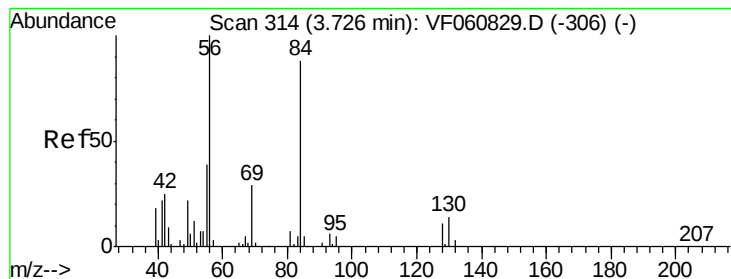
Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tgt Ion:	83	Resp:	237318
Ion	Ratio	Lower	Upper
83	100		
85	66.8	53.4	80.2





#31

Cyclohexane

Concen: 40.691 ug/l

RT: 3.73 min Scan# 314

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

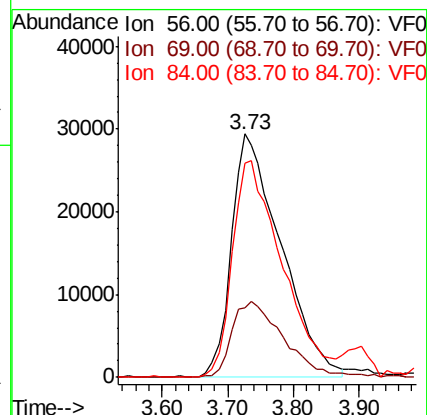
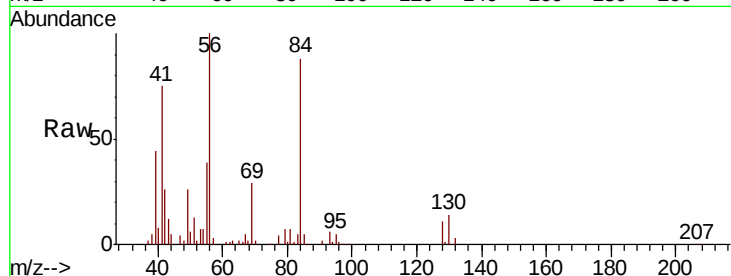
MSVOA_F

ClientSampleId :

VSTDICCC050

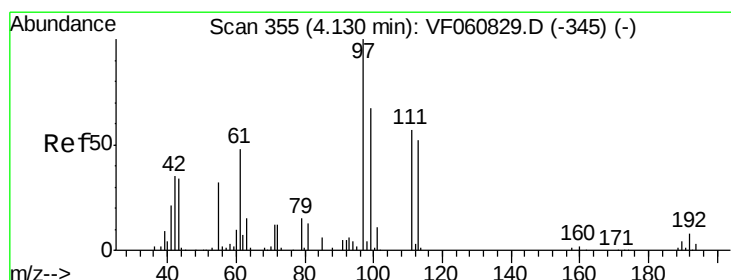
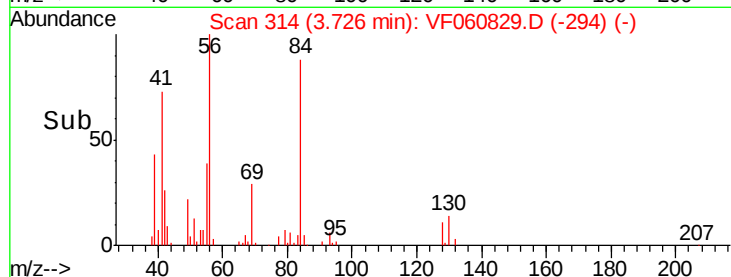
Tot Ion:	56	Resp:	154575
Ion	Ratio	Lower	Upper
56	100		
69	28.7	23.0	34.4
84	88.0	70.4	105.6

Manual Integrations
APPROVED



apatel

11/27/2018 3:16:55 PM



#32

1,1,1-Trichloroethane

Concen: 44.804 ug/l

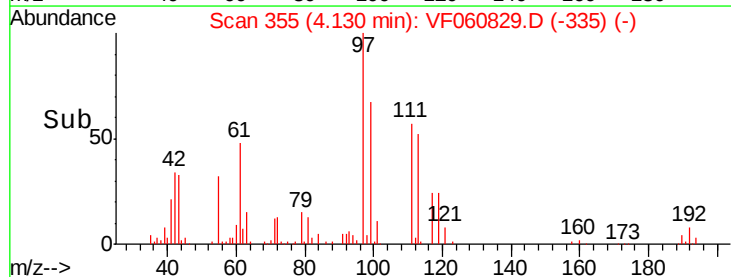
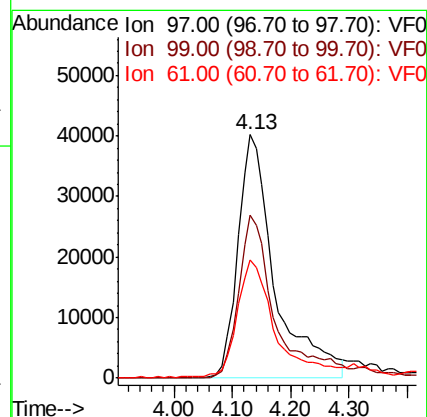
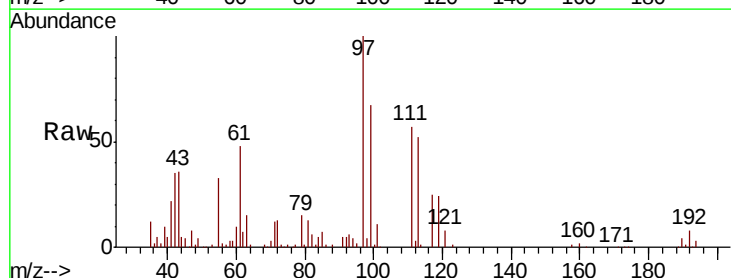
RT: 4.13 min Scan# 355

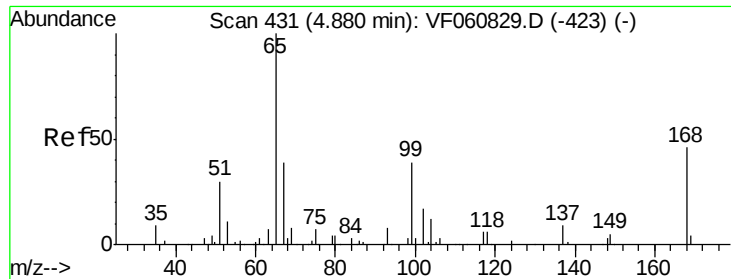
Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tgt Ion:	97	Resp:	178400
Ion	Ratio	Lower	Upper
97	100		
99	66.9	53.5	80.3
61	48.3	38.6	58.0





#33

1,2-Dichloroethane-d4

Concen: 53.211 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tot Ion: 65 Resp: 119826

Ion Ratio Lower Upper

65 100

67 48.2 0.0 96.4

Instrument :

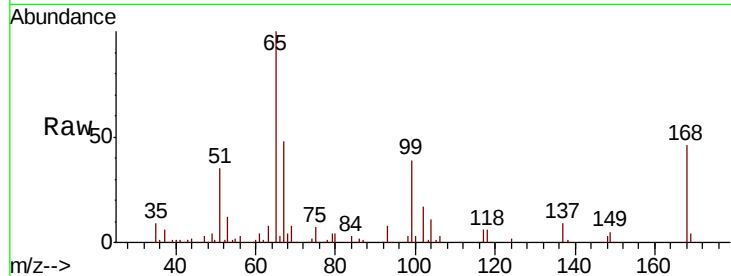
MSVOA_F

ClientSampled :

VSTDICCC050

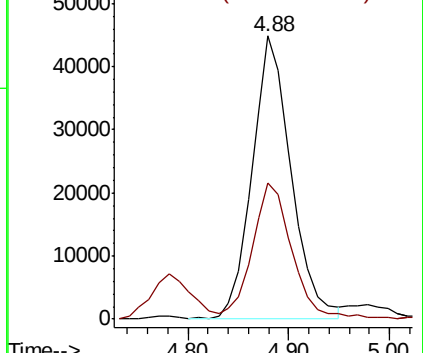
Manual Integrations

APPROVED



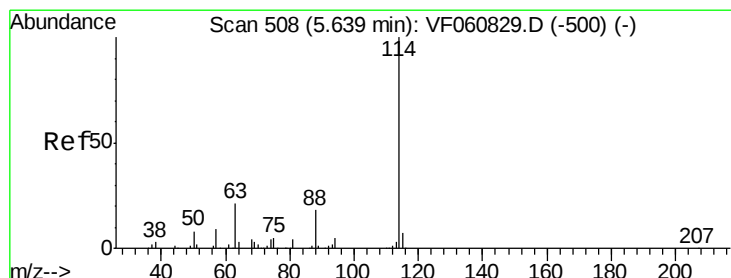
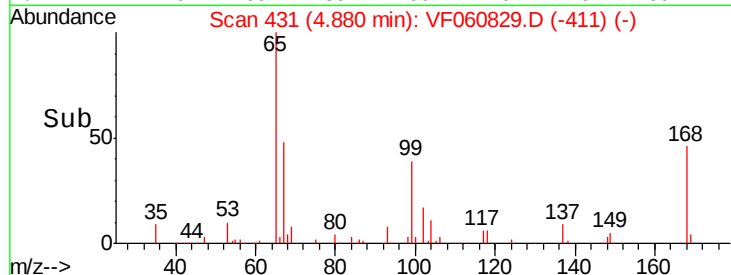
Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



apatel

11/27/2018 3:16:55 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 508

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

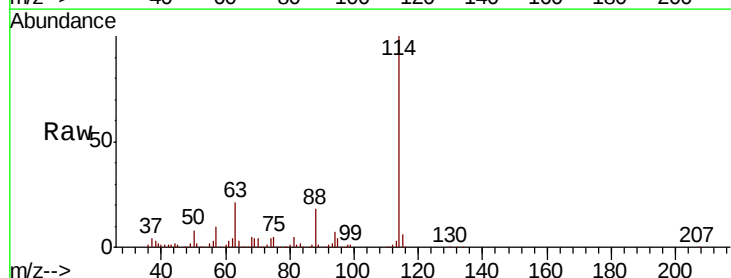
Tgt Ion: 114 Resp: 304514

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.6

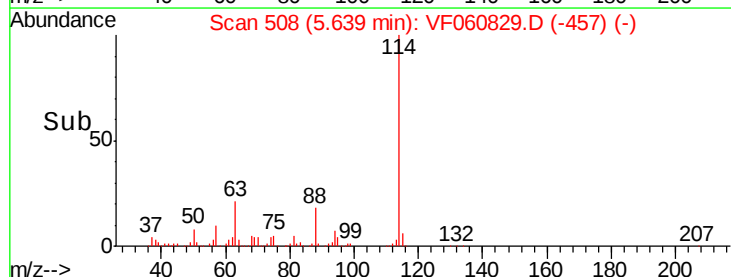
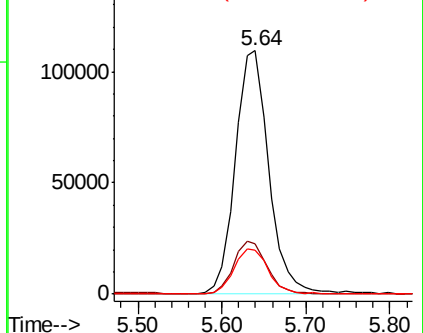
88 18.3 0.0 36.6

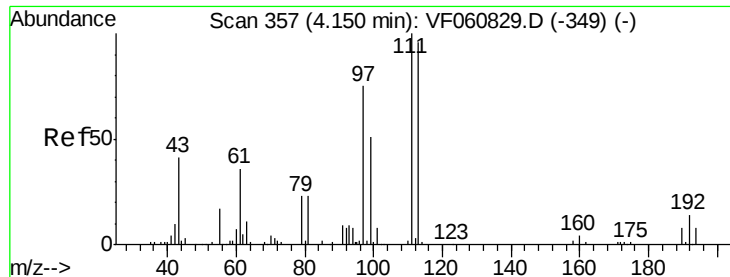


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 53.724 ug/l

RT: 4.15 min Scan# 357

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

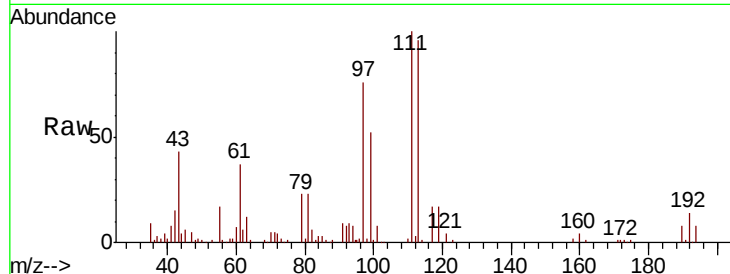
MSVOA_F

ClientSampled :

VSTDICCC050

Tot Ion:	113	Resp:	126426
Ion	Ratio	Lower	Upper
113	100		
111	103.8	83.0	124.6
192	15.4	12.3	18.5

Manual Integrations
APPROVED

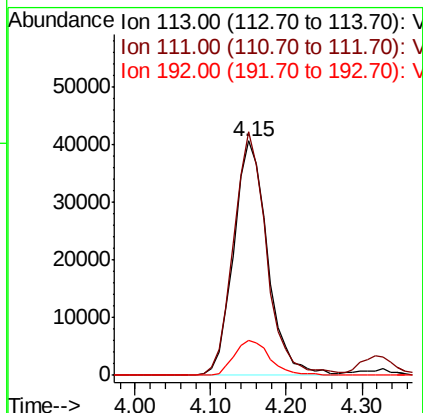
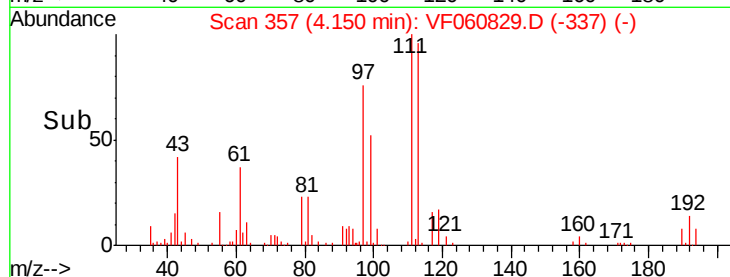


Abundance Ion 113.00 (112.70 to 113.70): V

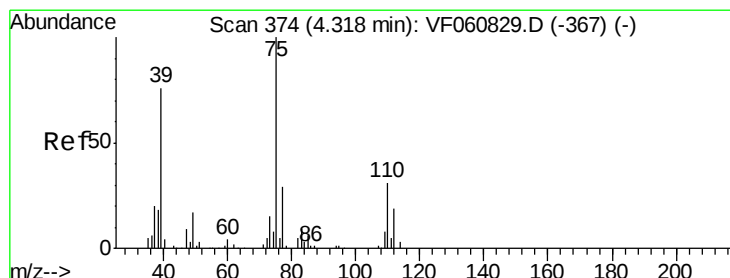
Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

apatel



11/27/2018 3:16:55 PM



#36

1,1-Dichloropropene

Concen: 49.913 ug/l

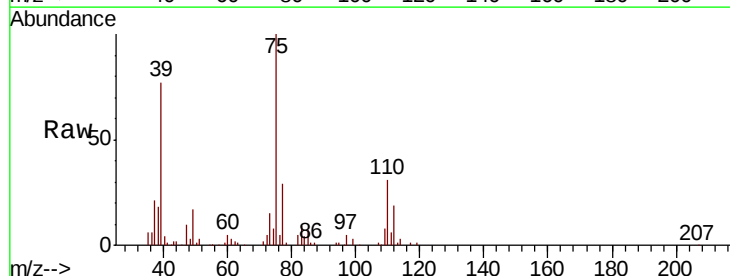
RT: 4.32 min Scan# 374

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

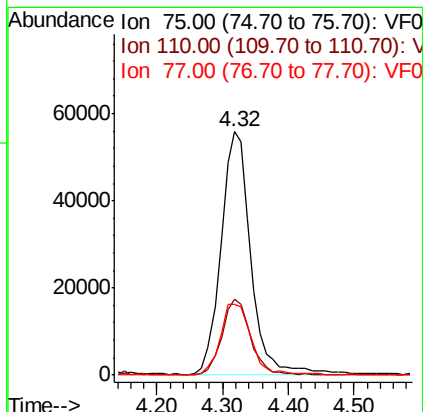
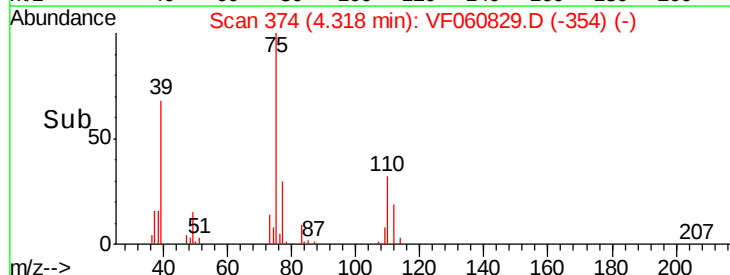
Tgt Ion:	75	Resp:	175378
Ion	Ratio	Lower	Upper
75	100		
110	31.2	15.6	46.8
77	29.2	23.4	35.0

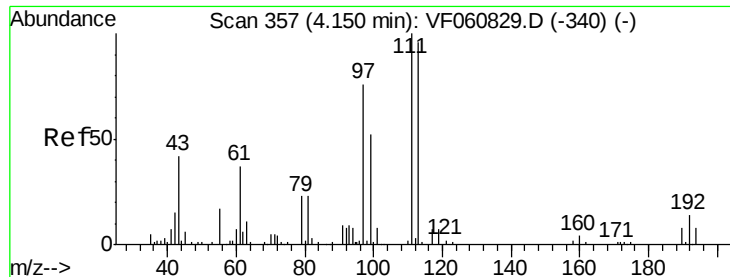


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0



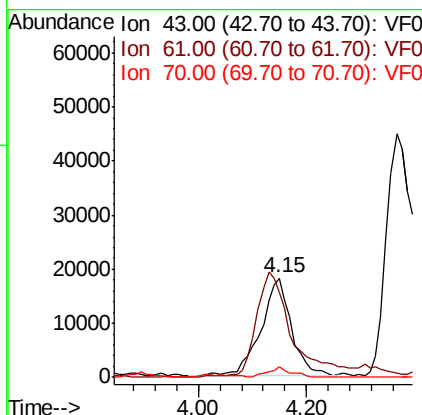
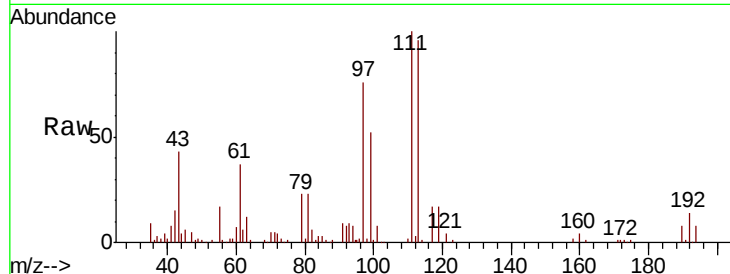


#37
Ethyl Acetate
Concen: 52.780 ug/l
RT: 4.15 min Scan# 357
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

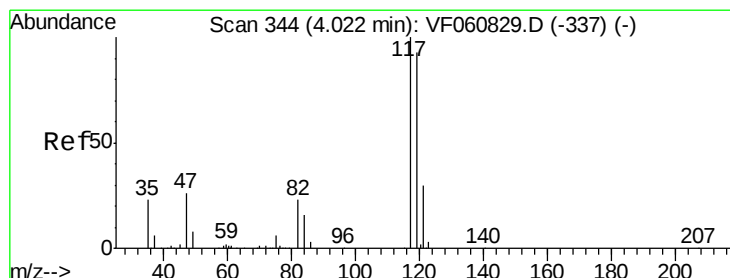
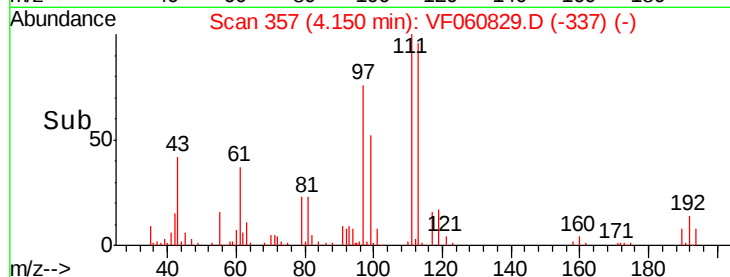
Tot Ion	43	61	70
Resp:	69980		
Ratio	100	85.8	11.2
Lower		68.6	9.0
Upper		103.0	13.4

Manual Integrations
APPROVED



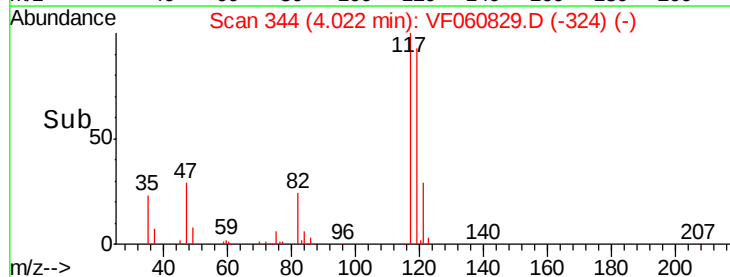
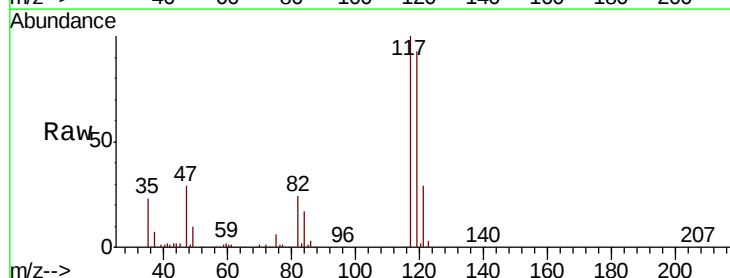
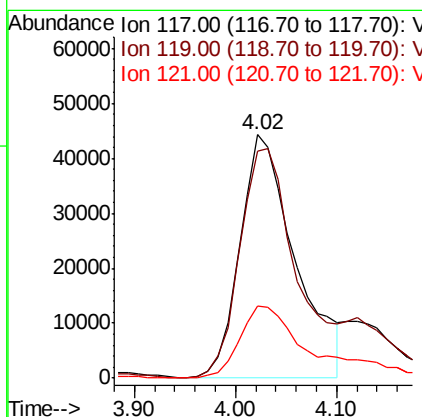
apatel

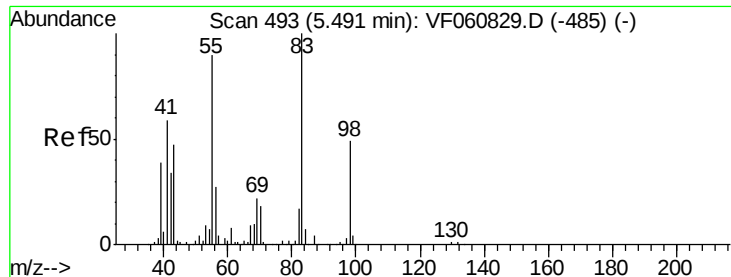
11/27/2018 3:16:55 PM



#38
Carbon Tetrachloride
Concen: 49.396 ug/l m
RT: 4.02 min Scan# 344
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	117	119	121
Resp:	168800		
Ratio	100	93.0	29.4
Lower		74.4	23.5
Upper		111.6	35.3



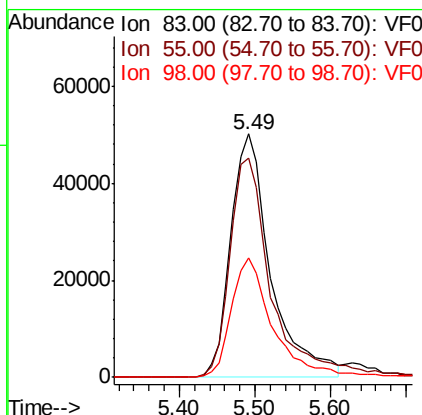
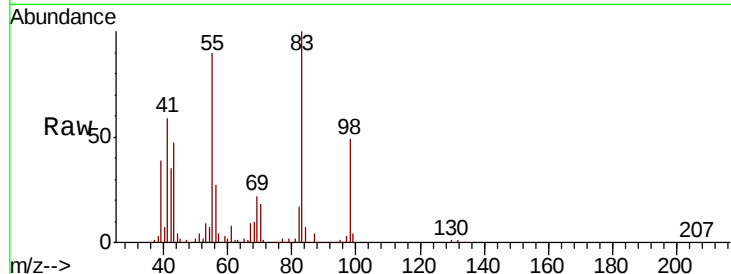


#39
Methylcyclohexane
Concen: 45.916 ug/l
RT: 5.49 min Scan# 493
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

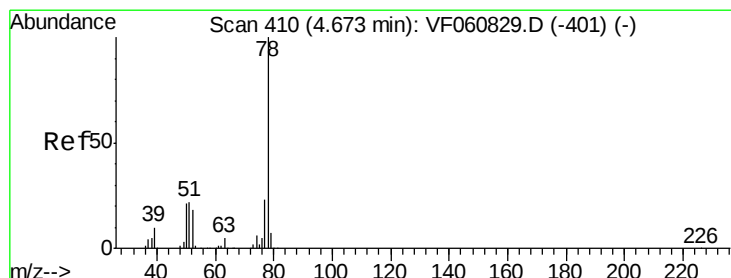
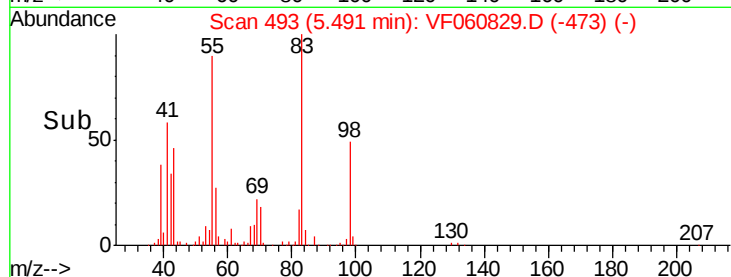
Tot Ion	Ratio	Lower	Upper
83	100		
55	90.1	72.1	108.1
98	48.9	39.1	58.7

Manual Integrations
APPROVED



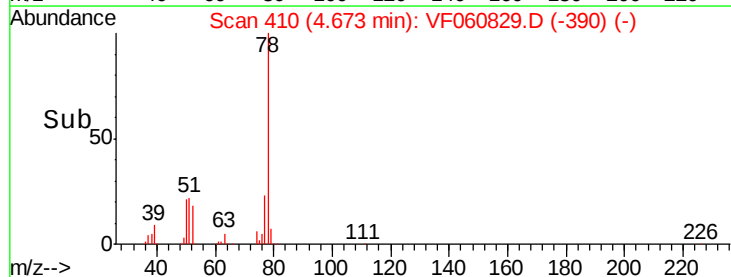
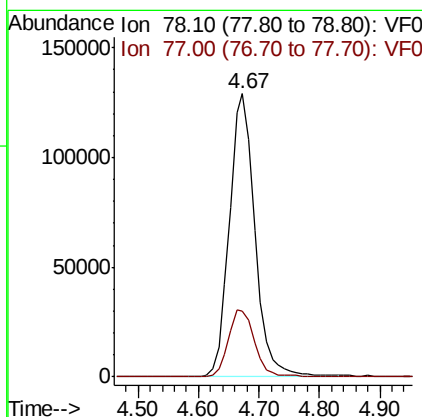
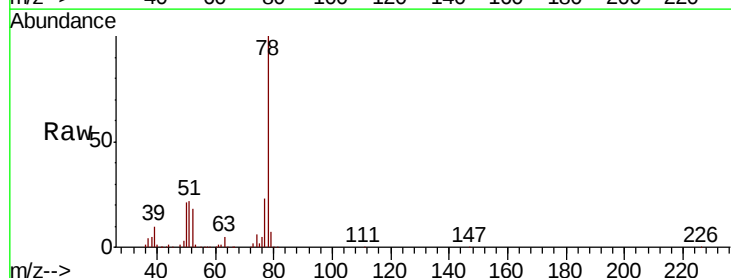
apatel

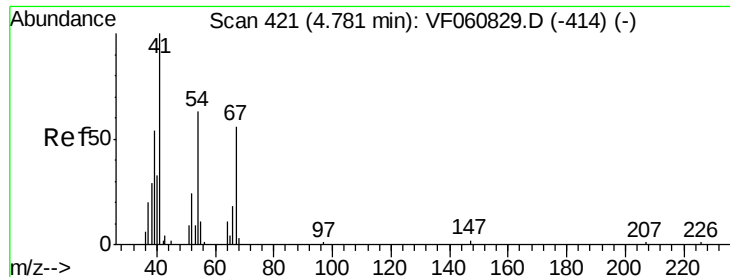
11/27/2018 3:16:55 PM



#40
Benzene
Concen: 48.523 ug/l
RT: 4.67 min Scan# 410
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.7	28.1



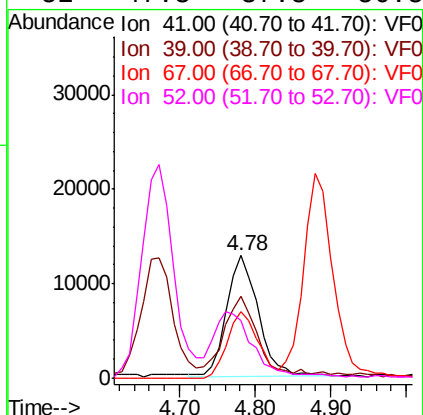
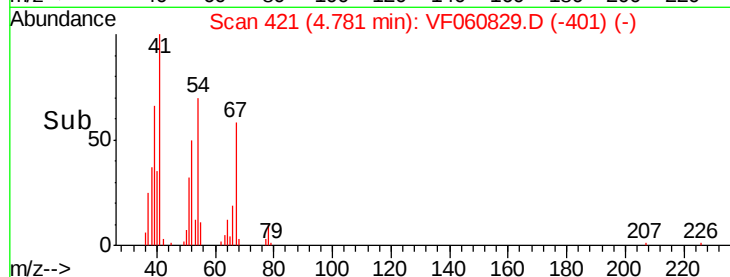
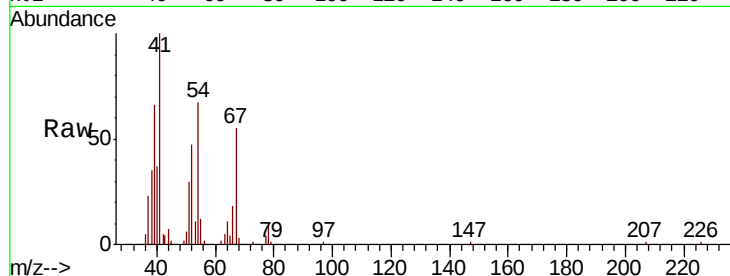


#41
Methacrylonitrile
Concen: 46.848 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

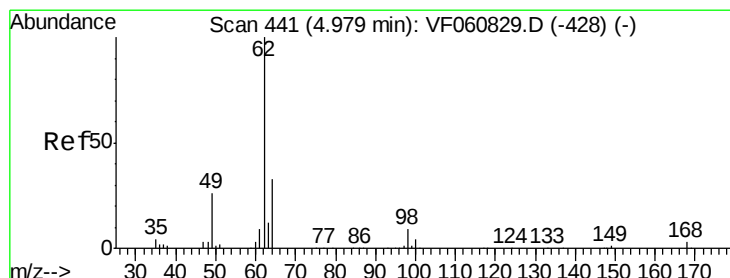
Tot Ion	Ion	Ratio	Lower	Upper
37196	41	100		
	39	66.3	53.0	79.6
	67	54.7	43.8	65.6
	52	47.3	37.8	56.8

Manual Integrations
APPROVED



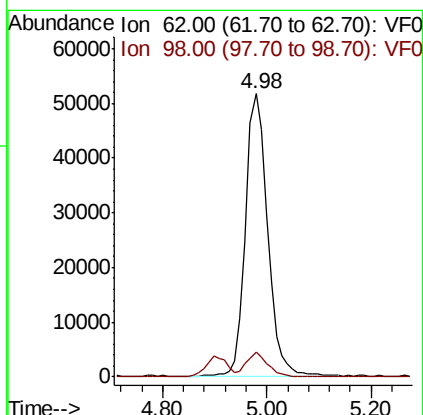
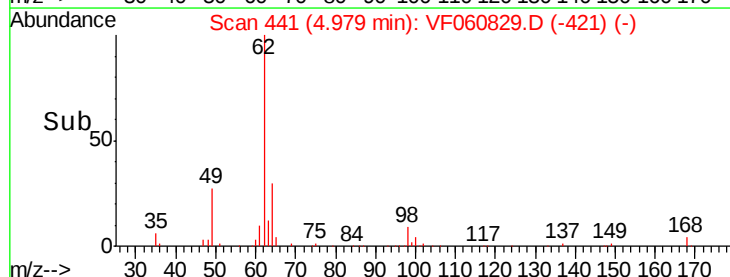
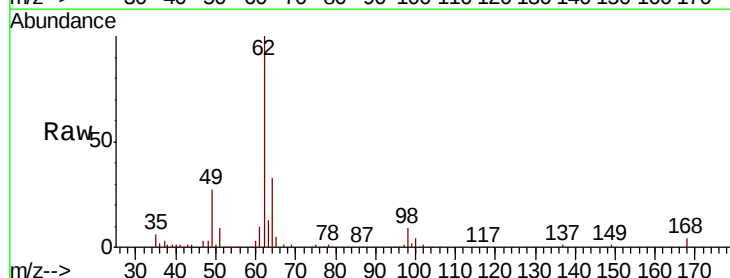
apatel

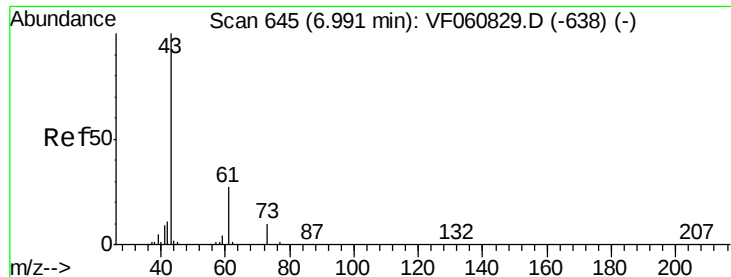
11/27/2018 3:16:55 PM



#42
1,2-Dichloroethane
Concen: 53.994 ug/l
RT: 4.98 min Scan# 441
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ion	Ratio	Lower	Upper
148749	62	100		
	98	8.6	0.0	17.2



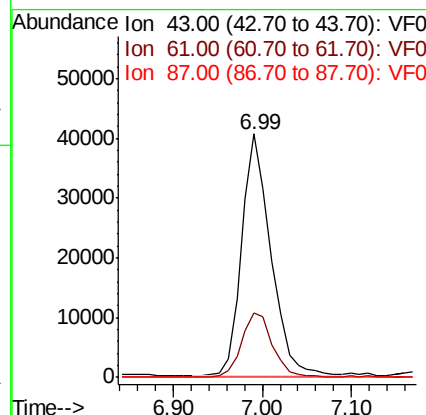
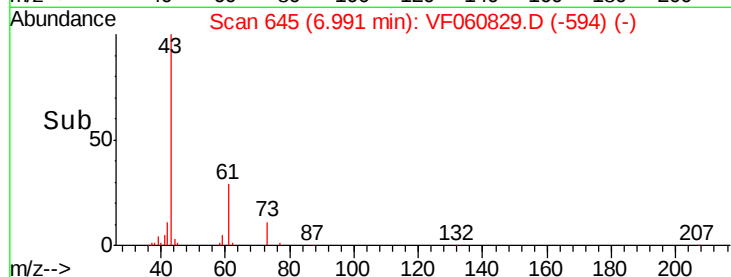
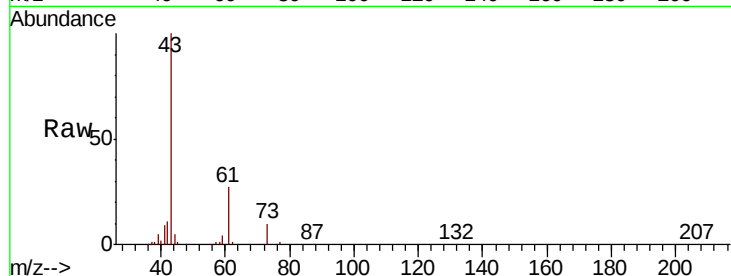


#43
Isopropyl Acetate
Concen: 52.175 ug/l
RT: 6.99 min Scan# 645
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

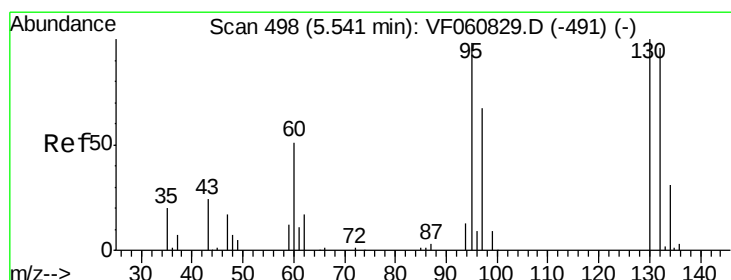
Tot Ion	Ratio	Lower	Upper
43	100		
61	26.7	21.4	32.0
87	0.3	0.2	0.4

Manual Integrations
APPROVED



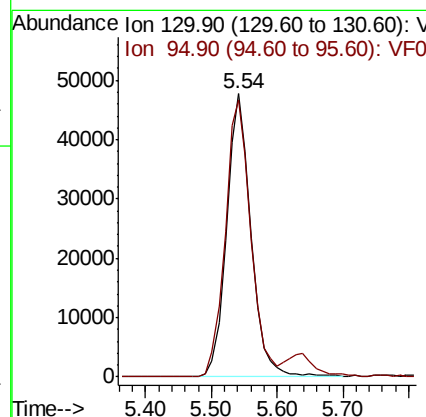
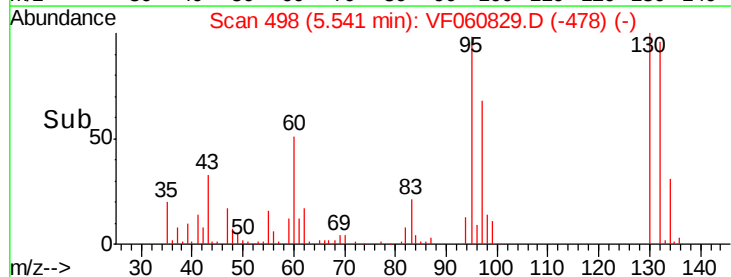
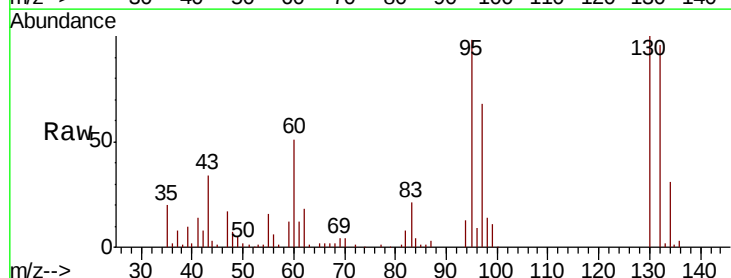
apatel

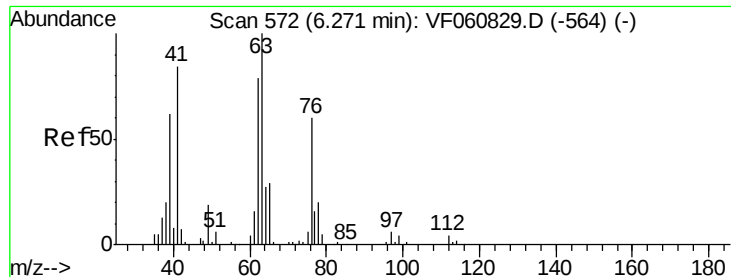
11/27/2018 3:16:55 PM



#44
Trichloroethene
Concen: 49.443 ug/l
RT: 5.54 min Scan# 498
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	195.6





#45

1,2-Dichloropropane

Concen: 51.136 ug/l

RT: 6.27 min Scan# 572

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 63 Resp: 105816

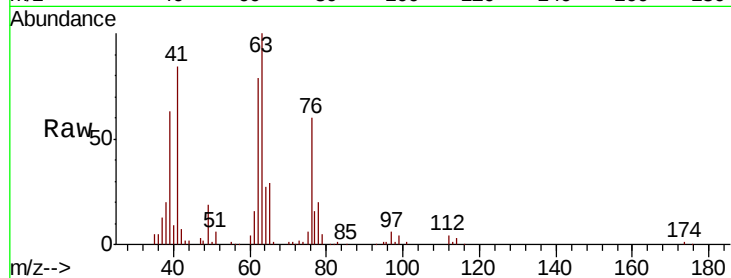
Ion Ratio Lower Upper

63 100

65 29.0 23.2 34.8

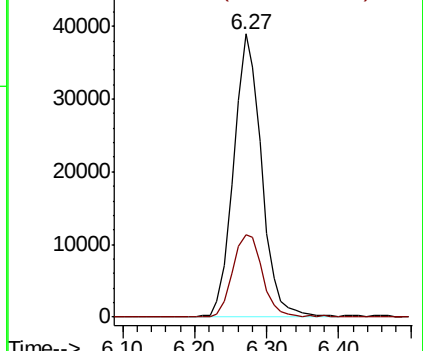
Manual Integrations

APPROVED



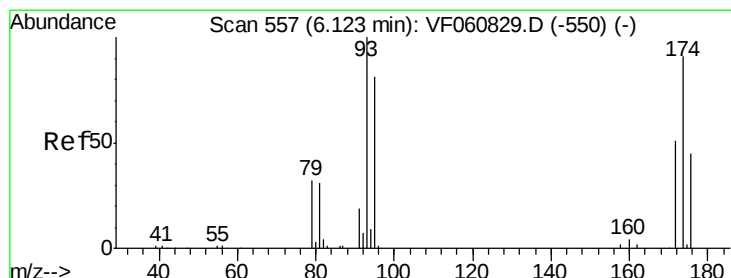
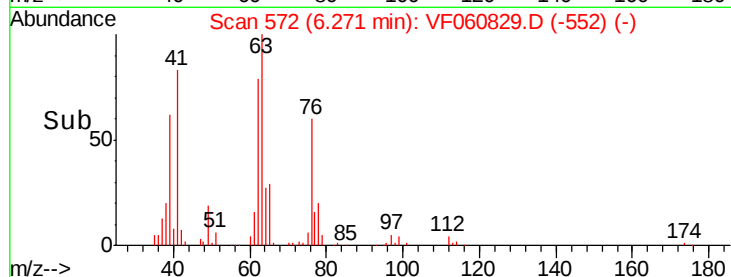
Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



apatel

11/27/2018 3:16:55 PM



#46

Dibromomethane

Concen: 52.054 ug/l

RT: 6.12 min Scan# 557

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

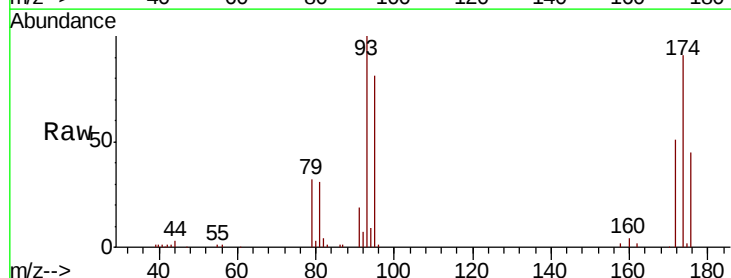
Tgt Ion: 93 Resp: 70584

Ion Ratio Lower Upper

93 100

95 80.9 64.7 97.1

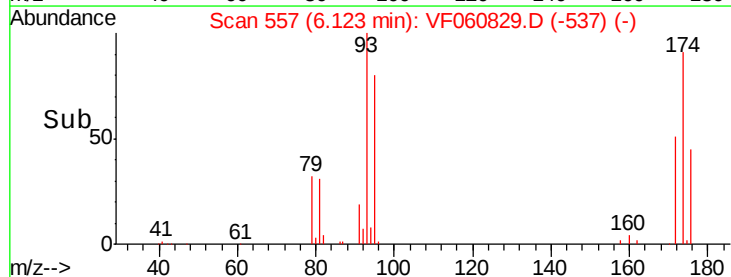
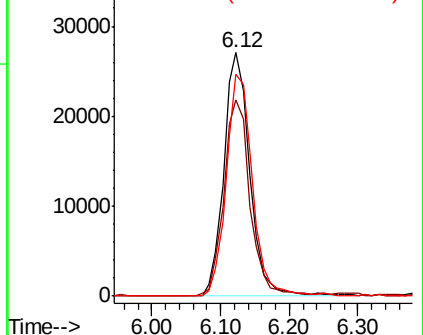
174 91.3 73.0 109.6

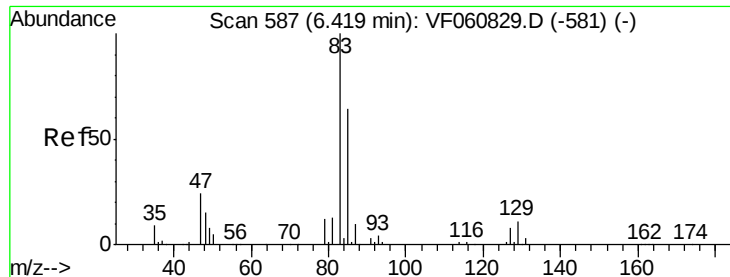


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 53.999 ug/l

RT: 6.42 min Scan# 587

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

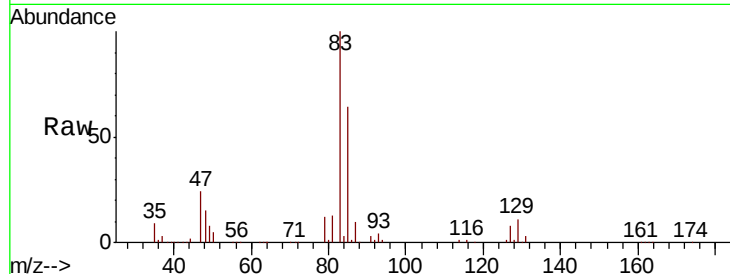
MSVOA_F

ClientSampleId :

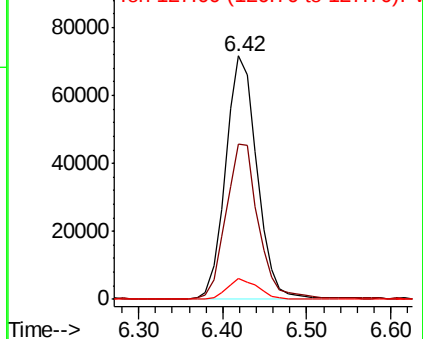
VSTDICCC050

Tot Ion:	83	Resp:	186678
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.5	6.8	10.2

Manual Integrations
APPROVED

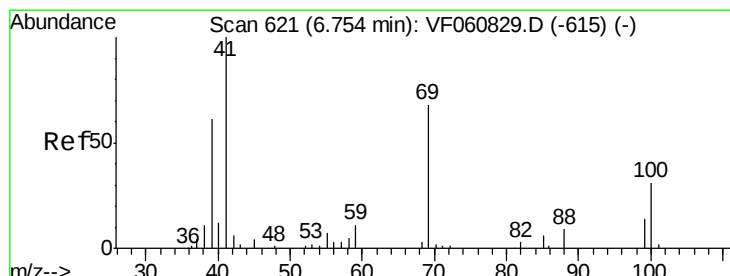
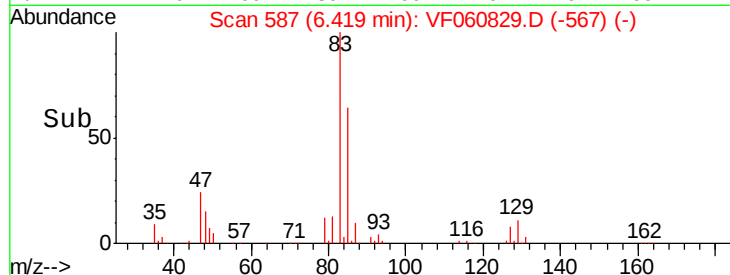


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



apatel

11/27/2018 3:16:55 PM



#48

Methyl methacrylate

Concen: 54.984 ug/l

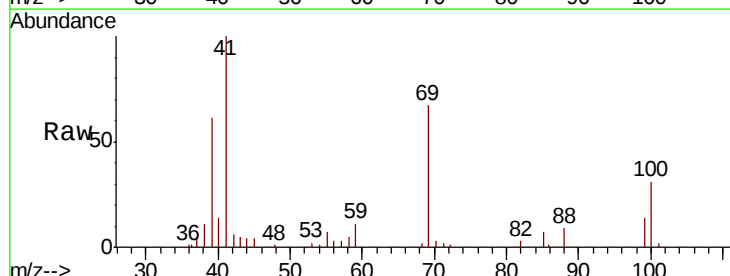
RT: 6.75 min Scan# 621

Delta R.T. 0.00 min

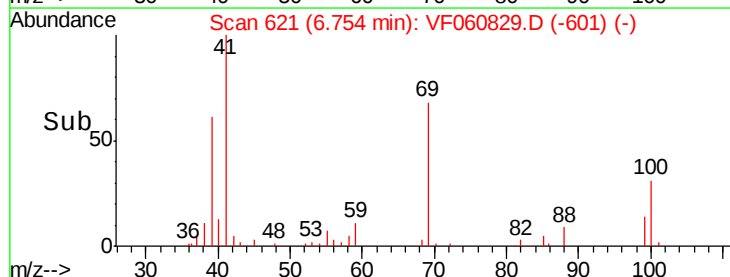
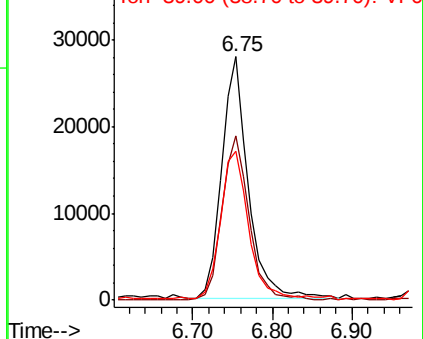
Lab File: VF060829.D

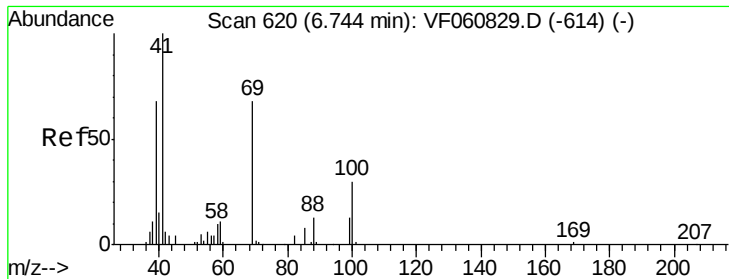
Acq: 26 Nov 2018 18:30

Tgt Ion:	41	Resp:	65075
Ion	Ratio	Lower	Upper
41	100		
69	67.4	53.9	80.9
39	61.3	49.0	73.6



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 963.644 ug/l

RT: 6.74 min Scan# 620

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

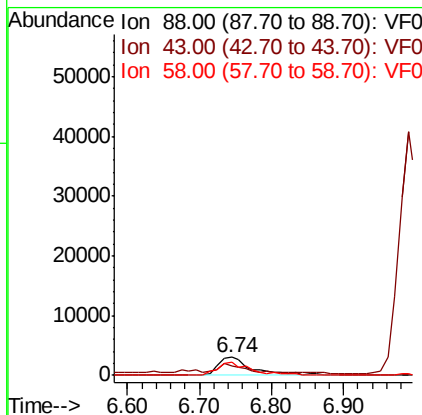
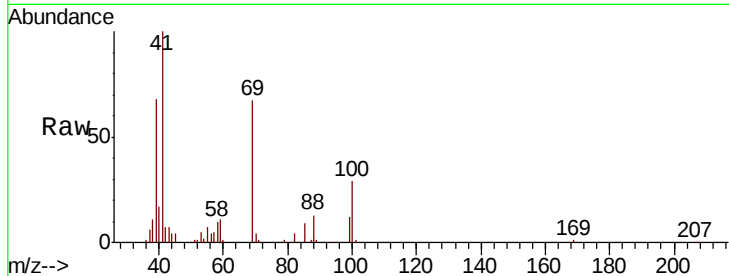
MSVOA_F

ClientSampleId :

VSTDICCC050

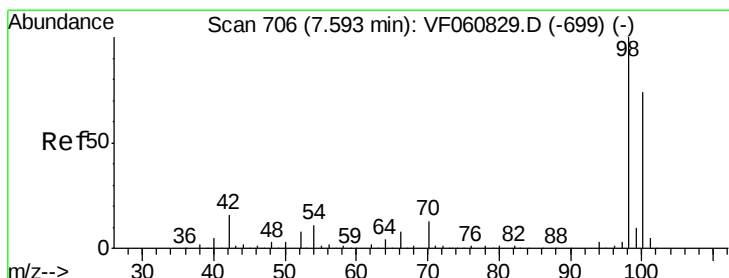
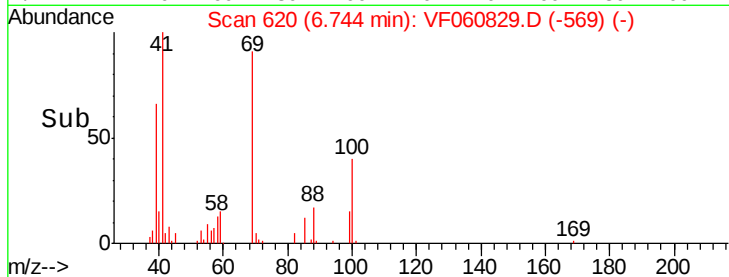
Tot Ion:	88	Resp:	10408
Ion Ratio	Lower	Upper	
88	100		
43	52.5	42.0	63.0
58	77.3	61.8	92.8

Manual Integrations
APPROVED



apatel

11/27/2018 3:16:55 PM



#50

Toluene-d8

Concen: 53.658 ug/l

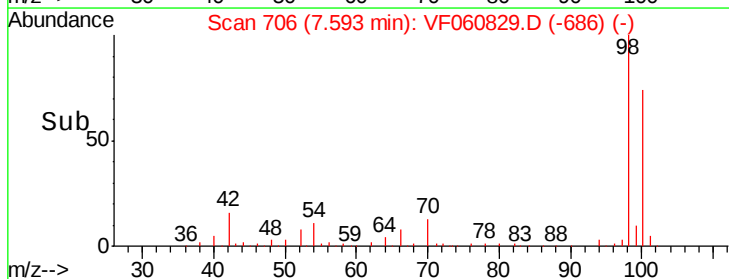
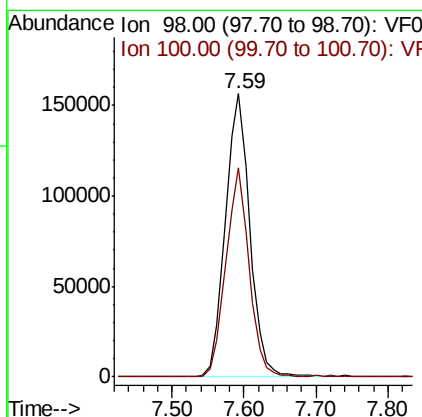
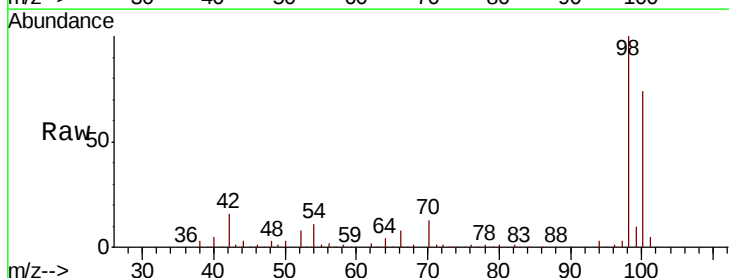
RT: 7.59 min Scan# 706

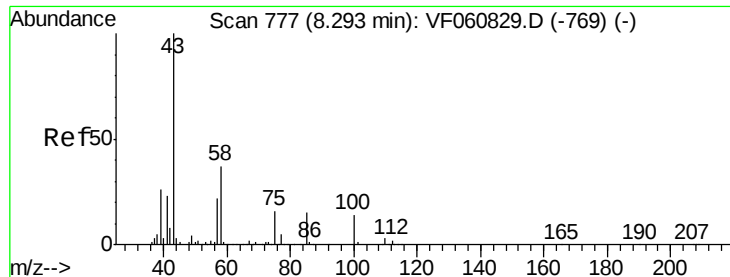
Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tgt Ion:	98	Resp:	369318
Ion Ratio	Lower	Upper	
98	100		
100	74.1	59.3	88.9





#51

4-Methyl-2-Pentanone

Concen: 249.066 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampled :

VSTDICCC050

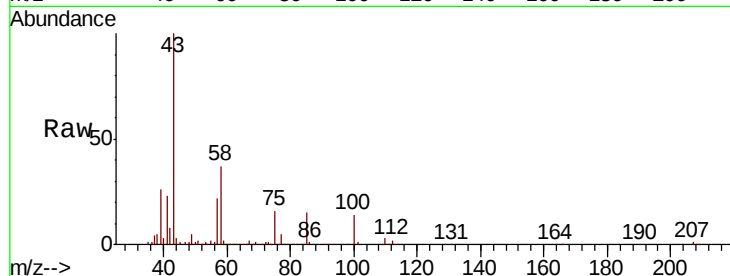
Tot Ion: 43 Resp: 315321

Ion Ratio Lower Upper

43 100

58 37.1 29.7 44.5

Manual Integrations
APPROVED



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

150000

100000

50000

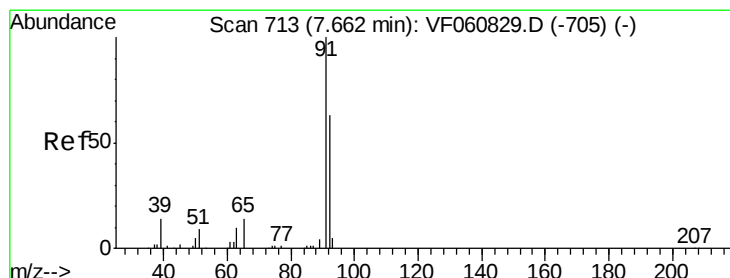
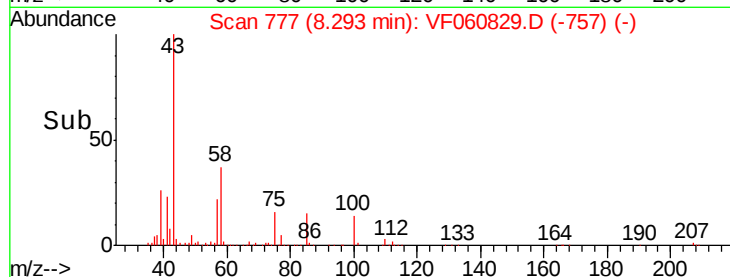
0

8.20 8.30 8.40

Time-->

apatel

11/27/2018 3:16:55 PM



#52

Toluene

Concen: 47.750 ug/l

RT: 7.66 min Scan# 713

Delta R.T. 0.00 min

Lab File: VF060829.D

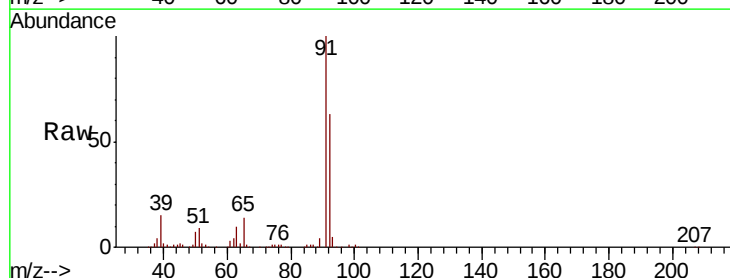
Acq: 26 Nov 2018 18:30

Tgt Ion: 92 Resp: 250419

Ion Ratio Lower Upper

92 100

91 157.7 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

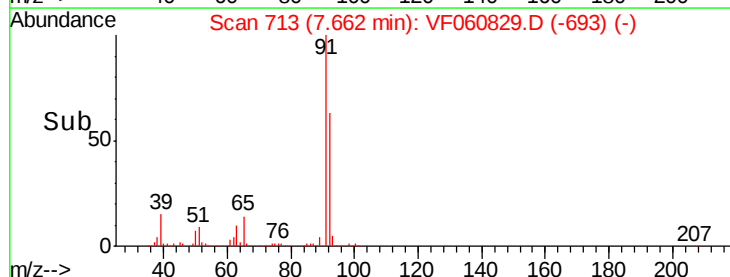
100000

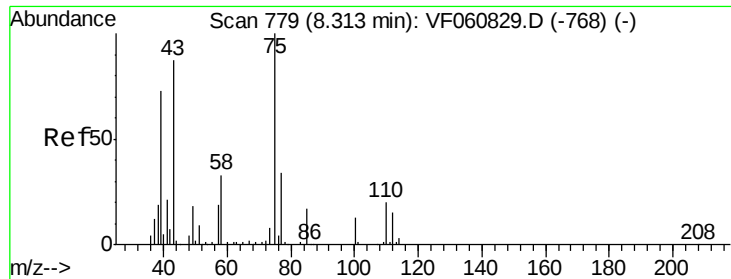
50000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 52.202 ug/l

RT: 8.31 min Scan# 779

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

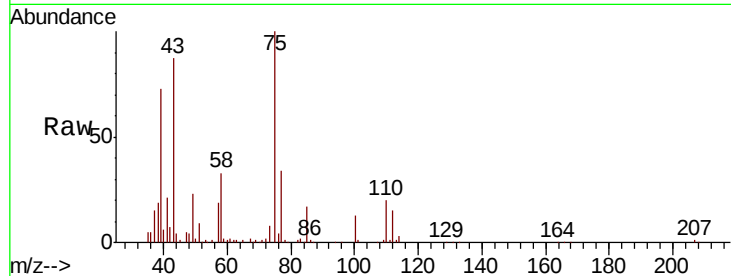
Tot Ion: 75 Resp: 146320

Ion Ratio Lower Upper

75 100

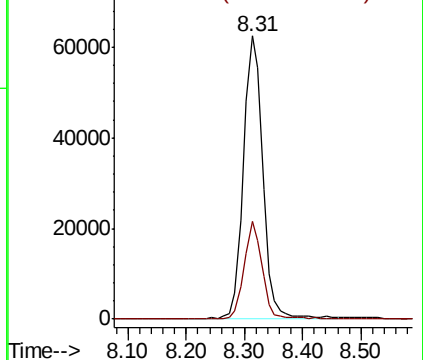
77 34.3 27.4 41.2

Manual Integrations
APPROVED



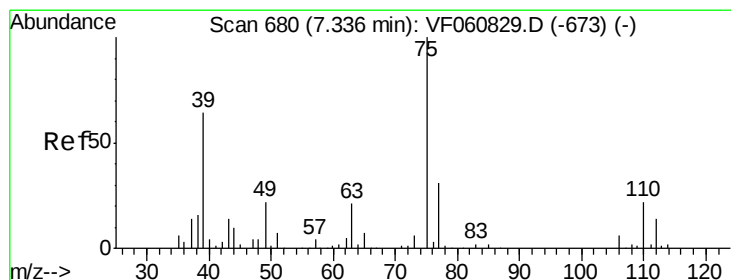
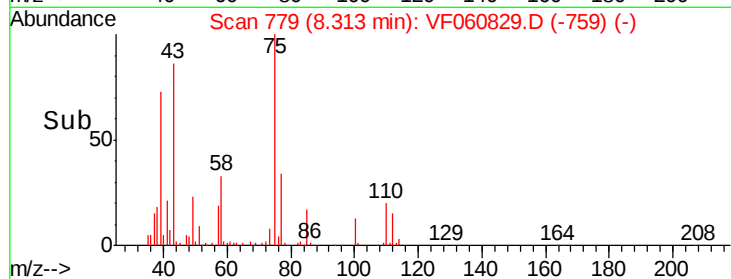
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



apatel

11/27/2018 3:16:55 PM



#54

cis-1,3-Dichloropropene

Concen: 51.487 ug/l

RT: 7.34 min Scan# 680

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

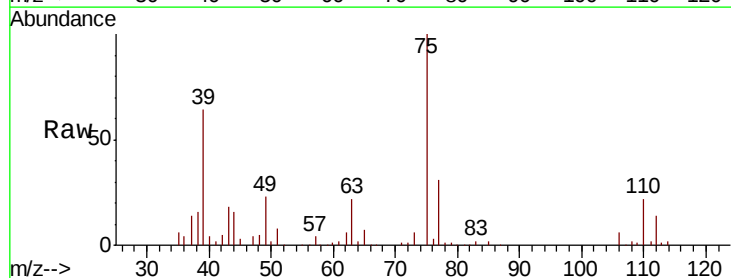
Tgt Ion: 75 Resp: 188671

Ion Ratio Lower Upper

75 100

77 31.3 25.0 37.6

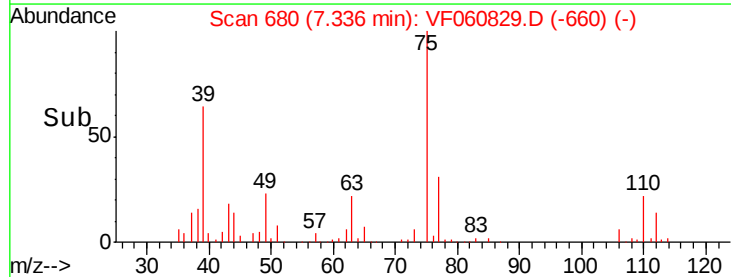
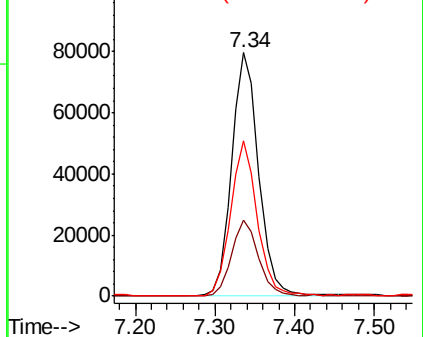
39 63.9 51.1 76.7

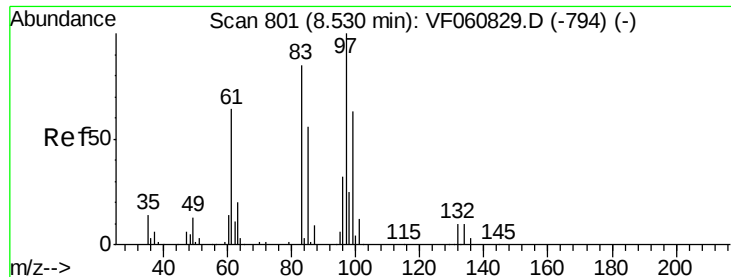


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 52.063 ug/l

RT: 8.53 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

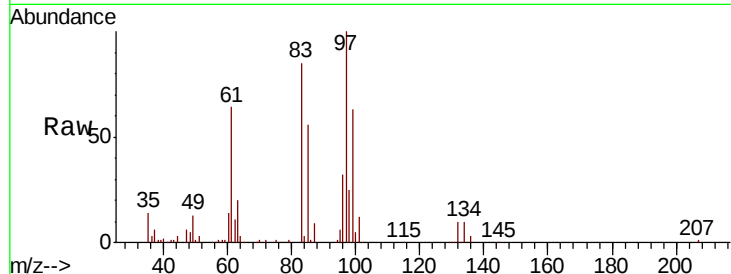
MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion:	97	Resp:	78740
Ion	Ratio	Lower	Upper
97	100		
83	84.7	67.8	101.6
85	56.3	45.0	67.6
99	63.1	50.5	75.7

Manual Integrations
APPROVED



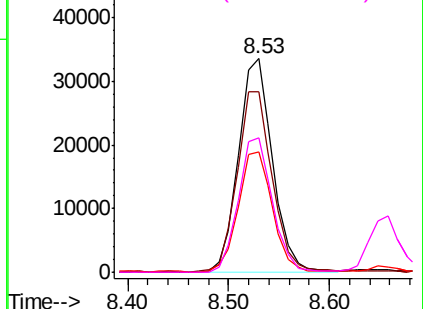
Abundance

Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

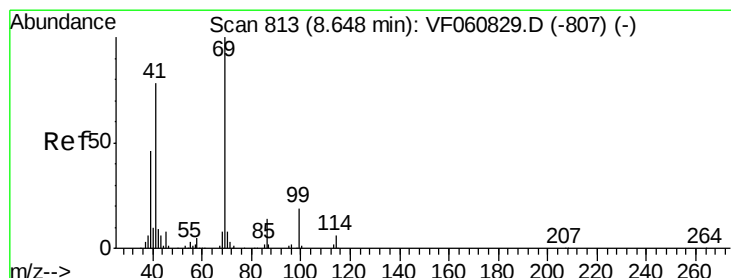
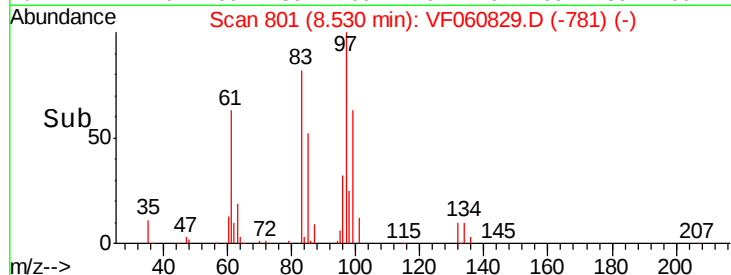
Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



apatel

11/27/2018 3:16:55 PM



#56

Ethyl methacrylate

Concen: 54.209 ug/l

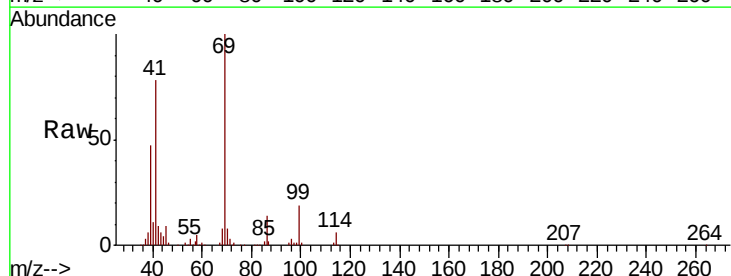
RT: 8.65 min Scan# 813

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tgt Ion:	69	Resp:	94135
Ion	Ratio	Lower	Upper
69	100		
41	78.3	62.6	94.0
39	47.2	37.8	56.6

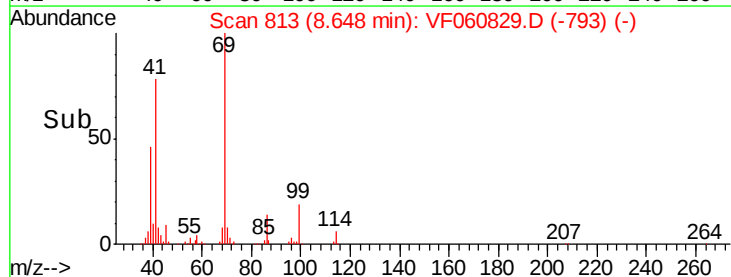
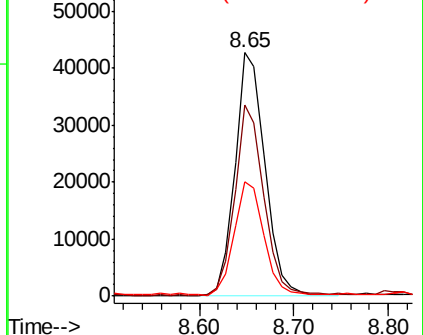


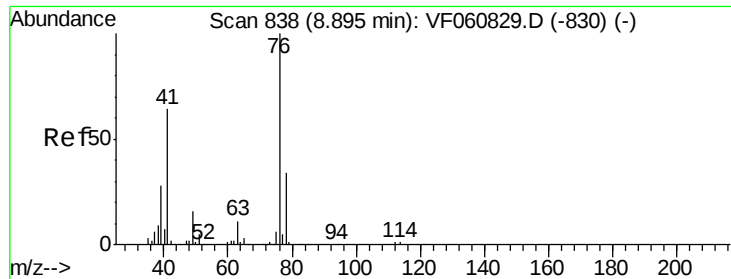
Abundance

Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 53.755 ug/l

RT: 8.89 min Scan# 838

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 76 Resp: 143359

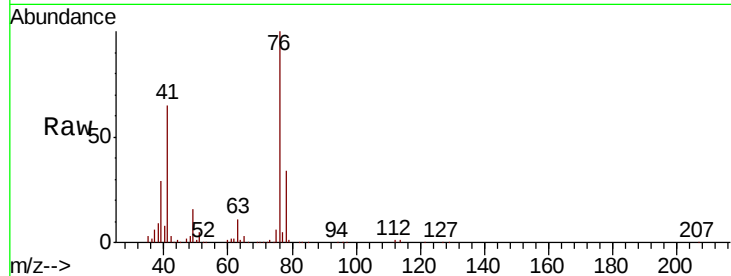
Ion Ratio Lower Upper

76 100

78 33.7 27.0 40.4

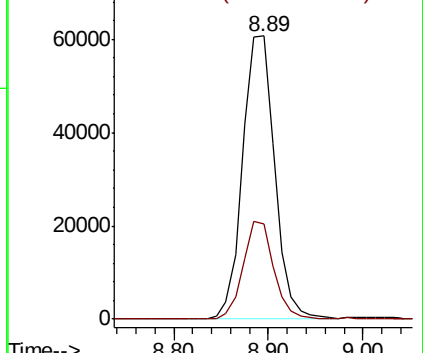
Manual Integrations

APPROVED



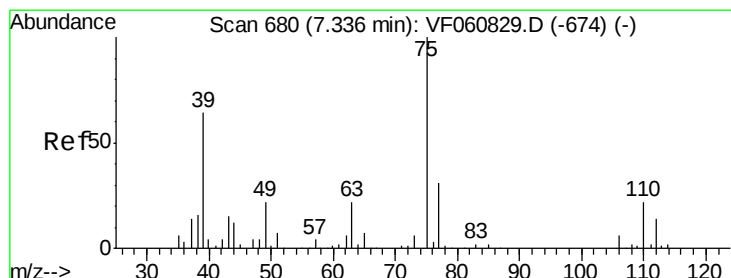
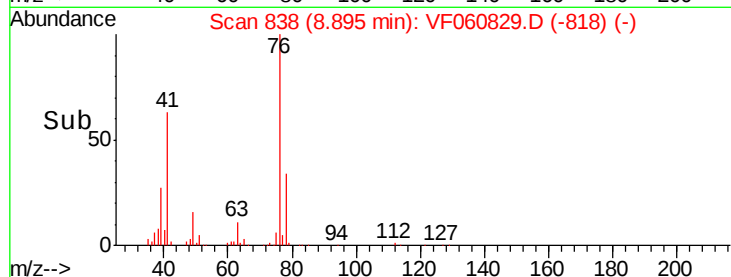
Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



apatel

11/27/2018 3:16:55 PM



#58

2-Chloroethyl Vinyl ether

Concen: 272.951 ug/l

RT: 7.34 min Scan# 680

Delta R.T. 0.00 min

Lab File: VF060829.D

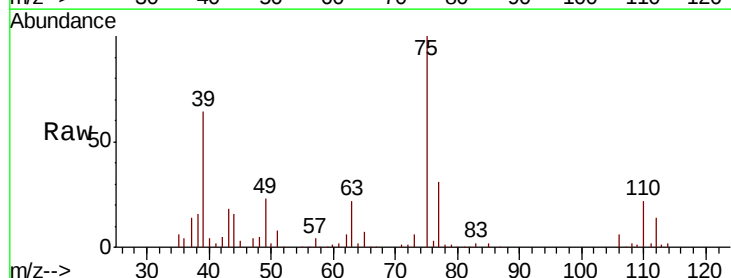
Acq: 26 Nov 2018 18:30

Tgt Ion: 63 Resp: 43074

Ion Ratio Lower Upper

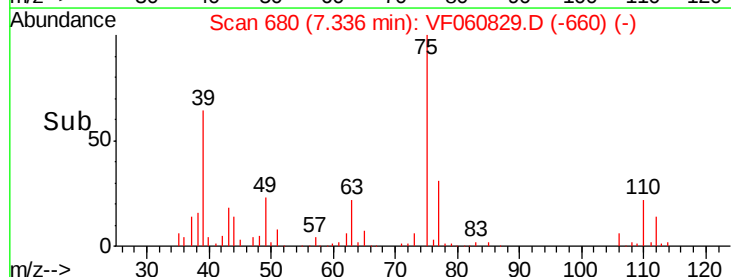
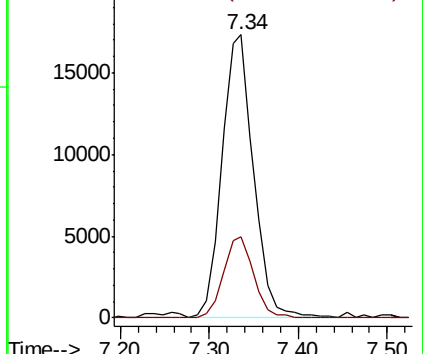
63 100

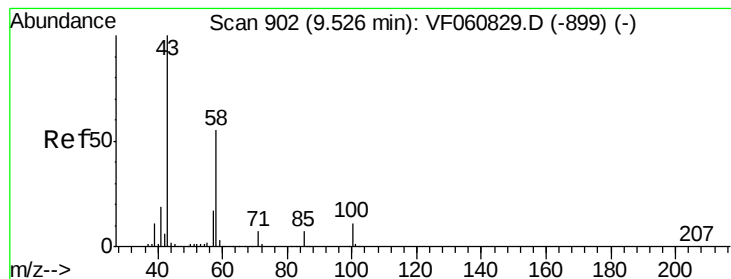
106 28.8 23.0 34.6



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: 247.869 ug/l

RT: 9.53 min Scan# 902

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 221686

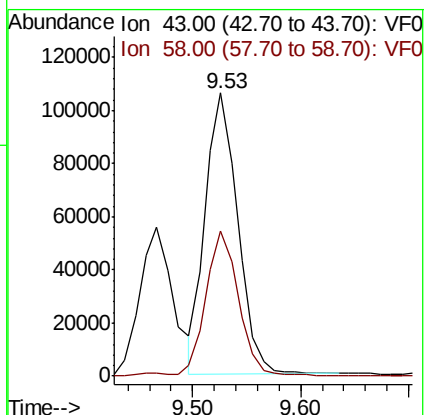
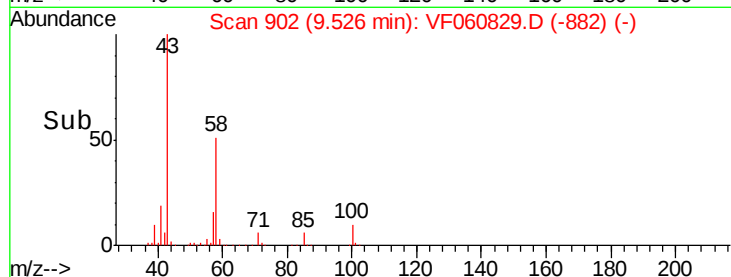
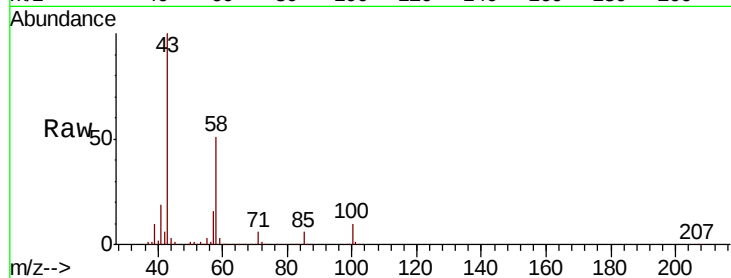
Ion Ratio Lower Upper

43 100

58 51.1 25.6 76.6

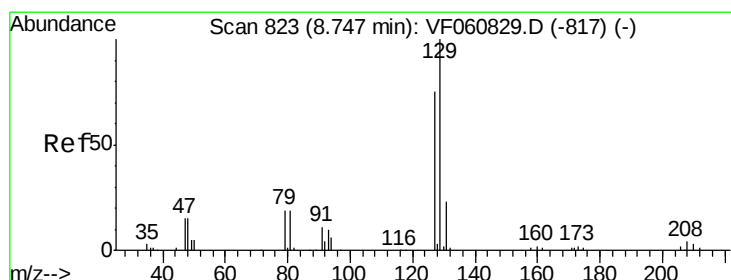
Manual Integrations

APPROVED



apatel

11/27/2018 3:16:55 PM



#60

Dibromochloromethane

Concen: 55.539 ug/l

RT: 8.75 min Scan# 823

Delta R.T. 0.00 min

Lab File: VF060829.D

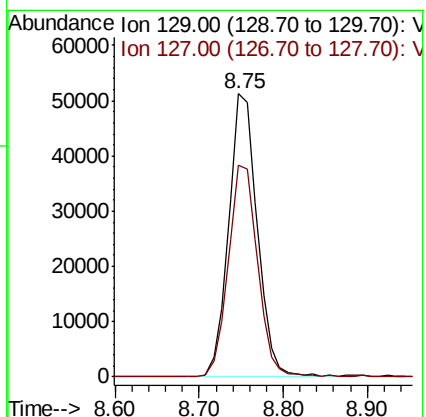
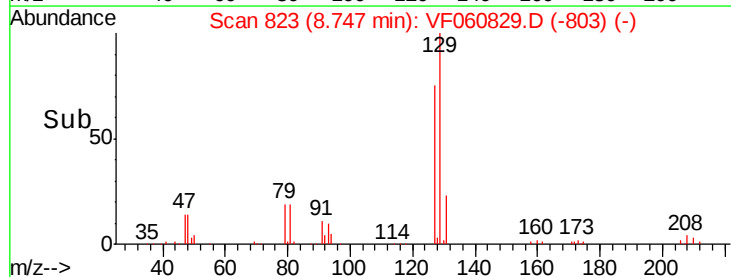
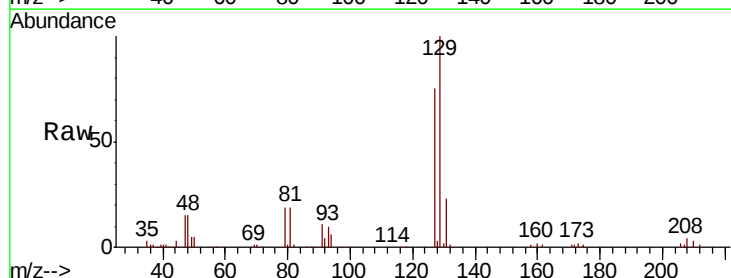
Acq: 26 Nov 2018 18:30

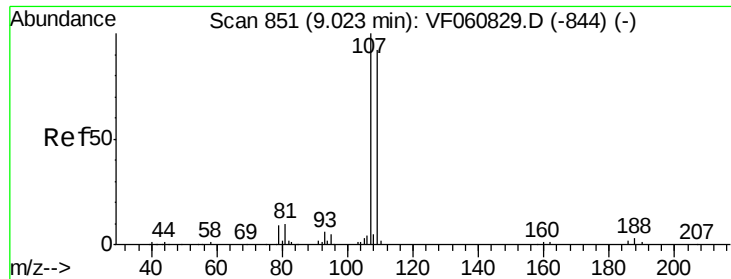
Tgt Ion: 129 Resp: 121455

Ion Ratio Lower Upper

129 100

127 74.6 37.3 111.9



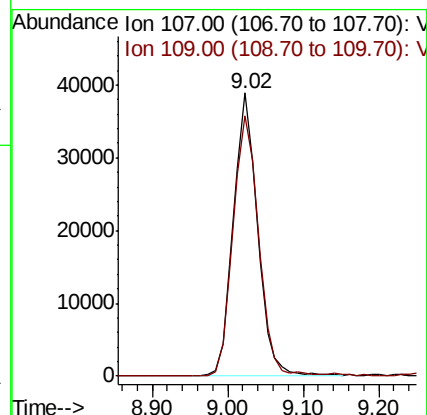
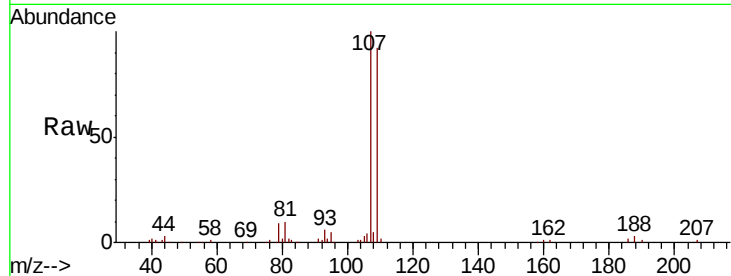


#61
 1,2-Dibromoethane
 Concen: 53.903 ug/l
 RT: 9.02 min Scan# 851
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

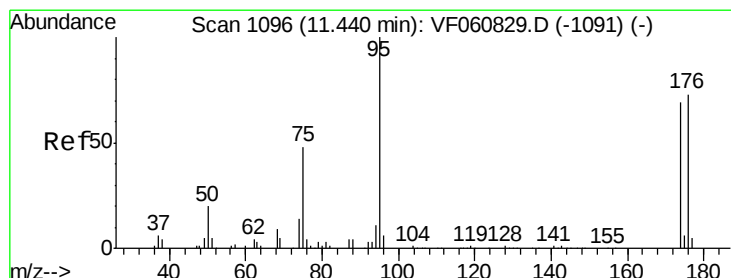
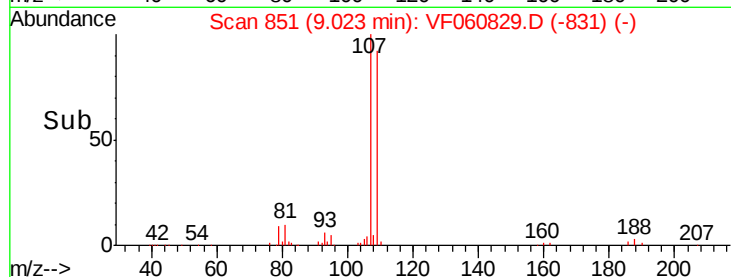
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.0	73.6	110.4

Manual Integrations
 APPROVED



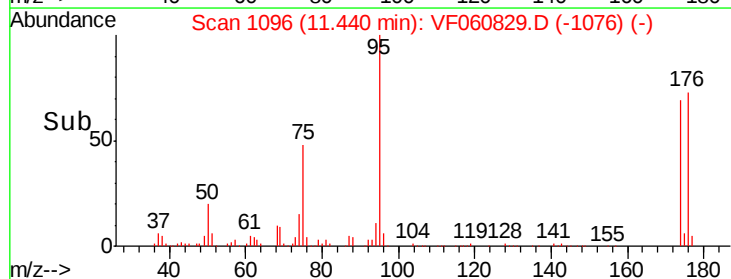
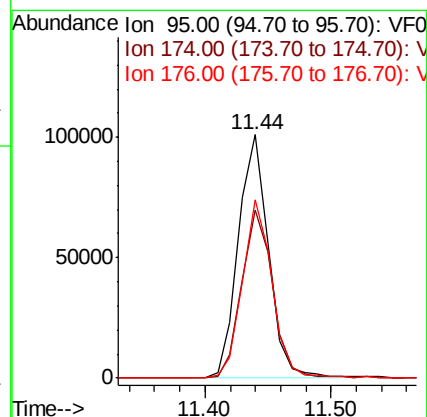
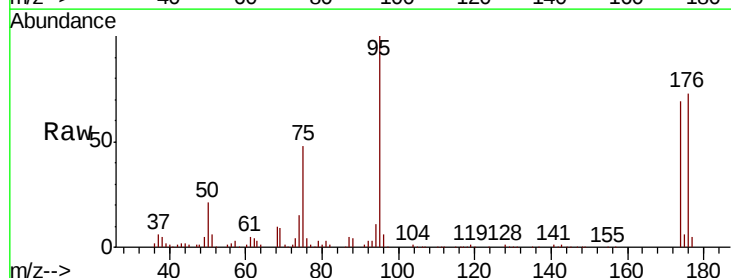
apatel

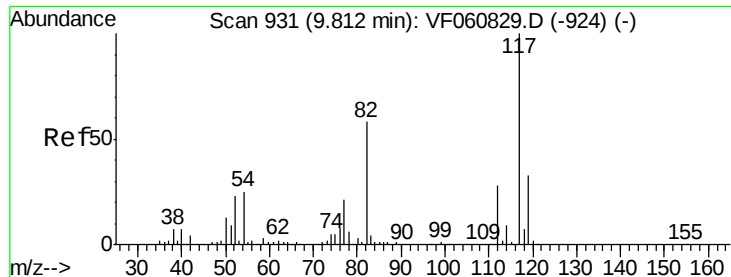
11/27/2018 3:16:55 PM



#62
 4-Bromofluorobenzene
 Concen: 52.462 ug/l
 RT: 11.44 min Scan# 1096
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
95	100		
174	69.1	0.0	138.2
176	73.1	0.0	146.2



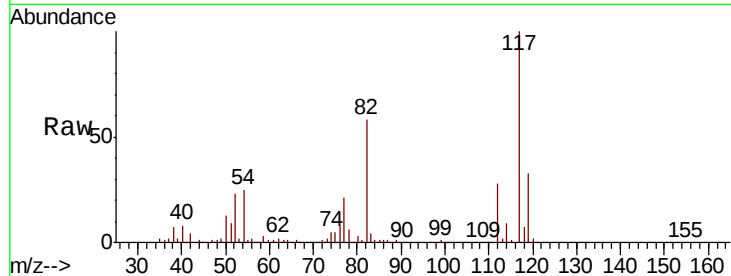


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.2	46.6	69.8
119	33.0	26.4	39.6

Manual Integrations
APPROVED

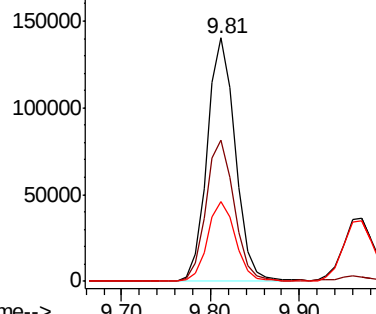


Abundance

Ion 117.00 (116.70 to 117.70): V

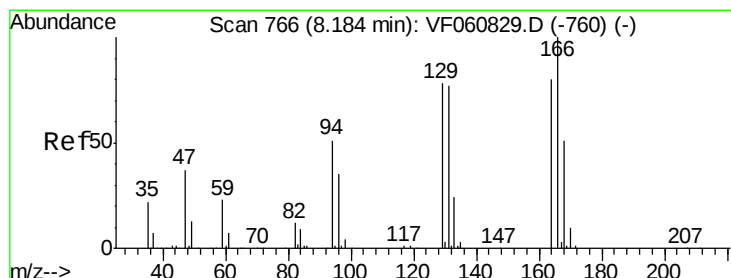
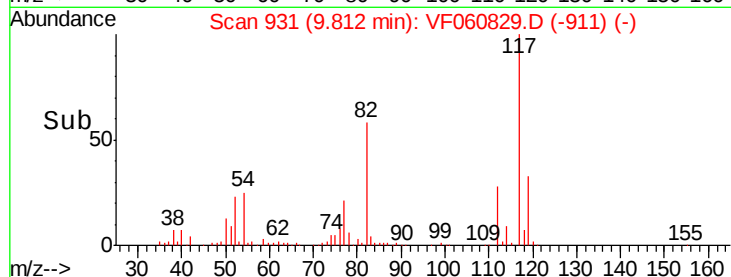
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



apatel

11/27/2018 3:16:55 PM



#64
Tetrachloroethene
Concen: 47.182 ug/l
RT: 8.18 min Scan# 766
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.4	100.3	150.5
129	97.4	77.9	116.9
131	96.9	77.5	116.3

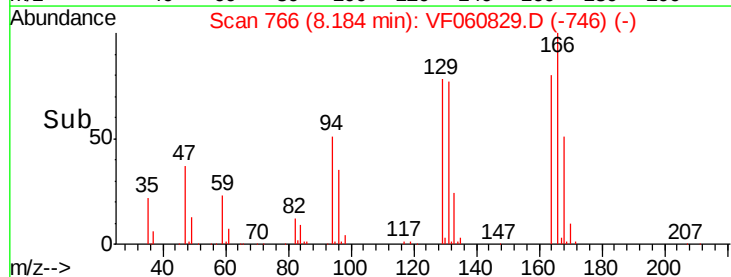
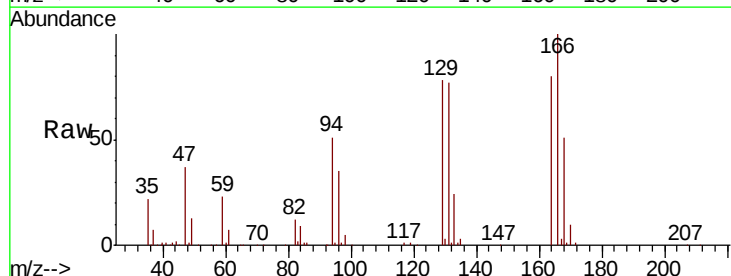
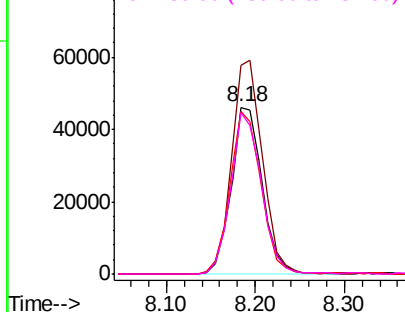
Abundance

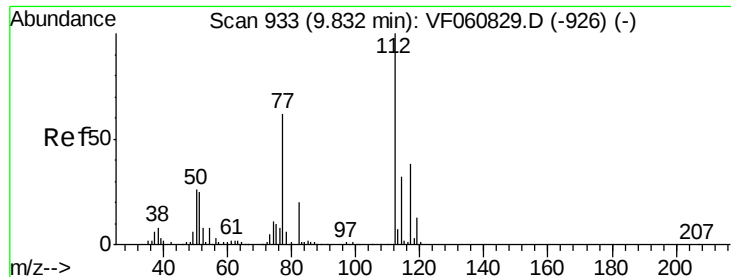
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



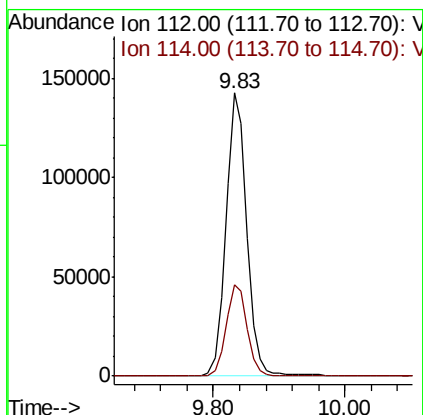
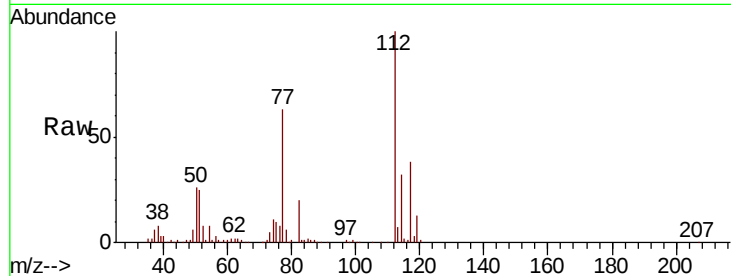


#65
Chlorobenzene
Concen: 50.897 ug/l
RT: 9.83 min Scan# 933
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

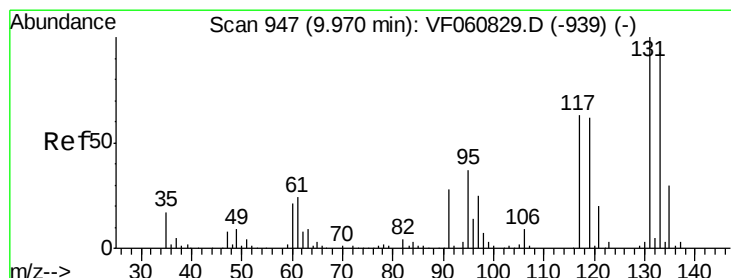
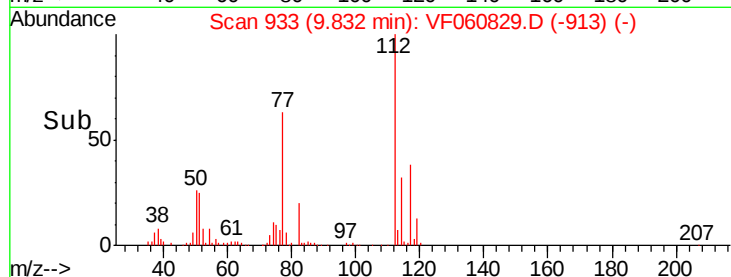
Tot Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0

Manual Integrations
APPROVED



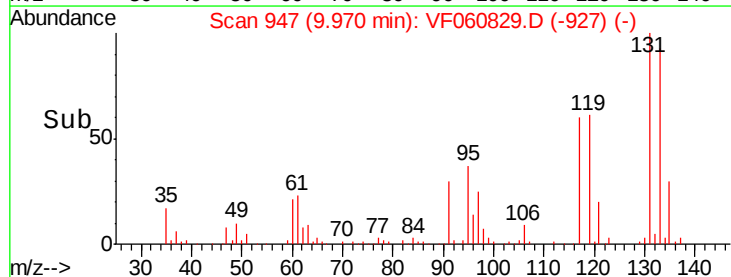
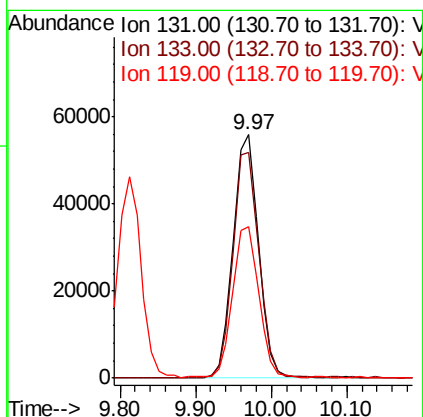
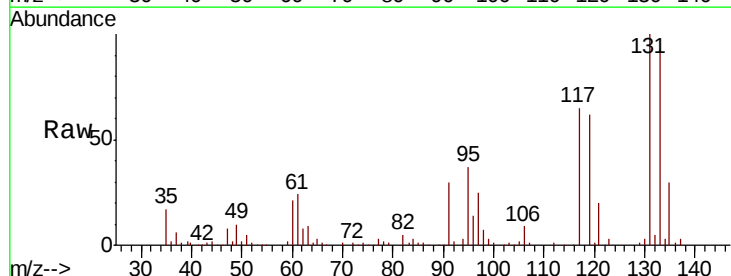
apatel

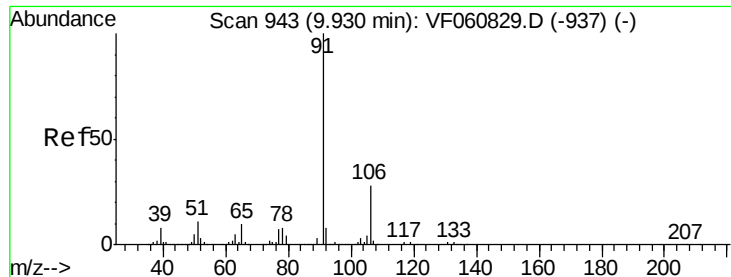
11/27/2018 3:16:55 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 48.654 ug/l
RT: 9.97 min Scan# 947
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
131	100		
133	92.9	46.5	139.3
119	62.2	31.1	93.3



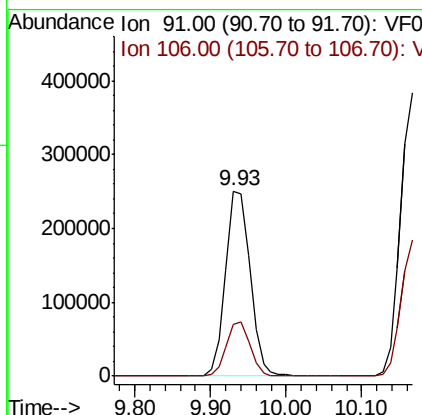
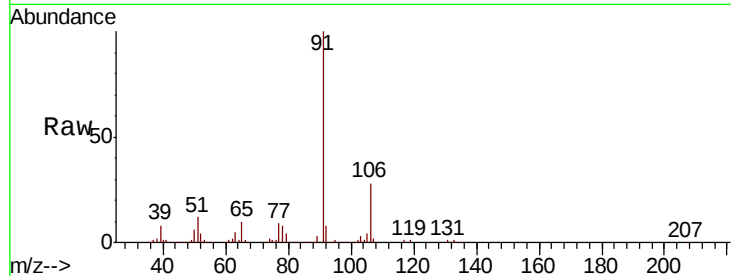


#67
Ethyl Benzene
Concen: 48.819 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

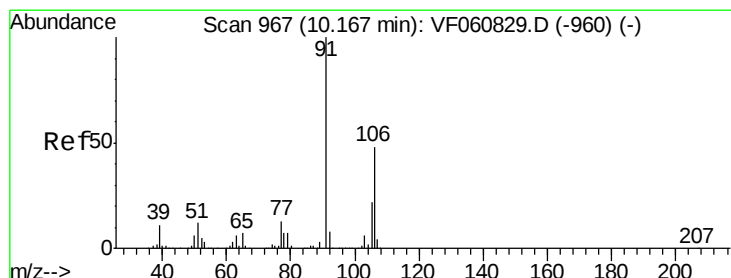
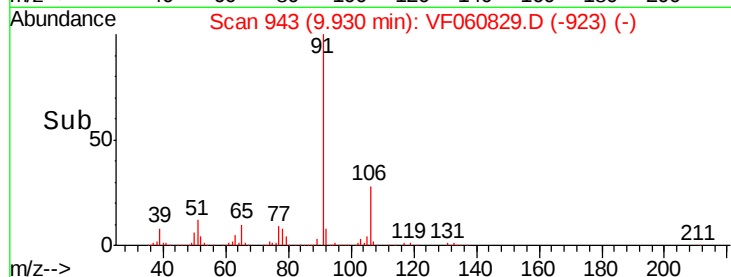
Tot Ion: 91 Resp: 567693
Ion Ratio Lower Upper
91 100
106 27.7 22.2 33.2

Manual Integrations
APPROVED



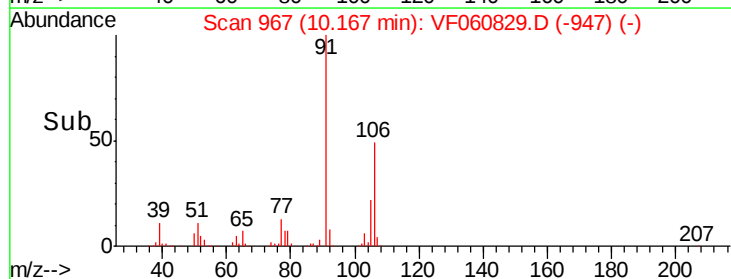
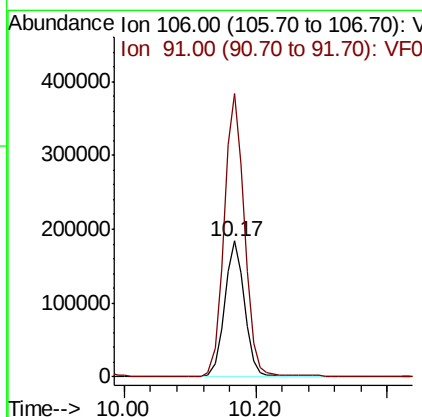
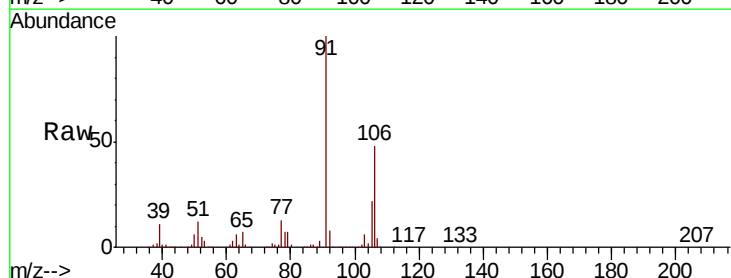
apatel

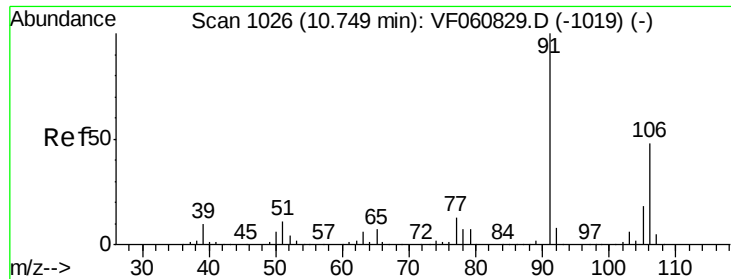
11/27/2018 3:16:55 PM



#68
m/p-Xylenes
Concen: 94.124 ug/l
RT: 10.17 min Scan# 967
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion: 106 Resp: 389777
Ion Ratio Lower Upper
106 100
91 208.4 166.7 250.1



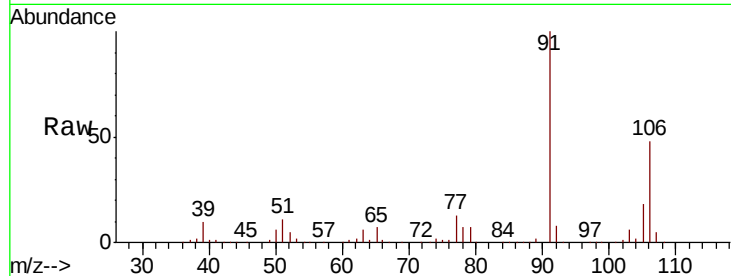


#69
o-Xylene
Concen: 47.285 ug/l
RT: 10.75 min Scan# 1026
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

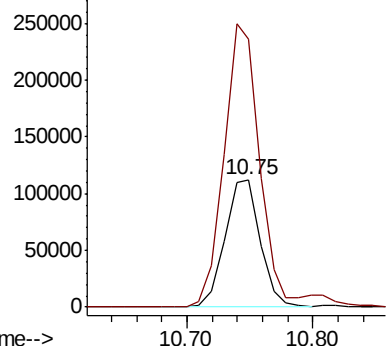
Instrument :
MSVOA_F
ClientSampled :
VSTDICCC050

Tot Ion:106 Resp: 219316
Ion Ratio Lower Upper
106 100
91 209.7 104.8 314.6

Manual Integrations
APPROVED

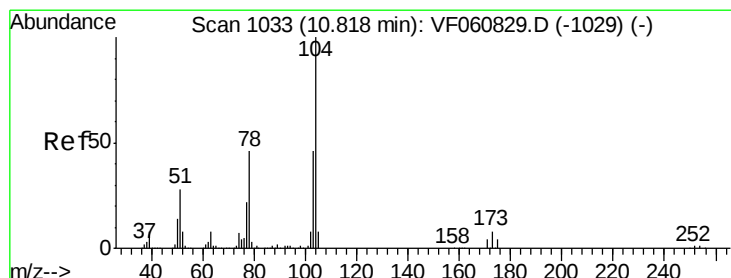
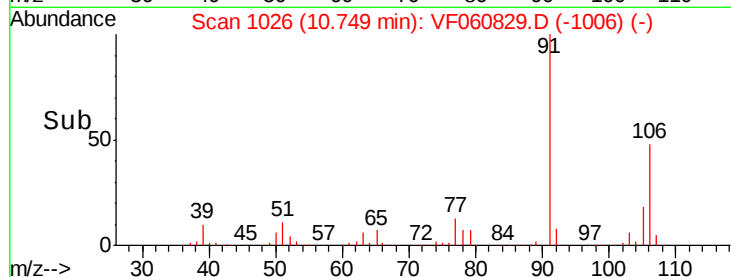


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0



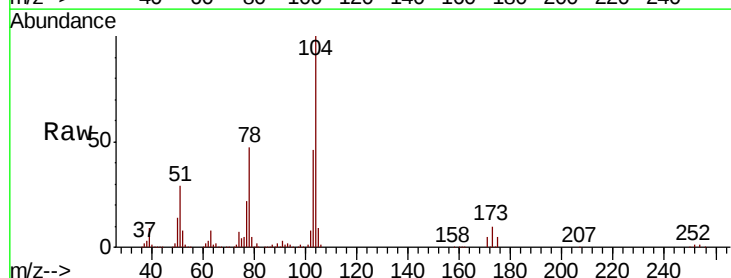
apatel

11/27/2018 3:16:55 PM

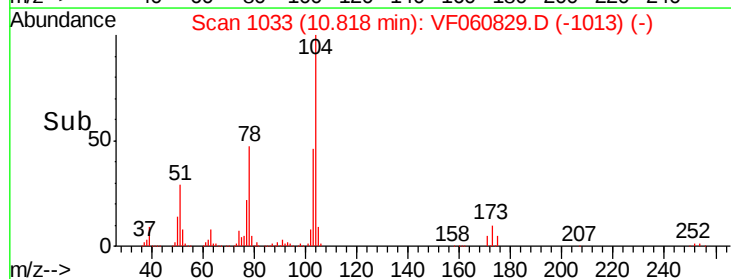
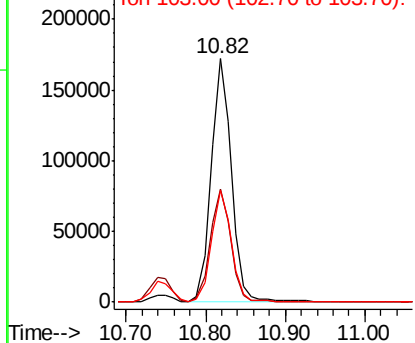


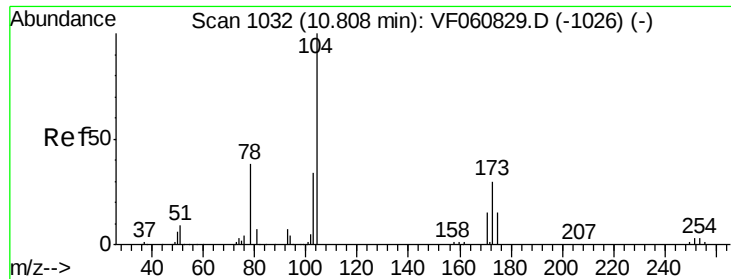
#70
Styrene
Concen: 48.393 ug/l
RT: 10.82 min Scan# 1033
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion:104 Resp: 306450
Ion Ratio Lower Upper
104 100
78 46.6 37.3 55.9
103 46.0 36.8 55.2



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V



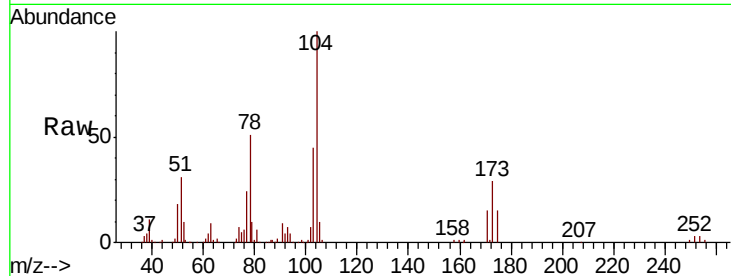


#71
Bromoform
Concen: 52.317 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.0	25.5	76.5
254	9.4	7.5	11.3

Manual Integrations
APPROVED

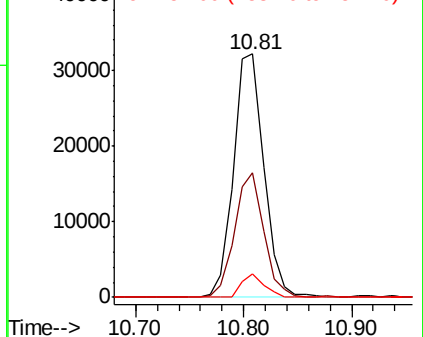


Abundance

Ion 173.00 (172.70 to 173.70): V

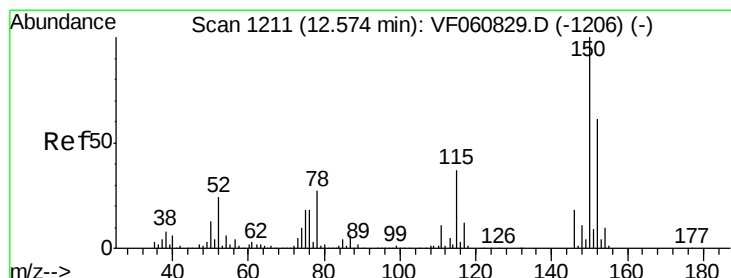
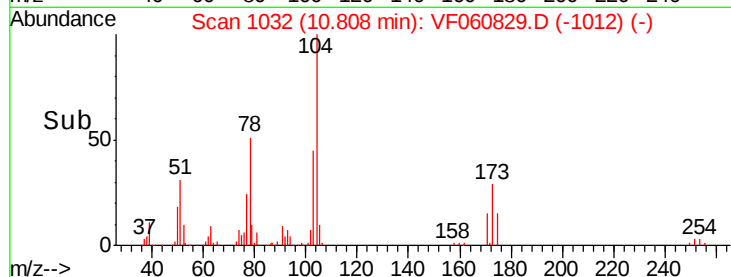
Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



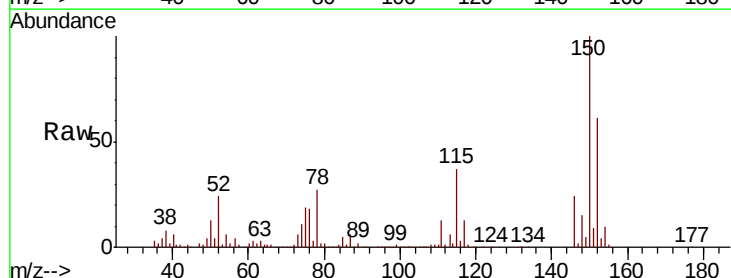
apatel

11/27/2018 3:16:55 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.1	90.5
150	163.8	0.0	327.6

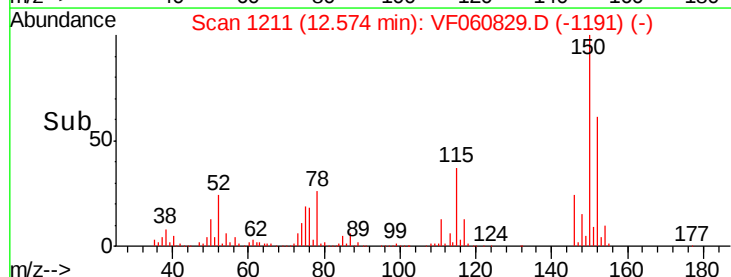
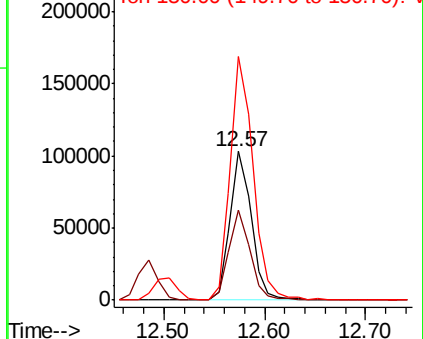


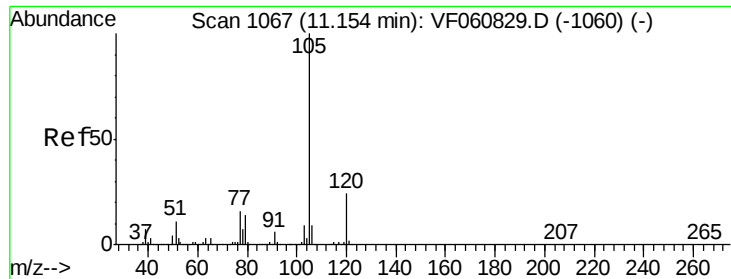
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 51.119 ug/l

RT: 11.15 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

MSVOA_F

ClientSampleId :

VSTDICCC050

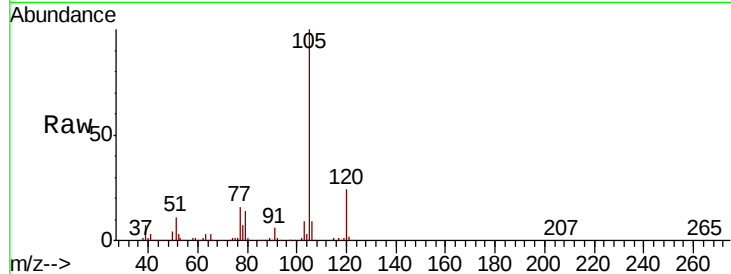
Tot Ion: 105 Resp: 626168

Ion Ratio Lower Upper

105 100

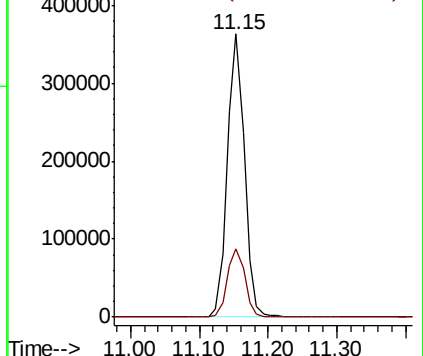
120 24.3 12.2 36.4

Manual Integrations
APPROVED



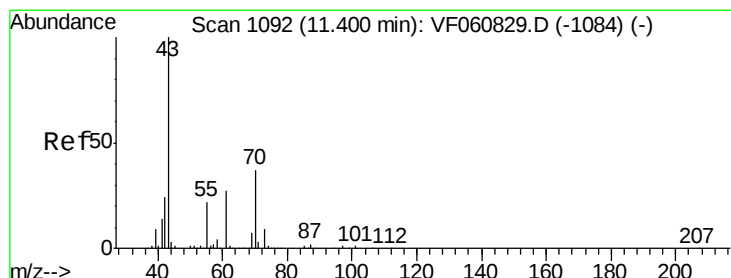
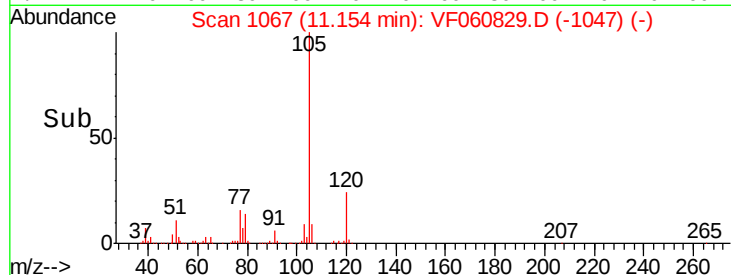
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



apatel

11/27/2018 3:16:55 PM



#74

N-ethyl acetate

Concen: 51.098 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tgt Ion: 43 Resp: 144430

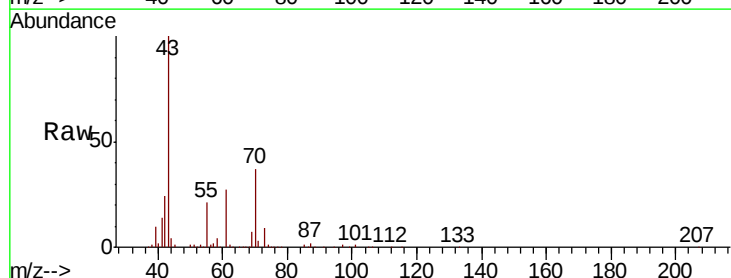
Ion Ratio Lower Upper

43 100

70 37.0 29.6 44.4

55 21.5 17.2 25.8

61 27.2 21.8 32.6

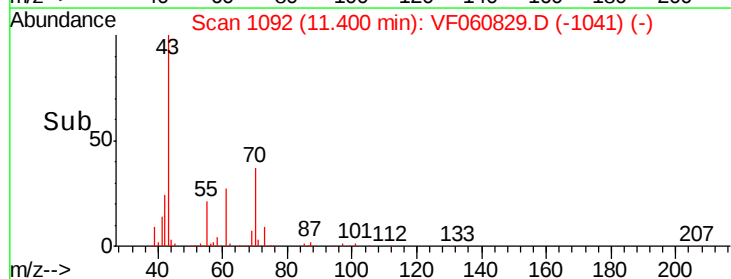
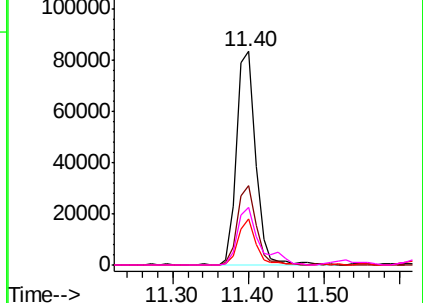


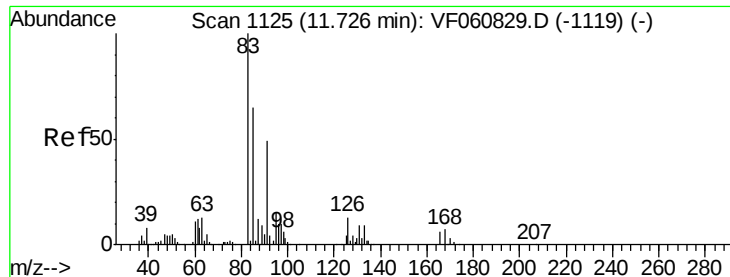
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 51.564 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

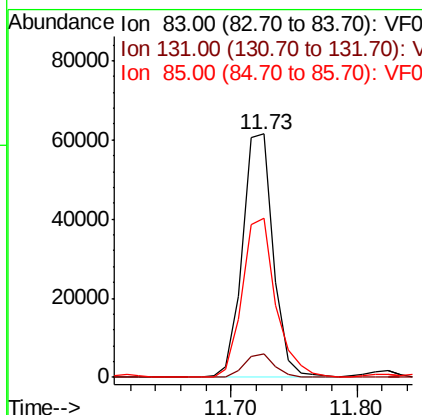
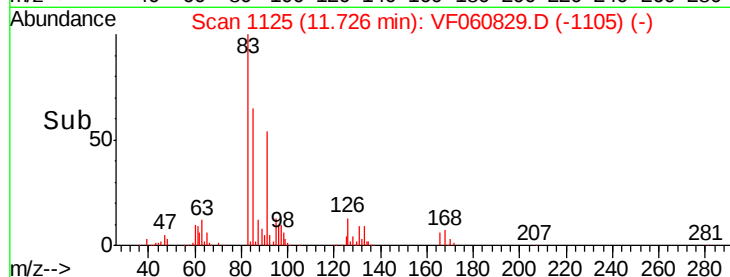
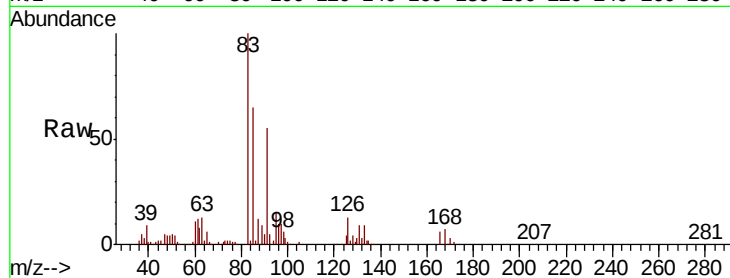
MSVOA_F

ClientSampleId :

VSTDICCC050

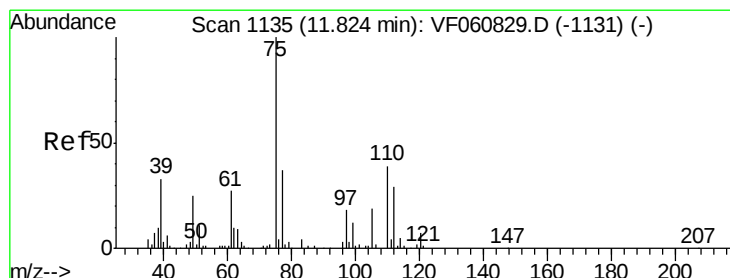
Tot Ion	83	Resp	104078
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.7	14.1
85	65.2	32.6	97.8

Manual Integrations
APPROVED



apatel

11/27/2018 3:16:55 PM



#76

1,2,3-Trichloropropane

Concen: 49.398 ug/l

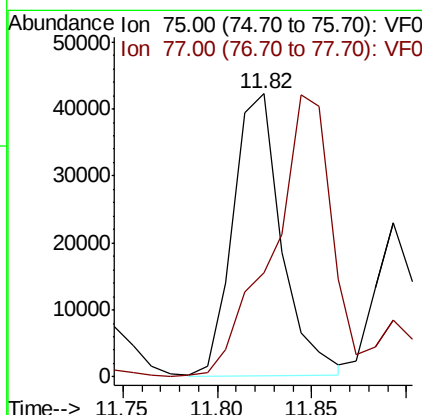
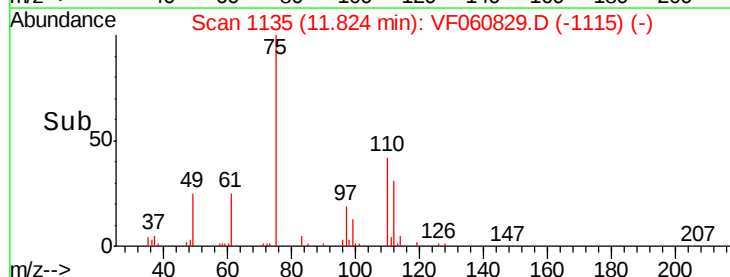
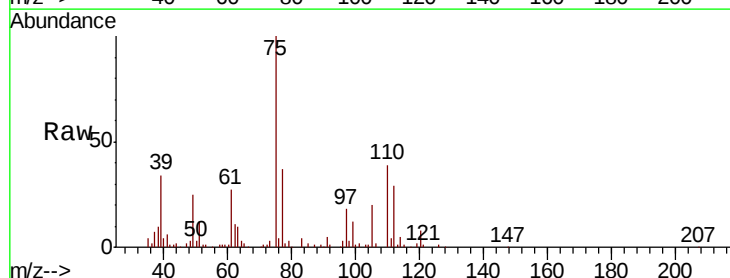
RT: 11.82 min Scan# 1135

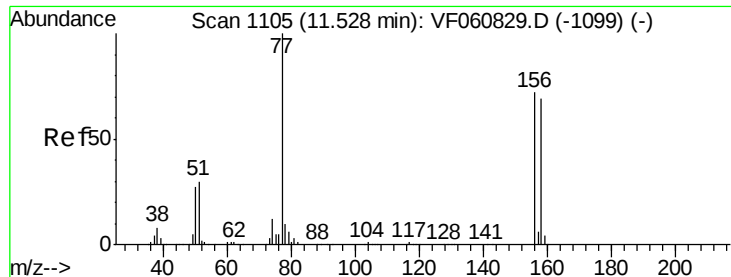
Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tgt Ion	75	Resp	74921
Ion Ratio	100	Lower	Upper
75	100		
77	36.9	18.4	55.4





#77

Bromobenzene

Concen: 55.360 ug/l

RT: 11.53 min Scan# 1105

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

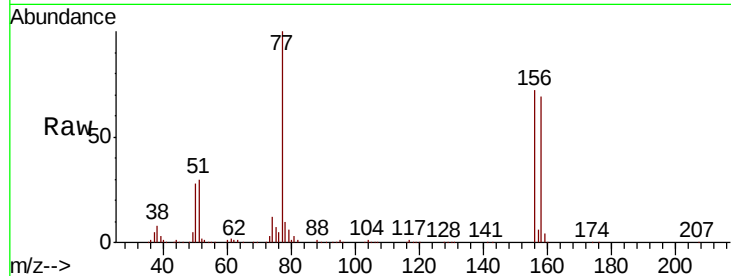
MSVOA_F

ClientSampleId :

VSTDICCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	139.3	69.7	209.0
158	95.6	47.8	143.4

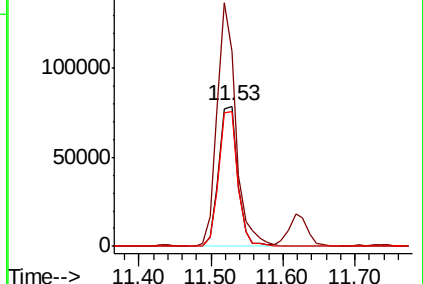
Manual Integrations
APPROVED



Abundance Ion 156.00 (155.70 to 156.70): V

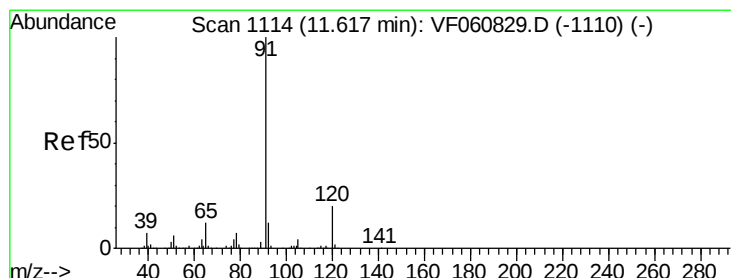
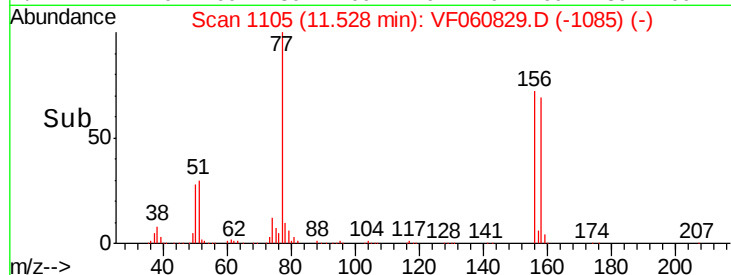
Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



apatel

11/27/2018 3:16:55 PM



#78

n-propylbenzene

Concen: 50.499 ug/l

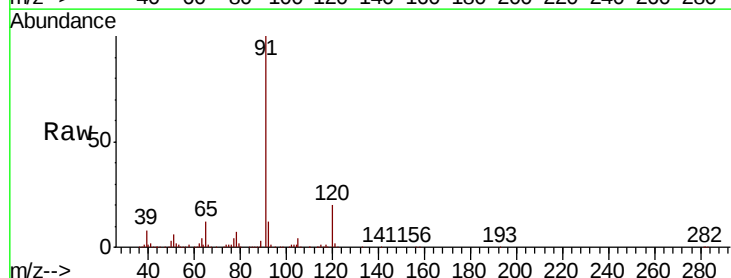
RT: 11.62 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF060829.D

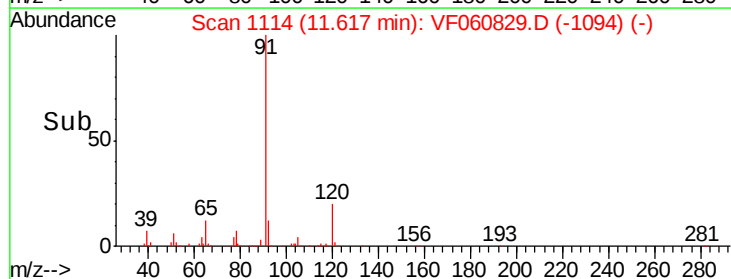
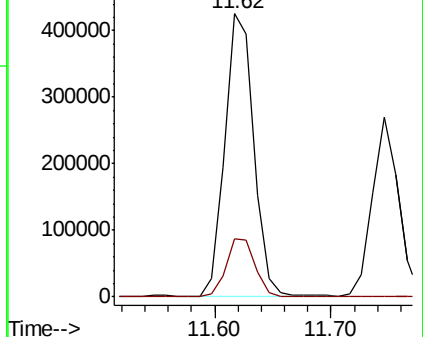
Acq: 26 Nov 2018 18:30

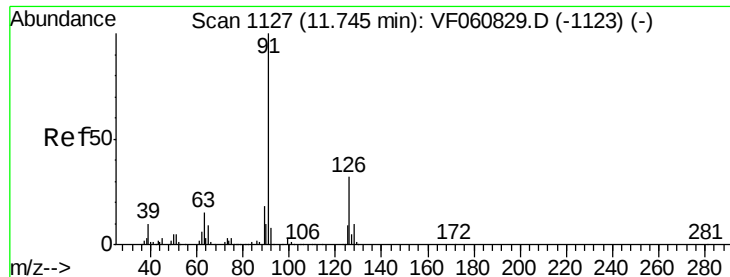
Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.5	10.3	30.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



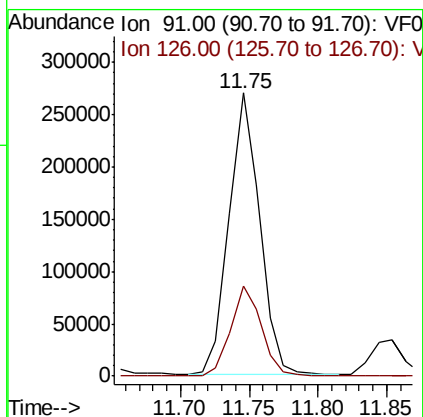
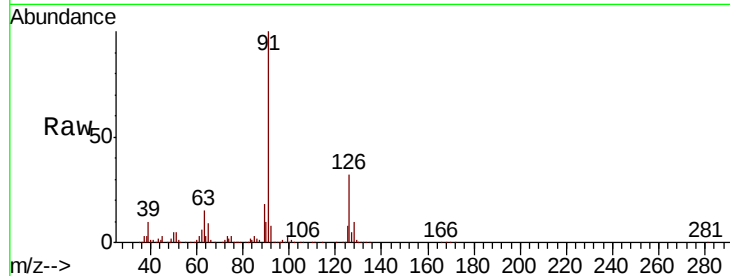


#79
2-Chlorotoluene
Concen: 50.305 ug/l
RT: 11.75 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

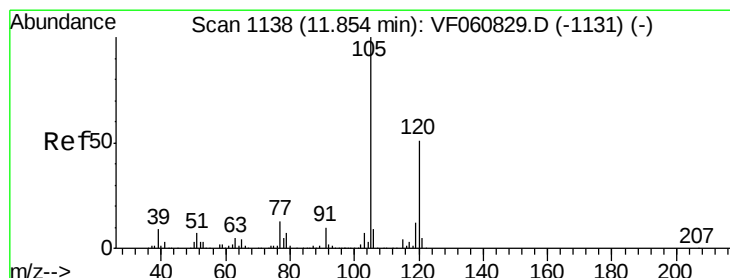
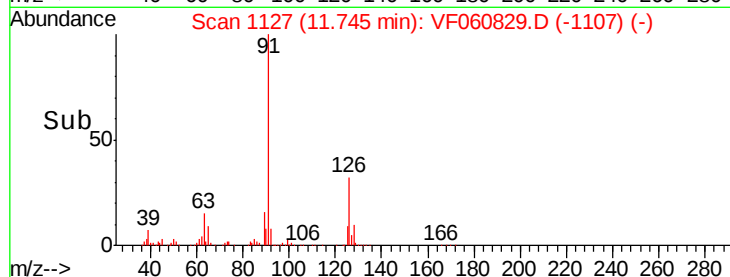
Tot Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.9	47.6

Manual Integrations
APPROVED



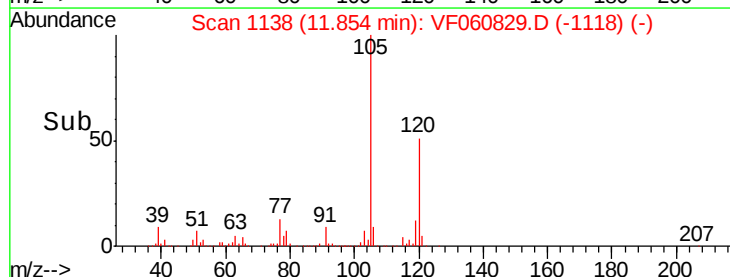
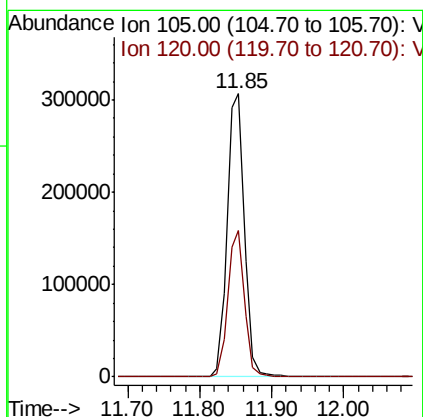
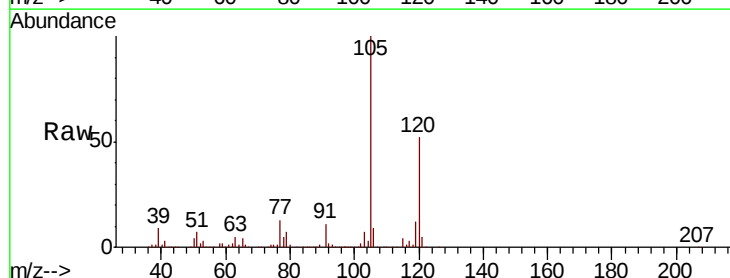
apatel

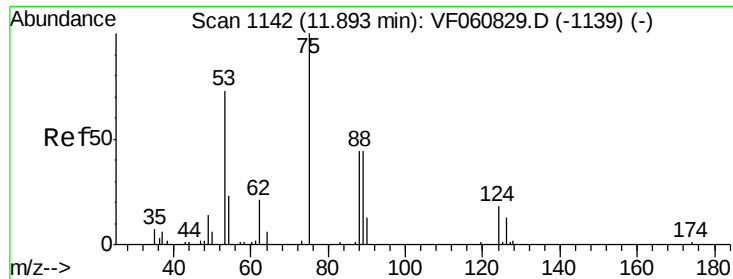
11/27/2018 3:16:55 PM



#80
1,3,5-Trimethylbenzene
Concen: 51.946 ug/l
RT: 11.85 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.5	25.8	77.3



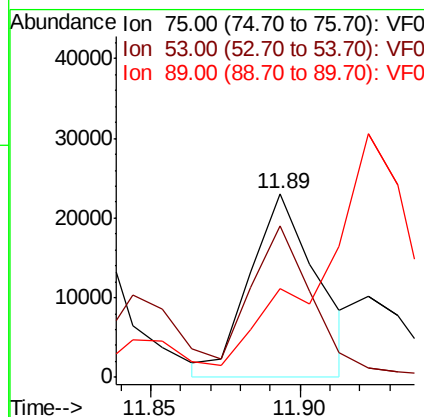
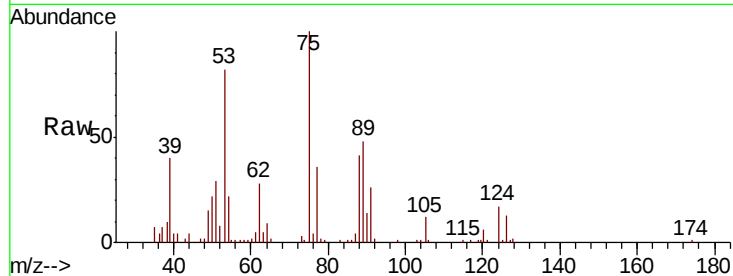


#81
trans-1,4-Dichloro-2-butene
Concen: 49.287 ug/l m
RT: 11.89 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

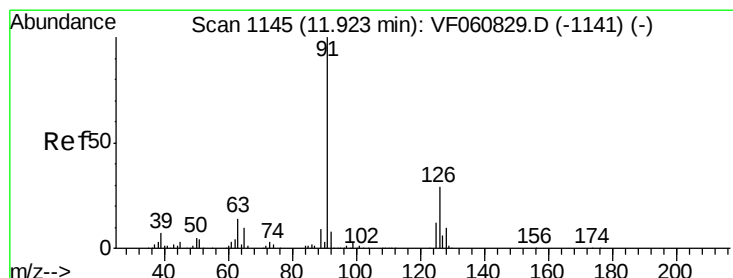
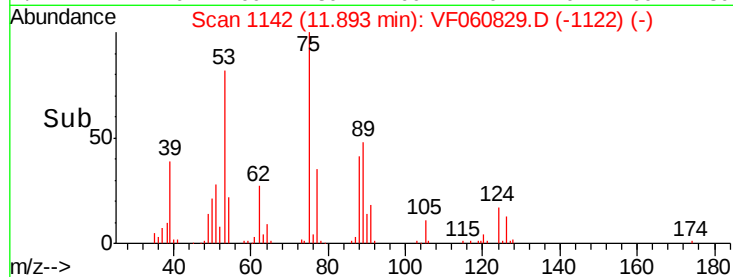
Tot Ion:	75	Resp:	36248
Ion	Ratio	Lower	Upper
75	100		
53	82.4	65.9	98.9
89	48.5	38.8	58.2

Manual Integrations
APPROVED



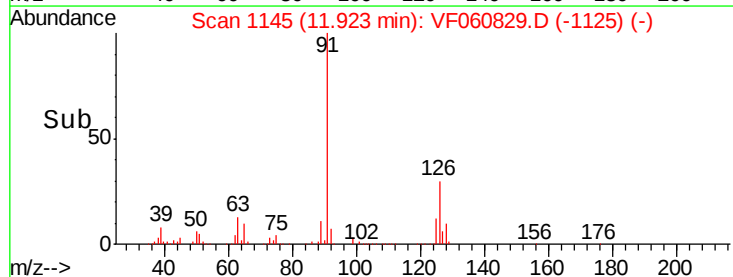
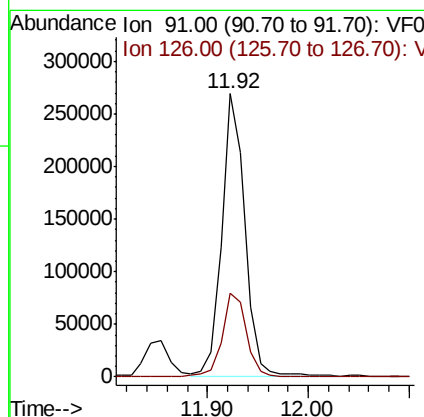
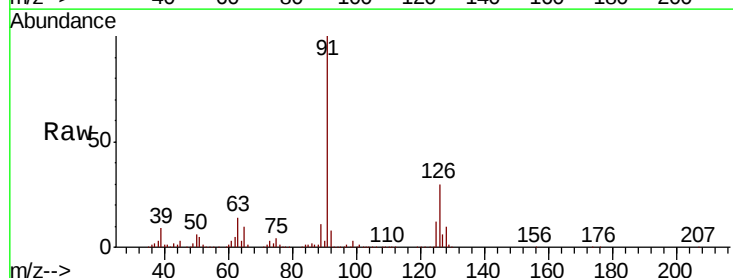
apatel

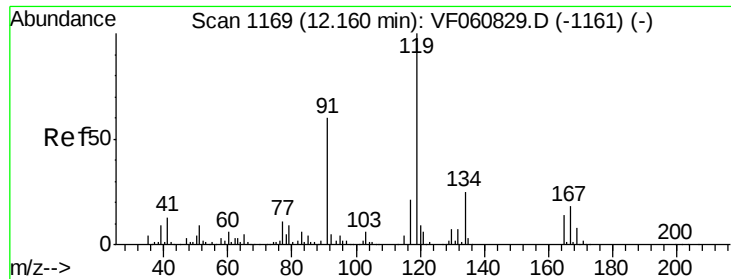
11/27/2018 3:16:55 PM



#82
4-Chlorotoluene
Concen: 49.983 ug/l
RT: 11.92 min Scan# 1145
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion:	91	Resp:	427214
Ion	Ratio	Lower	Upper
91	100		
126	29.6	14.8	44.4



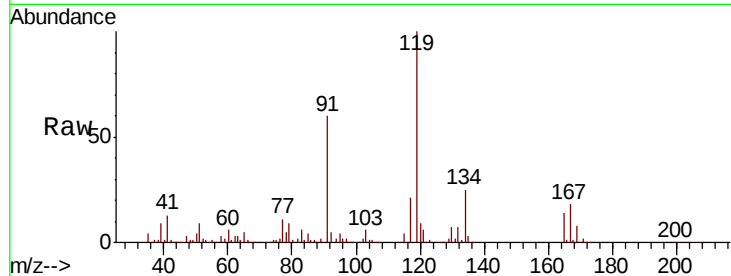


#83
tert-Butylbenzene
Concen: 49.833 ug/l
RT: 12.16 min Scan# 1169
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	509176		
91	60.2		30.1	90.3
134	25.2		12.6	37.8

Manual Integrations
APPROVED

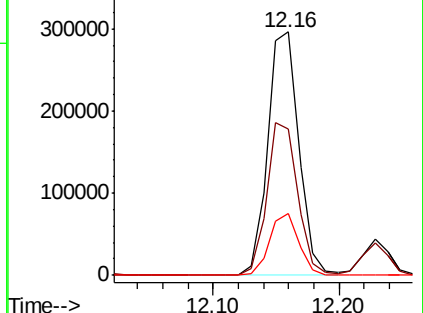
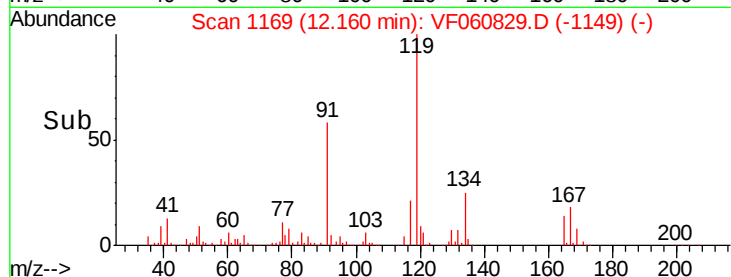


Abundance

Ion 119.00 (118.70 to 119.70): V

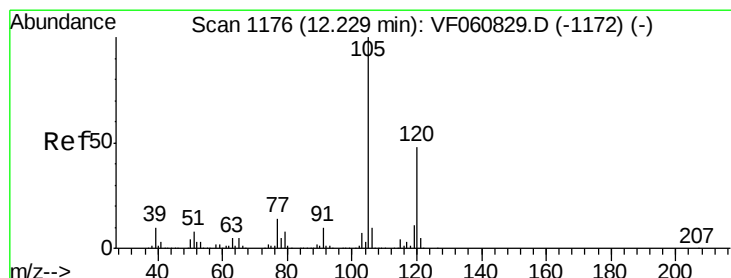
Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



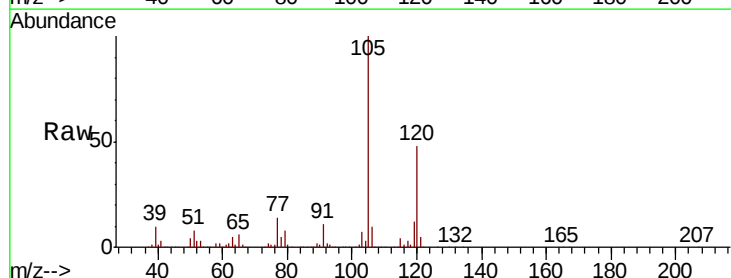
apatel

11/27/2018 3:16:55 PM



#84
1,2,4-Trimethylbenzene
Concen: 51.365 ug/l
RT: 12.23 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

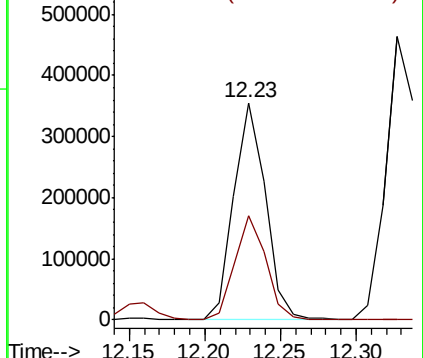
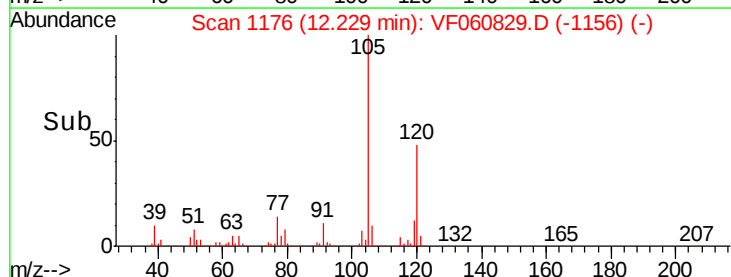
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	519918		
120	47.7		23.8	71.5

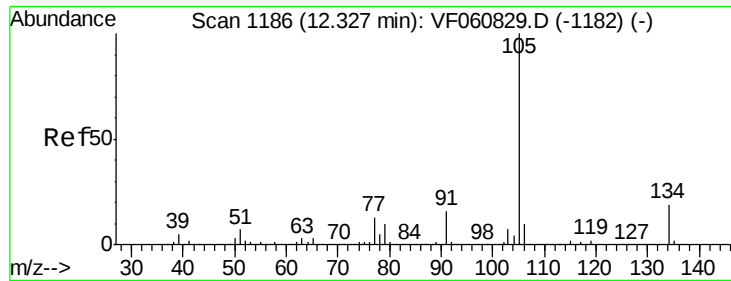


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



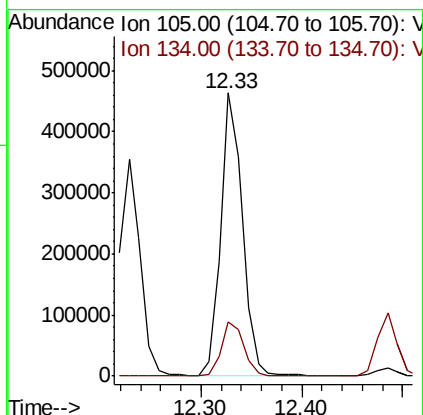
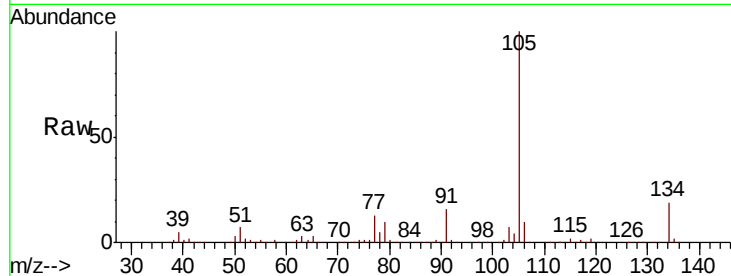


#85
 sec-Butylbenzene
 Concen: 49.891 ug/l
 RT: 12.33 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

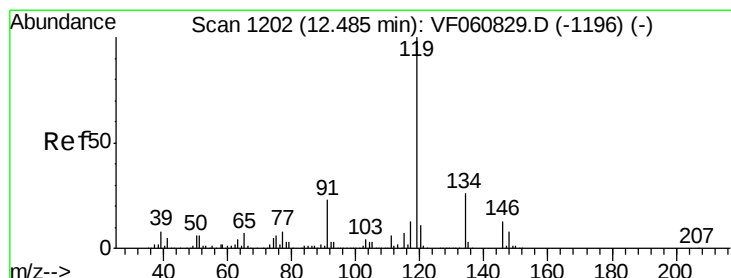
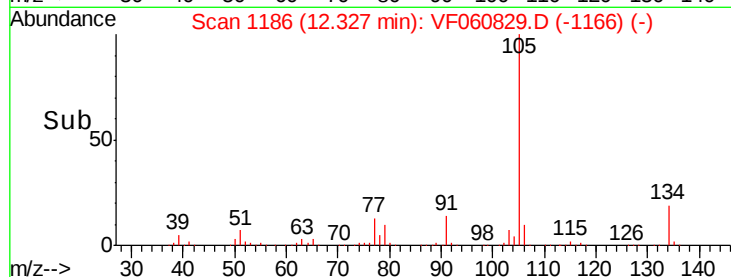
Tot Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.5	28.5

Manual Integrations
 APPROVED



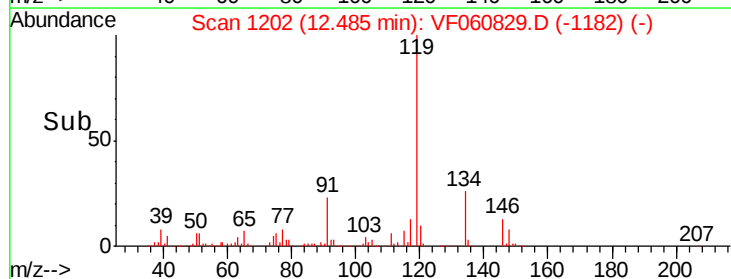
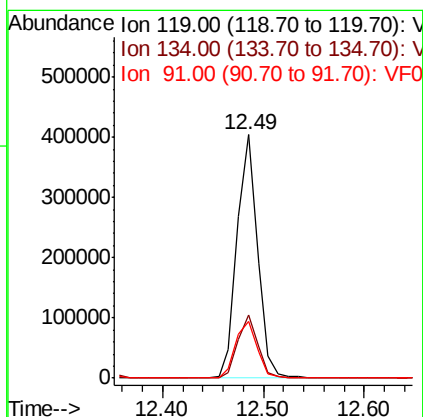
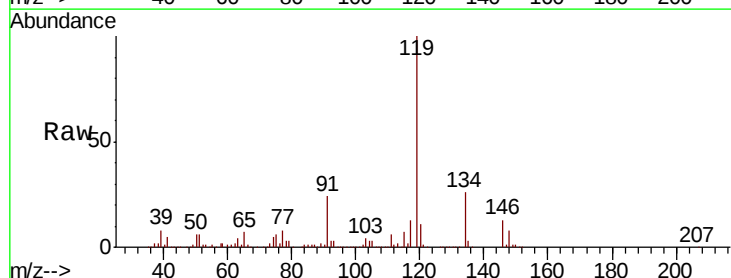
apatel

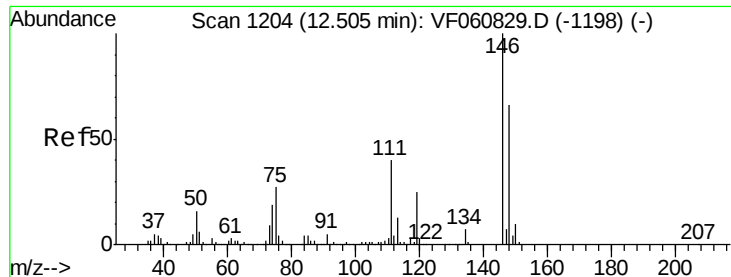
11/27/2018 3:16:55 PM



#86
 p-Isopropyltoluene
 Concen: 49.209 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.9	38.6
91	23.5	11.8	35.3





#87

1,3-Dichlorobenzene

Concen: 50.340 ug/l

RT: 12.50 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

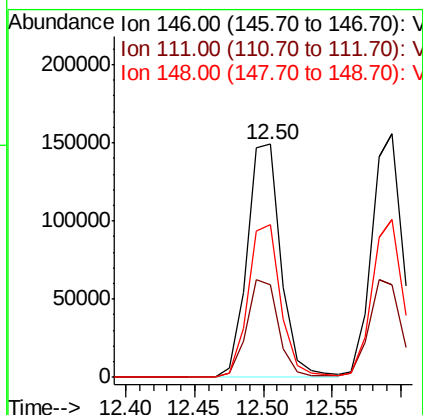
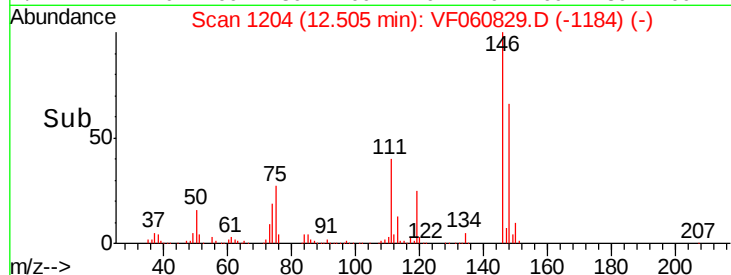
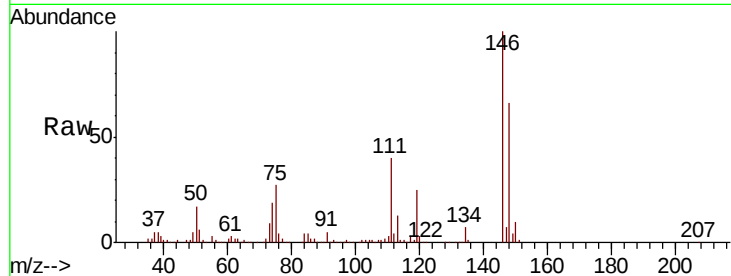
MSVOA_F

ClientSampleId :

VSTDICCC050

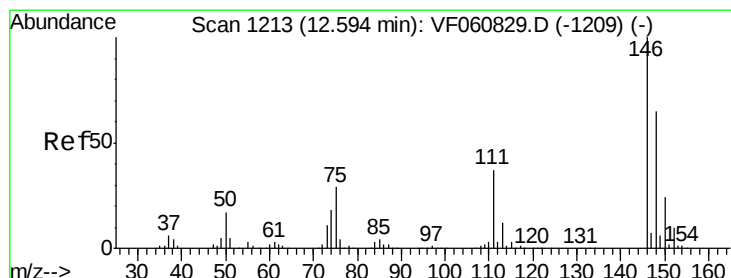
Tot Ion:	146	Resp:	256419
Ion Ratio	Lower	Upper	
146	100		
111	39.9	20.0	59.9
148	65.7	32.9	98.6

Manual Integrations
APPROVED



apatel

11/27/2018 3:16:55 PM



#88

1,4-Dichlorobenzene

Concen: 51.414 ug/l

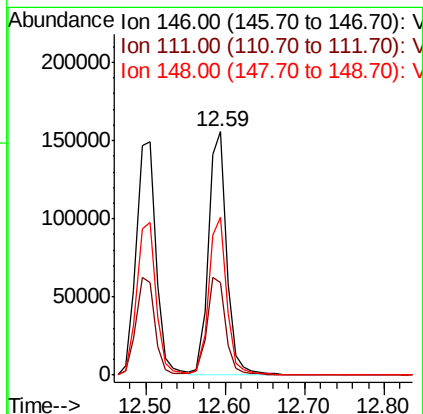
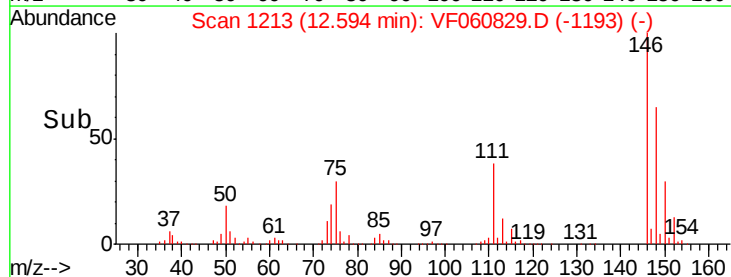
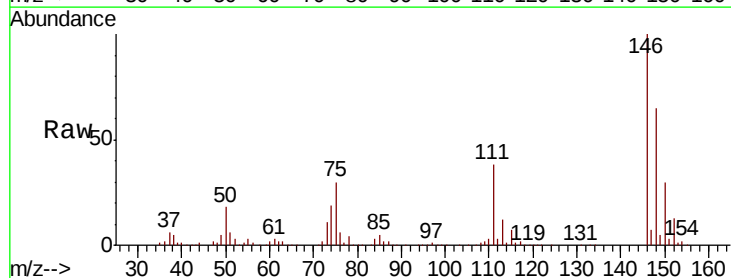
RT: 12.59 min Scan# 1213

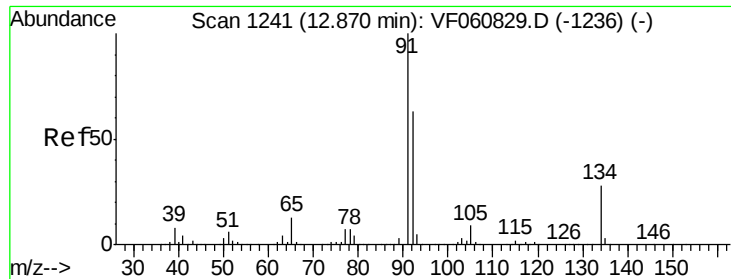
Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tgt Ion:	146	Resp:	250902
Ion Ratio	Lower	Upper	
146	100		
111	37.8	18.9	56.7
148	64.6	32.3	96.9



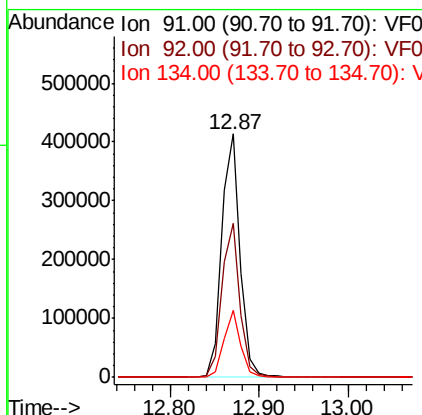
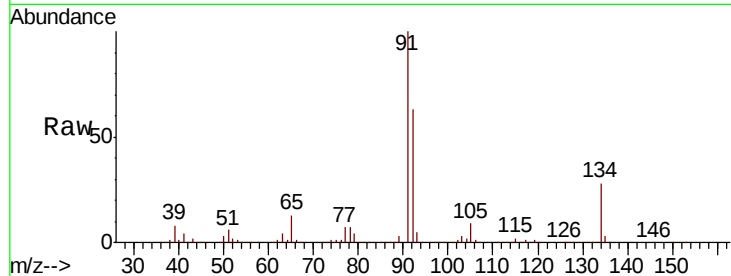


#89
n-Butylbenzene
Concen: 50.008 ug/l
RT: 12.87 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Instrument :
MSVOA_F
ClientSampleId :
VSTDICCC050

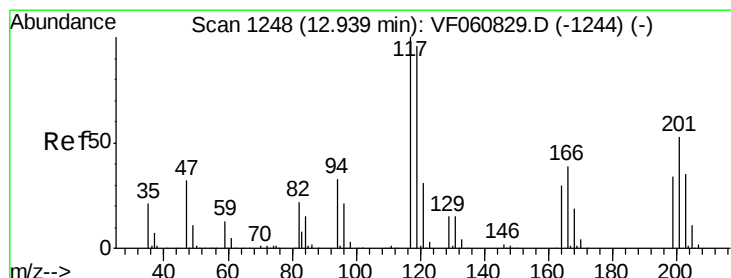
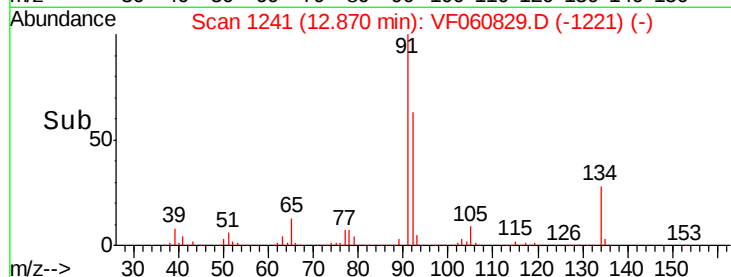
Tot Ion	Ratio	Lower	Upper
91	100		
92	63.1	31.6	94.7
134	27.6	13.8	41.4

Manual Integrations
APPROVED



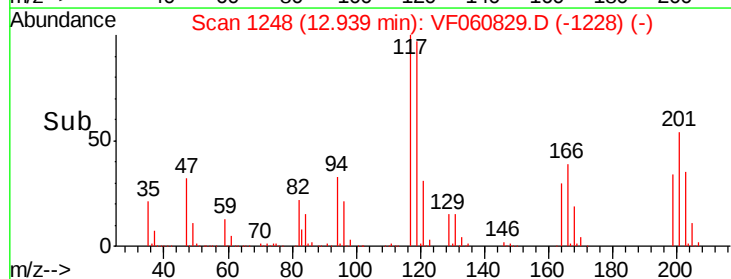
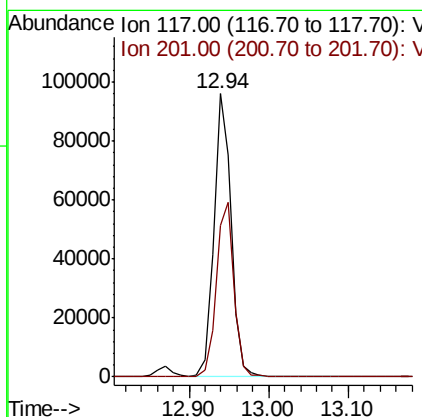
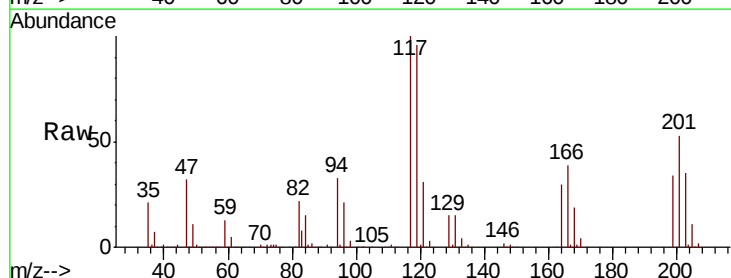
apatel

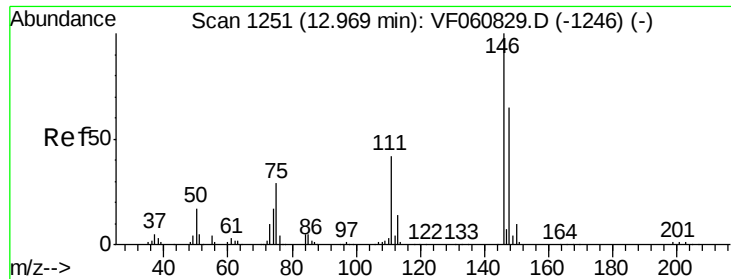
11/27/2018 3:16:55 PM



#90
Hexachloroethane
Concen: 51.747 ug/l
RT: 12.94 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VF060829.D
Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
117	100		
201	53.4	26.7	80.1



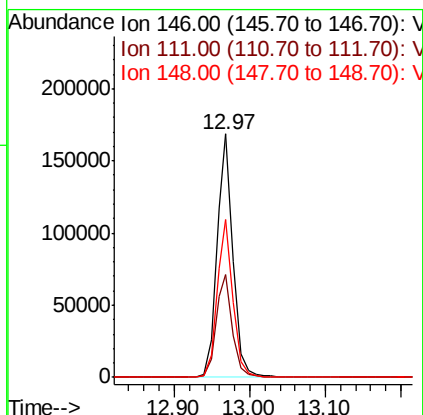
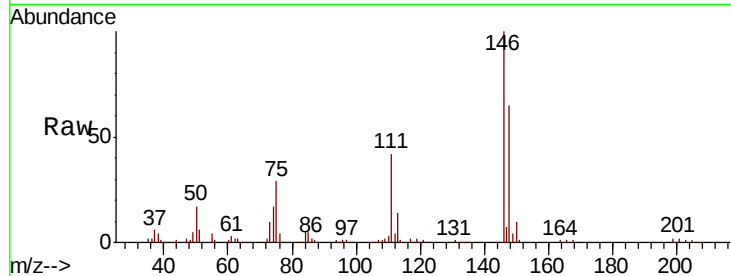


#91
 1,2-Dichlorobenzene
 Concen: 51.799 ug/l
 RT: 12.97 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

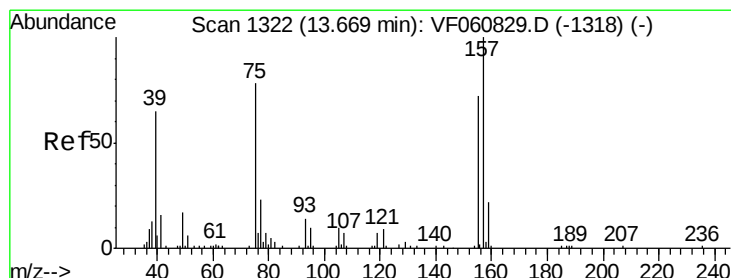
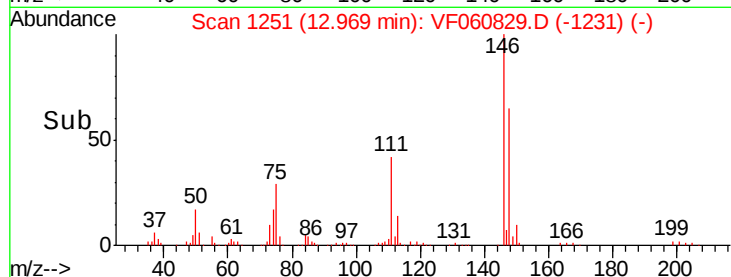
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	65.0	32.5	97.5

Manual Integrations
 APPROVED



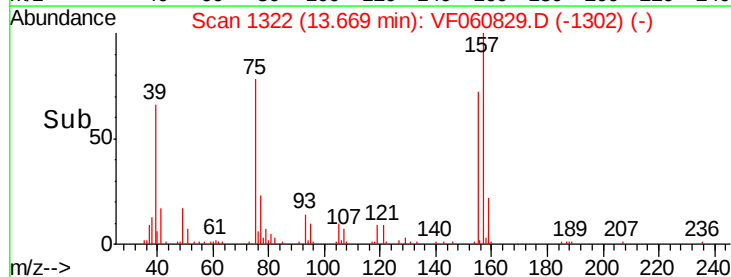
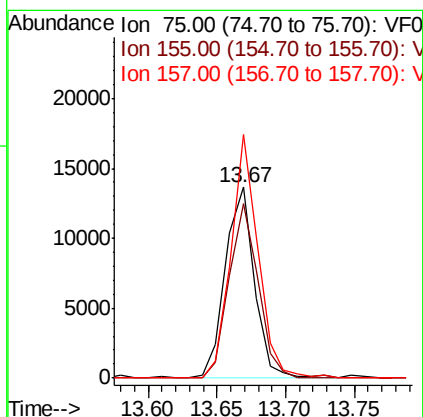
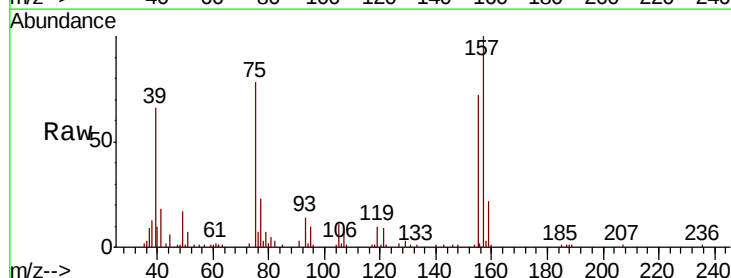
apatel

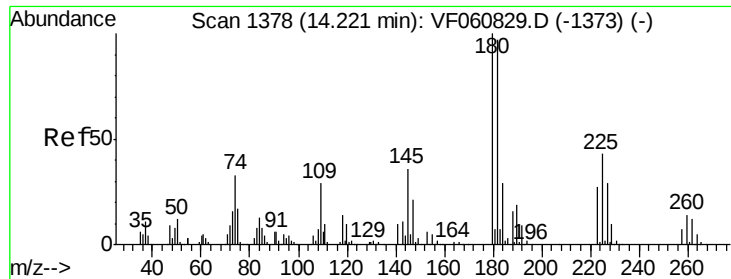
11/27/2018 3:16:55 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 53.172 ug/l
 RT: 13.67 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.3	45.6	136.9
157	127.7	63.8	191.5



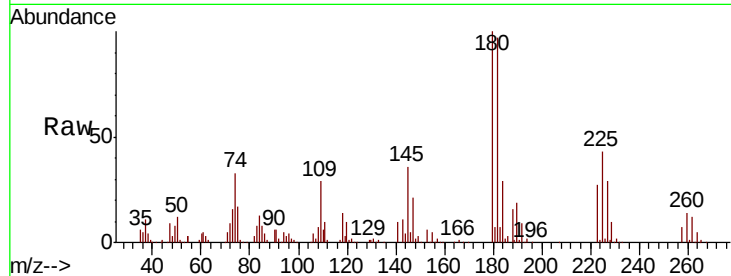


#93
 1,2,4-Trichlorobenzene
 Concen: 50.509 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.5	145.5
145	36.2	18.1	54.3

Manual Integrations
 APPROVED



Abundance

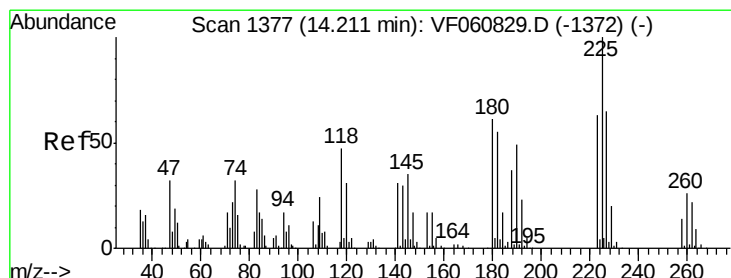
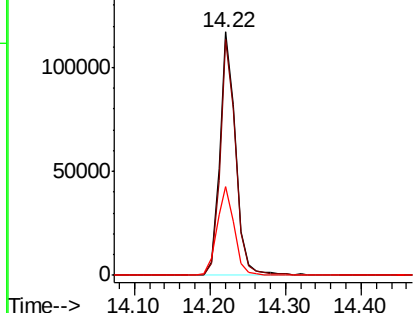
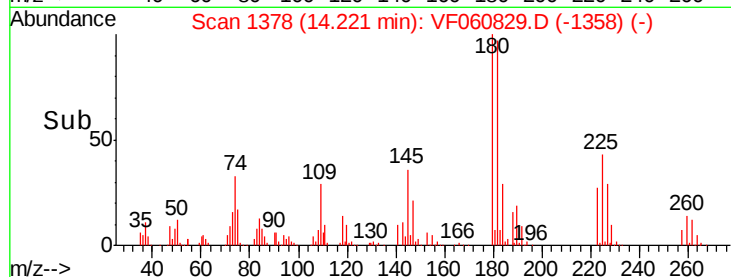
Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

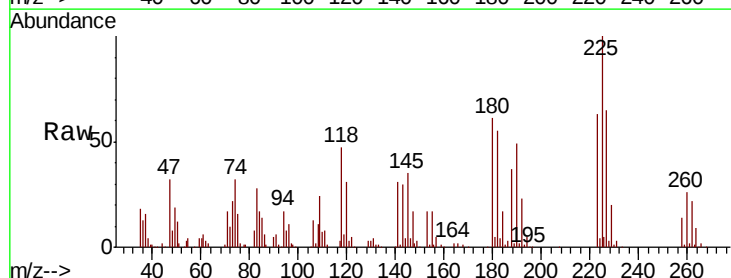
apatel

11/27/2018 3:16:55 PM



#94
 Hexachlorobutadiene
 Concen: 51.262 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF060829.D
 Acq: 26 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.4	94.3
227	65.0	32.5	97.5

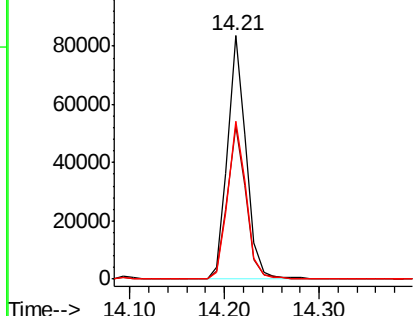
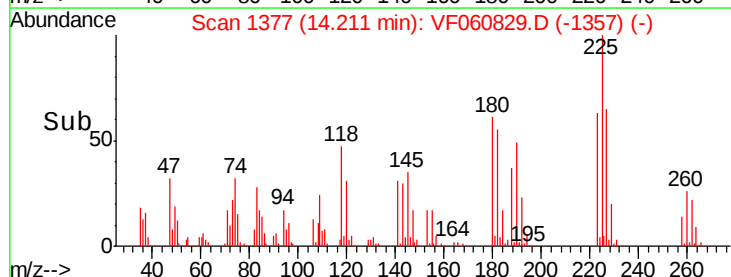


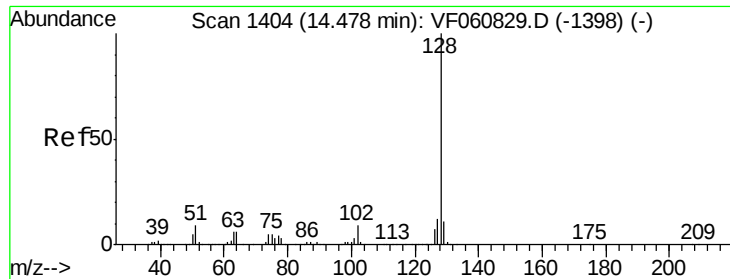
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 54.658 ug/l

RT: 14.48 min Scan# 1404

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Instrument :

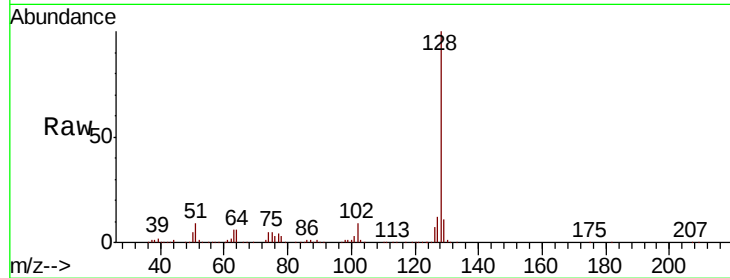
MSVOA_F

ClientSampleId :

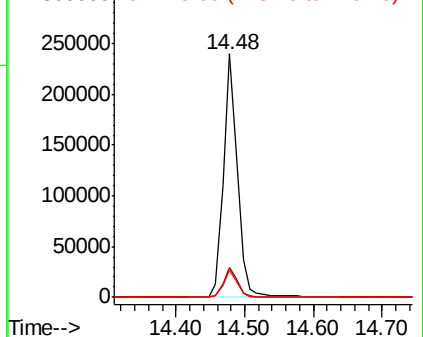
VSTDICCC050

Tot Ion:	128	Resp:	341737
Ion Ratio		Lower	Upper
128	100		
127	12.4	9.9	14.9
129	11.4	9.1	13.7

Manual Integrations
APPROVED

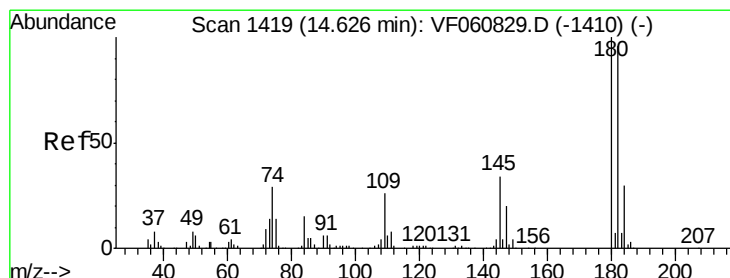
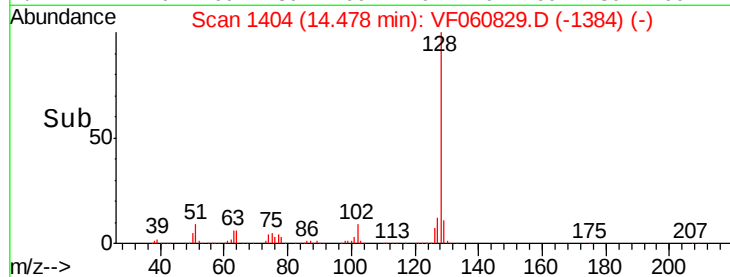


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



apatel

11/27/2018 3:16:55 PM



#96

1,2,3-Trichlorobenzene

Concen: 51.413 ug/l

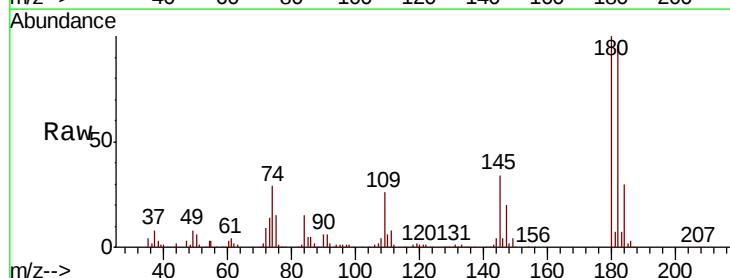
RT: 14.63 min Scan# 1419

Delta R.T. 0.00 min

Lab File: VF060829.D

Acq: 26 Nov 2018 18:30

Tgt Ion:	180	Resp:	161000
Ion Ratio		Lower	Upper
180	100		
182	95.9	47.9	143.8
145	34.3	17.2	51.5



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

