

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\
 Data File : VF060887.D
 Acq On : 3 Dec 2018 12:50
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 12/4/2018 2:47:13 PM

Quant Time: Dec 04 03:22:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	194053	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	292015	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.80	117	295707	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	151282	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	115799	50.66	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	101.32%	
35) Dibromofluoromethane	4.14	113	119890	51.75	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	103.50%	
50) Toluene-d8	7.58	98	356401	52.23	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	104.46%	
62) 4-Bromofluorobenzene	11.42	95	156663	50.51	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	101.02%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	135590	46.731	ug/l	99
3) Chloromethane	1.12	50	87232	46.202	ug/l #	87
4) Vinyl Chloride	1.15	62	82517	46.855	ug/l	96
5) Bromomethane	1.33	94	62406	50.253	ug/l	90
6) Chloroethane	1.38	64	36725	48.241	ug/l	97
7) Trichlorofluoromethane	1.49	101	191877	50.779	ug/l	99
8) Diethyl Ether	1.64	74	25151	46.288	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.84	101	96606	50.571	ug/l	92
10) Methyl Iodide	1.91	142	143946m	49.574	ug/l	
11) Tert butyl alcohol	2.59	59	25022	267.018	ug/l	97
12) 1,1-Dichloroethene	1.80	96	72645	47.279	ug/l	98
13) Acrolein	2.01	56	18453	207.836	ug/l	98
14) Allyl chloride	2.10	41	82719	43.192	ug/l	99
15) Acrylonitrile	2.96	53	51072	243.098	ug/l	93
16) Acetone	2.25	43	123521	293.014	ug/l	100
17) Carbon Disulfide	1.85	76	182498	44.297	ug/l	98
18) Methyl Acetate	2.36	43	40751	57.881	ug/l	97
19) Methyl tert-butyl Ether	2.44	73	176146	50.899	ug/l	94
20) Methylene Chloride	2.26	84	67665m	43.754	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	67496m	45.564	ug/l	
22) Diisopropyl ether	2.81	45	261348	50.134	ug/l	98
23) Vinyl Acetate	3.20	43	614614	257.926	ug/l	98
24) 1,1-Dichloroethane	2.88	63	159460	51.413	ug/l	97
25) 2-Butanone	4.35	43	189331	259.664	ug/l	100
26) 2,2-Dichloropropane	3.61	77	103918	51.681	ug/l	97
27) cis-1,2-Dichloroethene	3.49	96	120895	50.130	ug/l	98
28) Bromochloromethane	3.73	49	73551	49.413	ug/l	89
29) Tetrahydrofuran	4.10	42	75797	245.241	ug/l	95
30) Chloroform	3.88	83	238856	50.039	ug/l	100
31) Cyclohexane	3.71	56	146856m	45.624	ug/l	
32) 1,1,1-Trichloroethane	4.12	97	175122m	52.899	ug/l	
36) 1,1-Dichloropropene	4.30	75	177576	54.826	ug/l	98
37) Ethyl Acetate	4.14	43	71153	54.059	ug/l #	87
38) Carbon Tetrachloride	4.01	117	162770	56.897	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\
 Data File : VF060887.D
 Acq On : 3 Dec 2018 12:50
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 12/4/2018 2:47:13 PM

Quant Time: Dec 04 03:22:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	166948	49.184	ug/l	98
40) Benzene	4.65	78	378215	52.857	ug/l	99
41) Methacrylonitrile	4.77	41	36357	53.632	ug/l	96
42) 1,2-Dichloroethane	4.96	62	152131	58.236	ug/l	96
43) Isopropyl Acetate	6.98	43	100432	62.525	ug/l #	97
44) Trichloroethene	5.53	130	119652	51.142	ug/l	100
45) 1,2-Dichloropropane	6.26	63	102702	55.264	ug/l	99
46) Dibromomethane	6.11	93	69423	55.069	ug/l	97
47) Bromodichloromethane	6.40	83	182443	54.488	ug/l	93
48) Methyl methacrylate	6.74	41	64644	54.259	ug/l	99
49) 1,4-Dioxane	6.72	88	10182	1167.723	ug/l	94
51) 4-Methyl-2-Pentanone	8.28	43	336066	276.880	ug/l	96
52) Toluene	7.65	92	253047	50.347	ug/l	94
53) t-1,3-Dichloropropene	8.30	75	151973	55.800	ug/l	99
54) cis-1,3-Dichloropropene	7.32	75	191163	56.697	ug/l	99
55) 1,1,2-Trichloroethane	8.51	97	77117	52.656	ug/l	94
56) Ethyl methacrylate	8.64	69	94836	58.292	ug/l	99
57) 1,3-Dichloropropane	8.87	76	145091	56.626	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.31	63	38089	228.886	ug/l	100
59) 2-Hexanone	9.51	43	244413	287.029	ug/l	100
60) Dibromochloromethane	8.73	129	118844	54.462	ug/l	97
61) 1,2-Dibromoethane	9.01	107	78698	49.742	ug/l	95
64) Tetrachloroethene	8.17	164	109054	48.284	ug/l	95
65) Chlorobenzene	9.82	112	291398	50.655	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.95	131	122755	49.637	ug/l	98
67) Ethyl Benzene	9.92	91	537551	50.193	ug/l	98
68) m/p-Xylenes	10.15	106	375721	97.543	ug/l	98
69) o-Xylene	10.73	106	207774	48.917	ug/l	95
70) Styrene	10.80	104	288113	48.933	ug/l	96
71) Bromoform	10.79	173	64823	54.265	ug/l #	93
73) Isopropylbenzene	11.14	105	621461	51.983	ug/l	100
74) N-amyl acetate	11.39	43	145777	52.806	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.71	83	103717	52.714	ug/l	99
76) 1,2,3-Trichloropropane	11.81	75	74006	51.747	ug/l	94
77) Bromobenzene	11.51	156	136398	52.040	ug/l	93
78) n-propylbenzene	11.61	91	712379	50.883	ug/l	96
79) 2-Chlorotoluene	11.73	91	423886	52.803	ug/l	95
80) 1,3,5-Trimethylbenzene	11.84	105	495795	51.085	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.88	75	38523m	54.977	ug/l	
82) 4-Chlorotoluene	11.92	91	423719	50.156	ug/l	94
83) tert-Butylbenzene	12.14	119	508704	51.456	ug/l	98
84) 1,2,4-Trimethylbenzene	12.22	105	488259	50.408	ug/l	100
85) sec-Butylbenzene	12.32	105	664150	49.074	ug/l	98
86) p-Isopropyltoluene	12.47	119	565485	49.838	ug/l	97
87) 1,3-Dichlorobenzene	12.49	146	239904	48.120	ug/l	98
88) 1,4-Dichlorobenzene	12.58	146	246989	50.835	ug/l	97
89) n-Butylbenzene	12.86	91	586401	51.111	ug/l	97
90) Hexachloroethane	12.93	117	139608	51.096	ug/l	83
91) 1,2-Dichlorobenzene	12.95	146	238240	50.461	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	19236	50.567	ug/l	84

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\
Data File : VF060887.D
Acq On : 3 Dec 2018 12:50
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

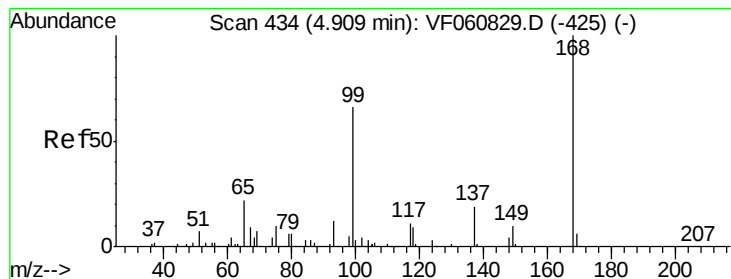
Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM

Quant Time: Dec 04 03:22:01 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	175230	53.118	ug/l	97
94) Hexachlorobutadiene	14.21	225	115137	52.356	ug/l	99
95) Naphthalene	14.47	128	329119	51.507	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	160834	52.507	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 194053

Ion Ratio Lower Upper

168 100

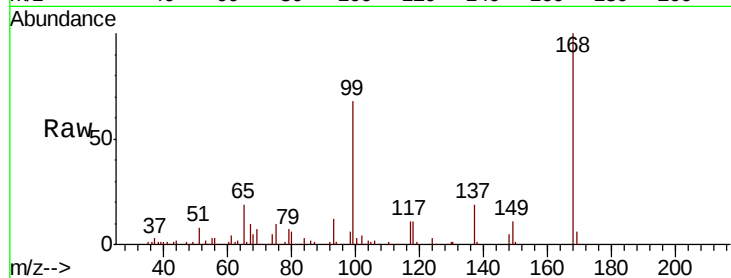
99 67.6 52.6 79.0

Manual Integrations

APPROVED

apatel

12/4/2018 2:47:13 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

60000

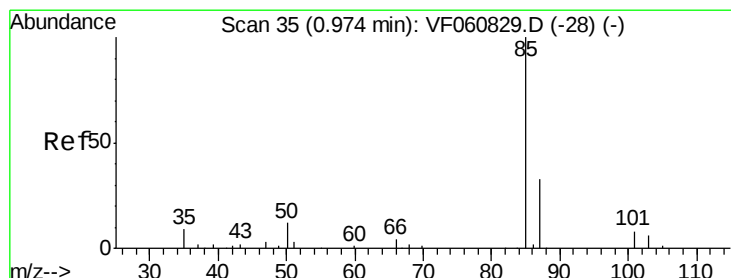
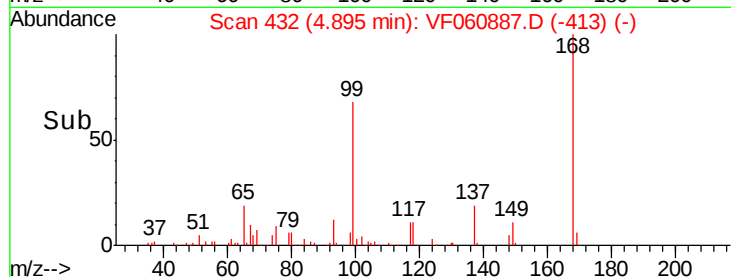
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 46.731 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF060887.D

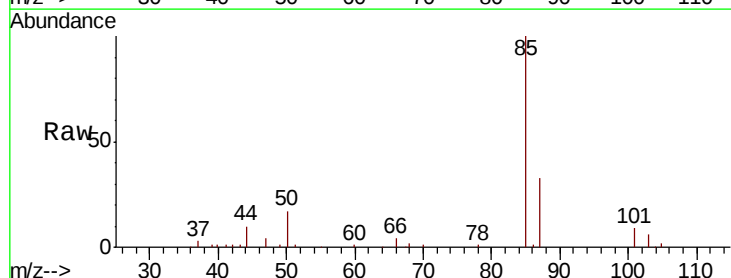
Acq: 3 Dec 2018 12:50

Tgt Ion: 85 Resp: 135590

Ion Ratio Lower Upper

85 100

87 32.7 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

40000

30000

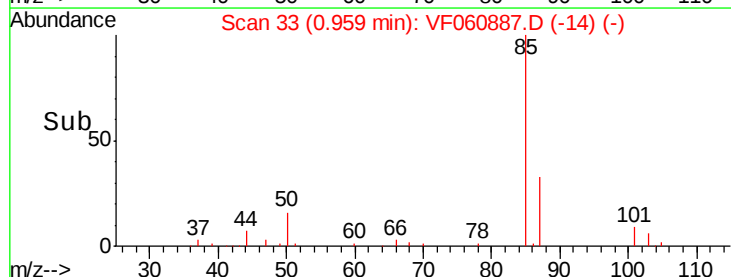
20000

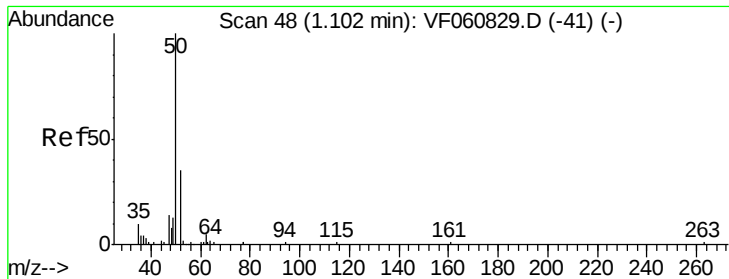
10000

0

Time-->

0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 46.202 ug/l

RT: 1.12 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 87232

Ion Ratio Lower Upper

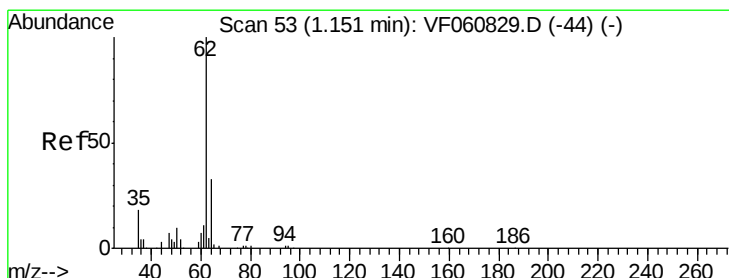
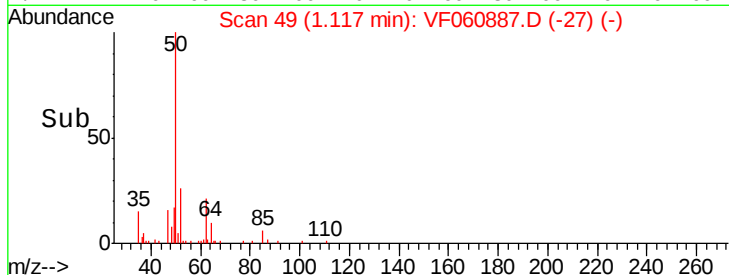
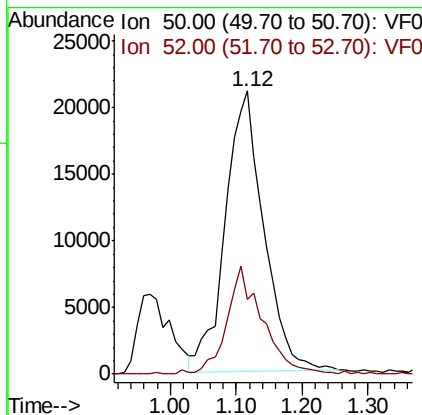
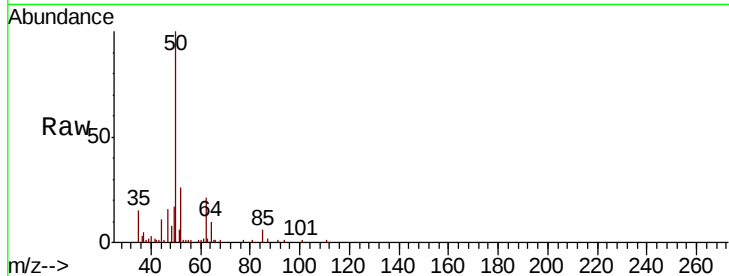
50 100

52 26.4 27.0 40.4#

Manual Integrations
APPROVED

apatel

12/4/2018 2:47:13 PM



#4

Vinyl Chloride

Concen: 46.855 ug/l

RT: 1.15 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060887.D

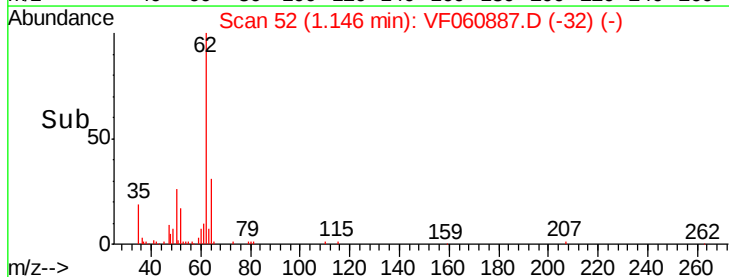
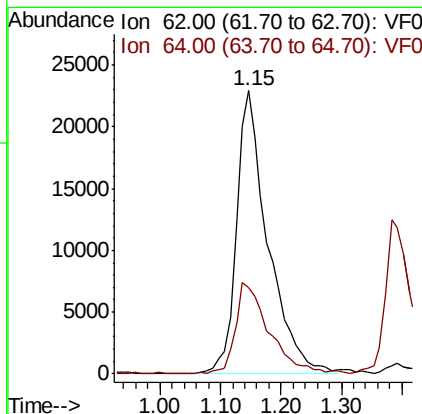
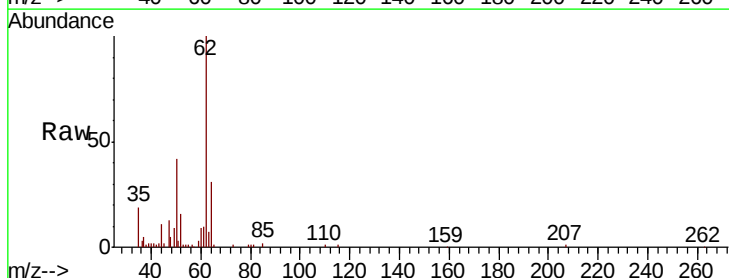
Acq: 3 Dec 2018 12:50

Tgt Ion: 62 Resp: 82517

Ion Ratio Lower Upper

62 100

64 30.6 26.4 39.6





#5

Bromomethane

Concen: 50.253 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 62406

Ion Ratio Lower Upper

94 100

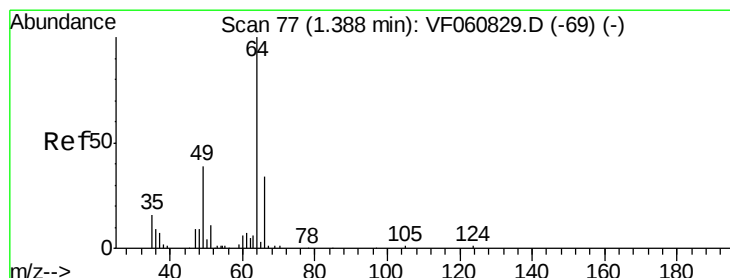
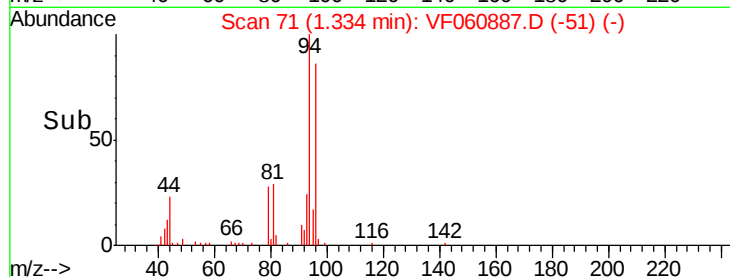
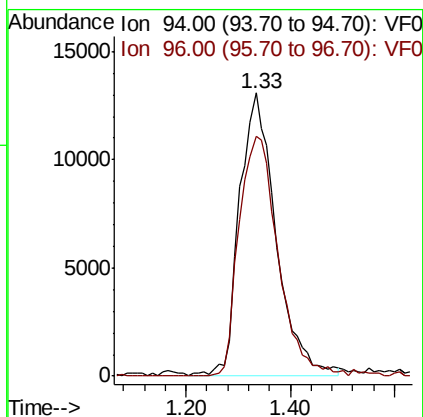
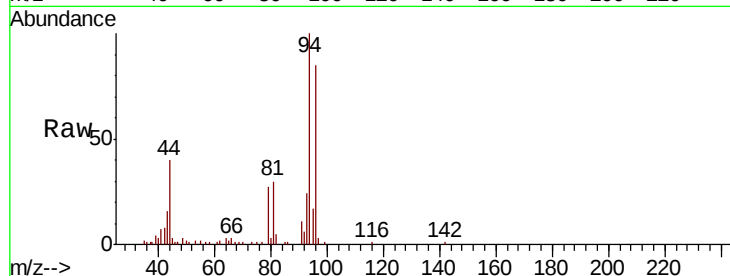
96 84.9 75.9 113.9

Manual Integrations

APPROVED

apatel

12/4/2018 2:47:13 PM



#6

Chloroethane

Concen: 48.241 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF060887.D

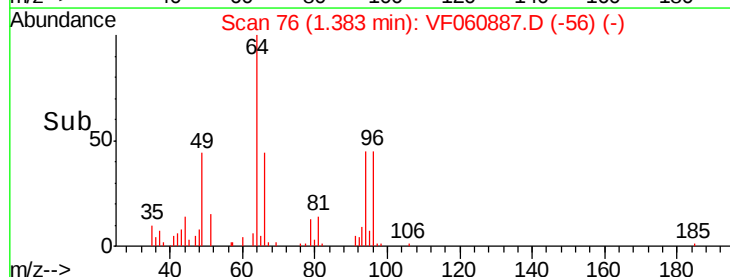
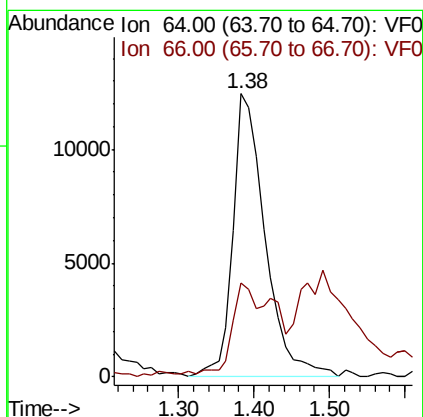
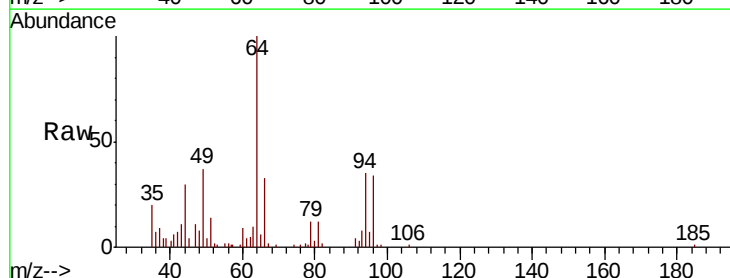
Acq: 3 Dec 2018 12:50

Tgt Ion: 64 Resp: 36725

Ion Ratio Lower Upper

64 100

66 33.3 28.1 42.1





#7

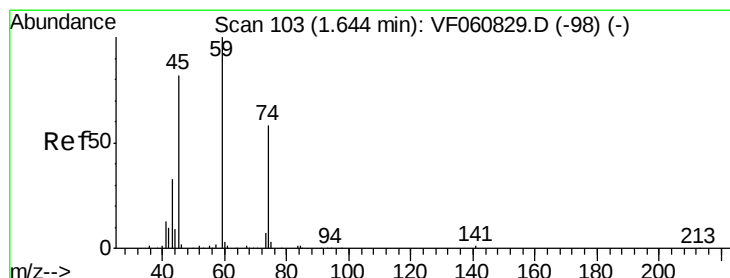
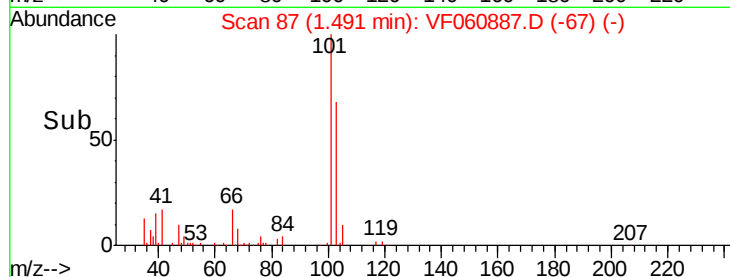
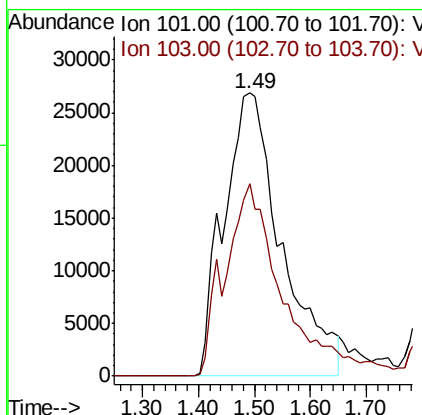
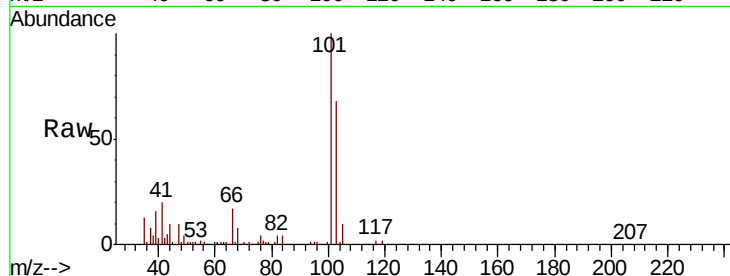
Trichlorofluoromethane
Concen: 50.779 ug/l
RT: 1.49 min Scan# 87
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.1	55.4	83.0

Manual Integrations
APPROVED

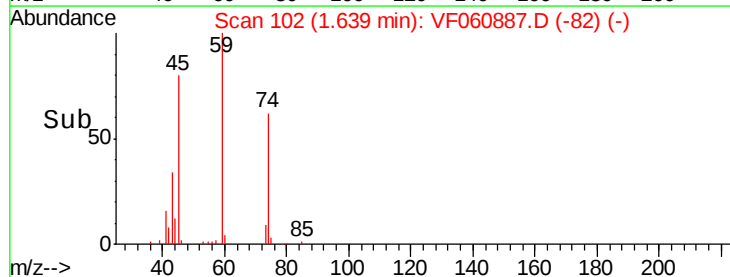
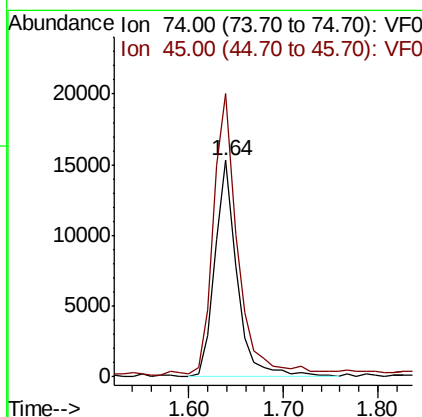
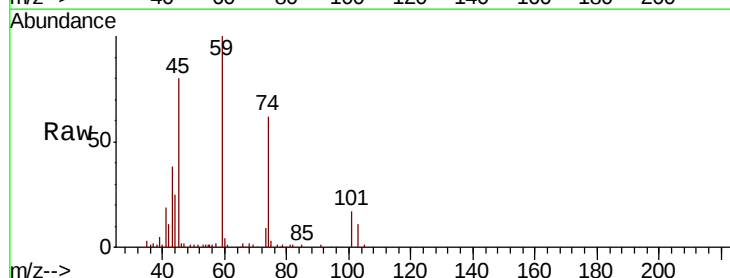
apatel
12/4/2018 2:47:13 PM

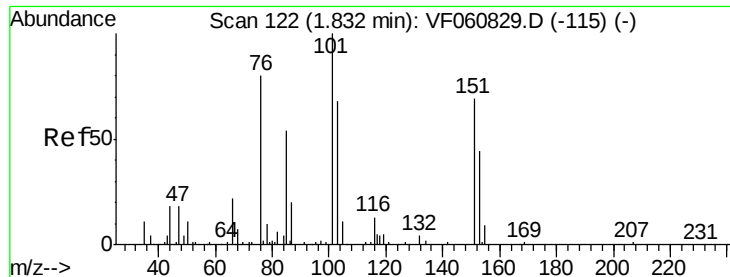


#8

Diethyl Ether
Concen: 46.288 ug/l
RT: 1.64 min Scan# 102
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	130.7	71.0	212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.571 ug/l

RT: 1.84 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

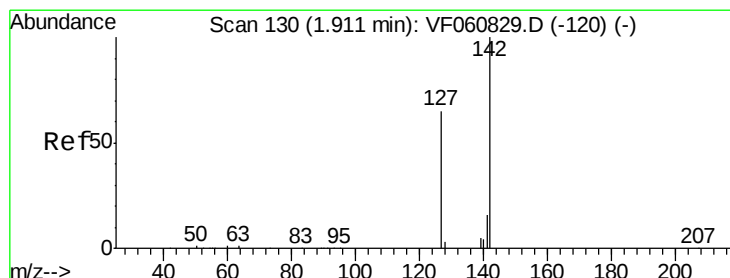
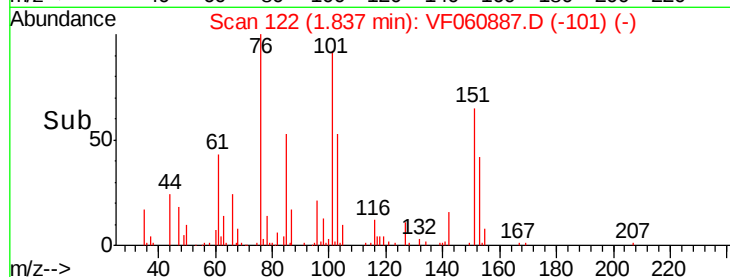
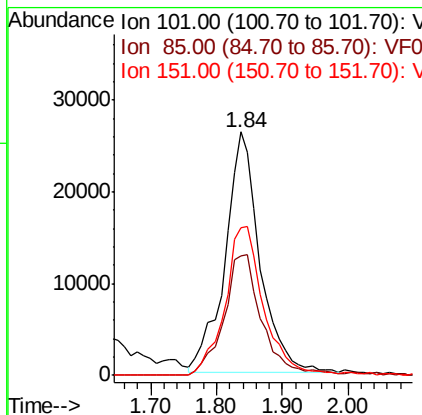
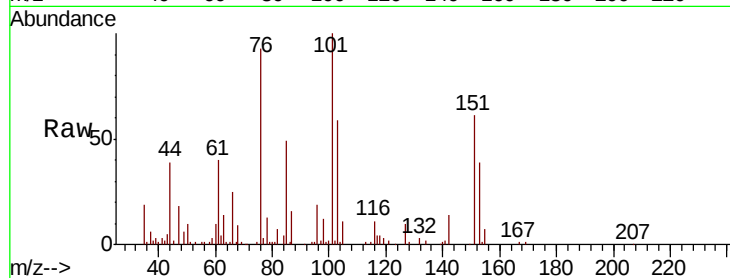
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	96606
Ion Ratio	Lower	Upper	
101	100		
85	49.1	42.8	64.2
151	60.6	54.4	81.6

Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#10

Methyl Iodide

Concen: 49.574 ug/l m

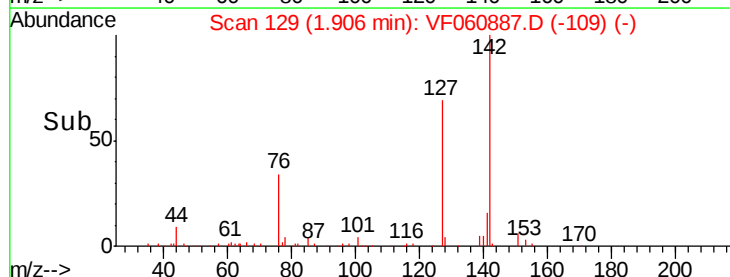
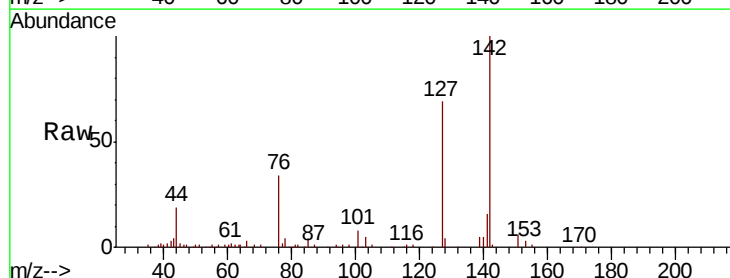
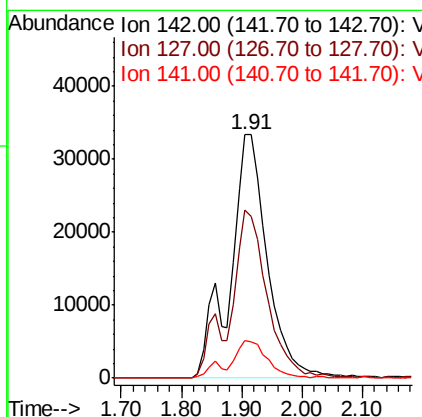
RT: 1.91 min Scan# 129

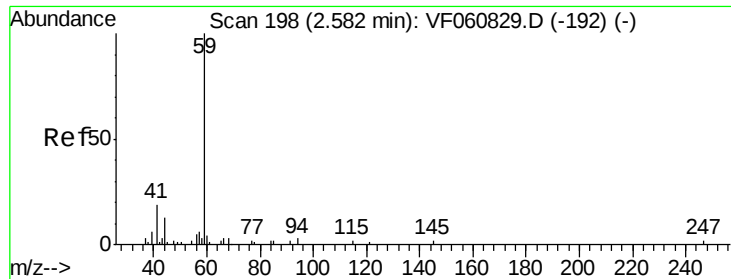
Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Tgt Ion:	142	Resp:	143946
Ion Ratio	Lower	Upper	
142	100		
127	69.0	51.9	77.9
141	15.6	12.7	19.1





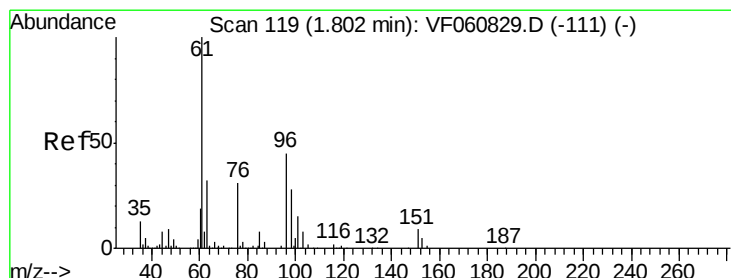
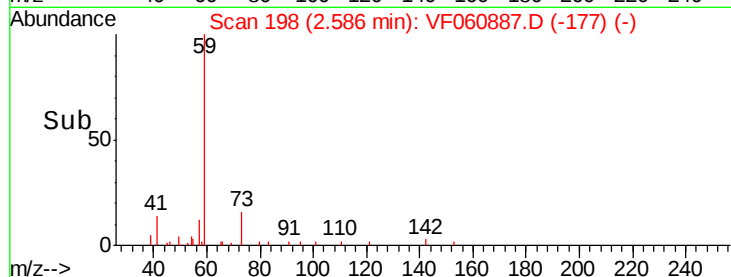
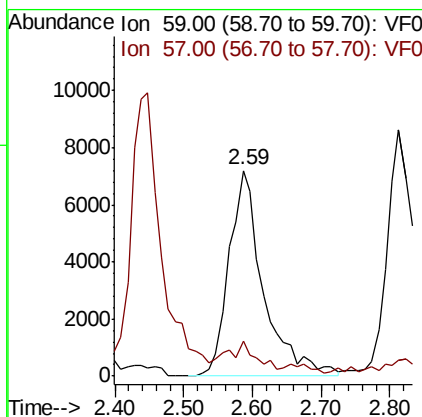
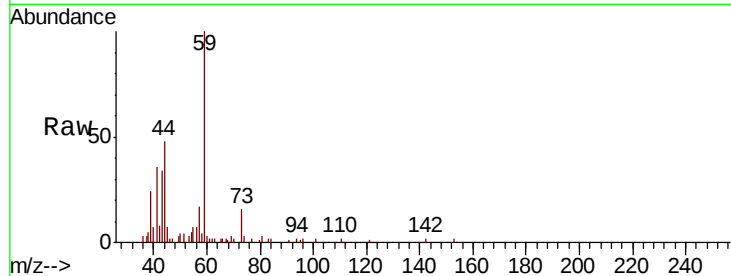
#11
Tert butyl alcohol
Concen: 267.018 ug/l
RT: 2.59 min Scan# 198
Delta R.T. 0.00 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 25022
Ion Ratio Lower Upper
59 100
57 17.3 12.7 19.1

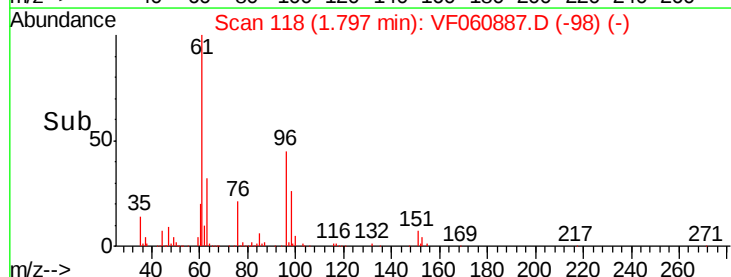
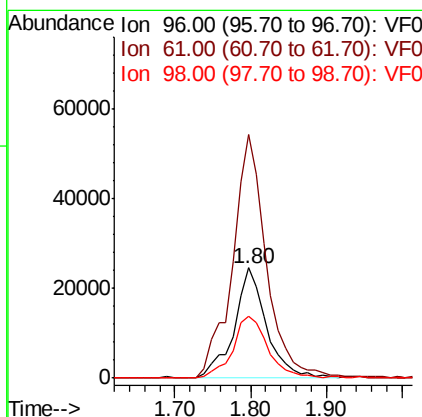
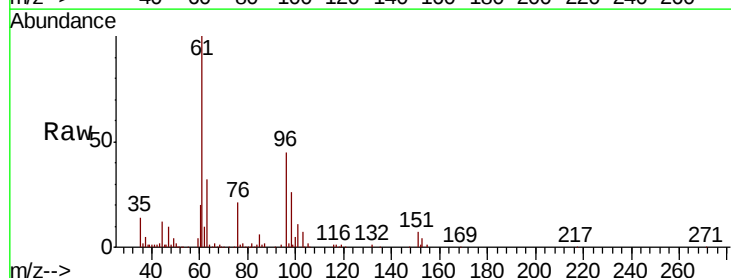
Manual Integrations
APPROVED

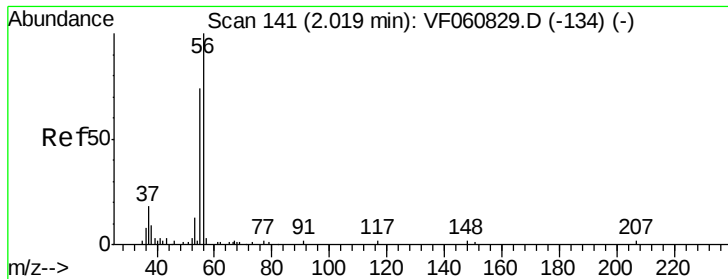
apatel
12/4/2018 2:47:13 PM



#12
1,1-Dichloroethene
Concen: 47.279 ug/l
RT: 1.80 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion: 96 Resp: 72645
Ion Ratio Lower Upper
96 100
61 221.5 177.3 265.9
98 56.8 49.6 74.4





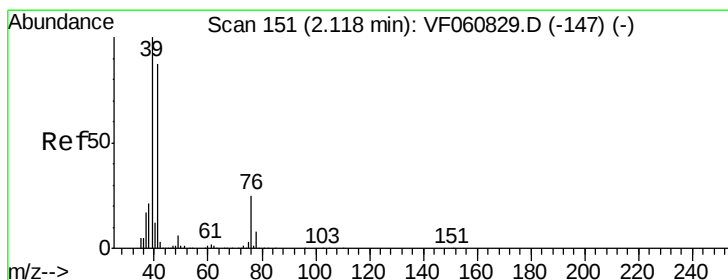
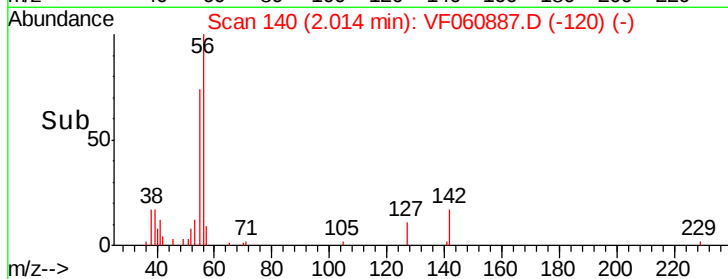
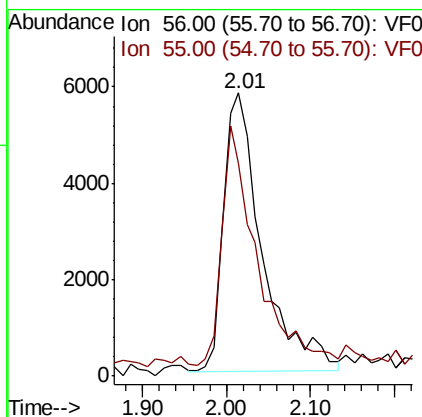
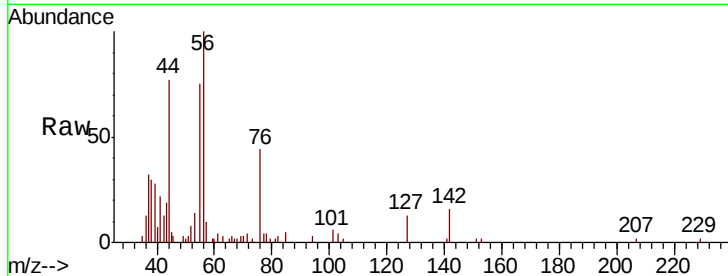
#13
Acrolein
Concen: 207.836 ug/l
RT: 2.01 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 18453
Ion Ratio Lower Upper
56 100
55 75.0 61.2 91.8

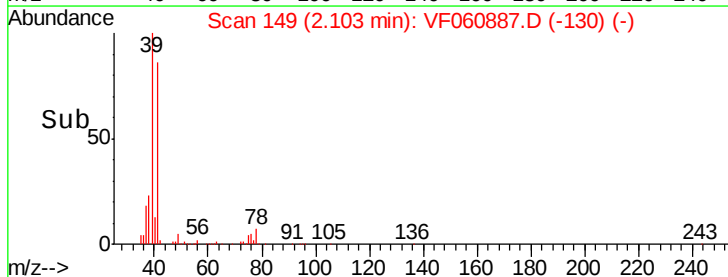
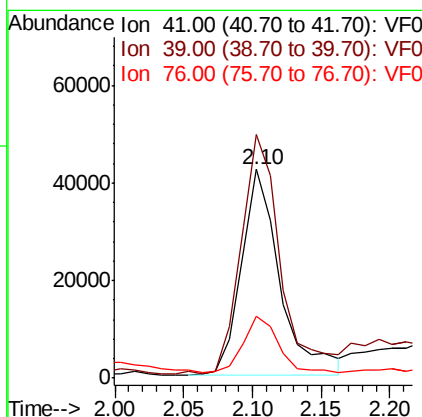
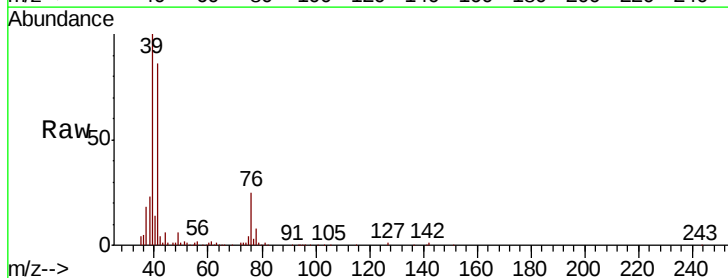
Manual Integrations
APPROVED

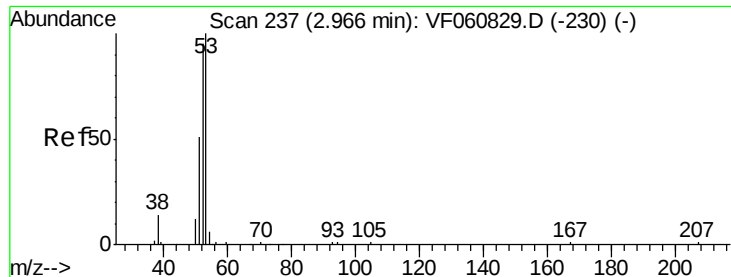
apatel
12/4/2018 2:47:13 PM



#14
Allyl chloride
Concen: 43.192 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion: 41 Resp: 82719
Ion Ratio Lower Upper
41 100
39 116.5 91.7 137.5
76 29.4 23.5 35.3





#15

Acrylonitrile

Concen: 243.098 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

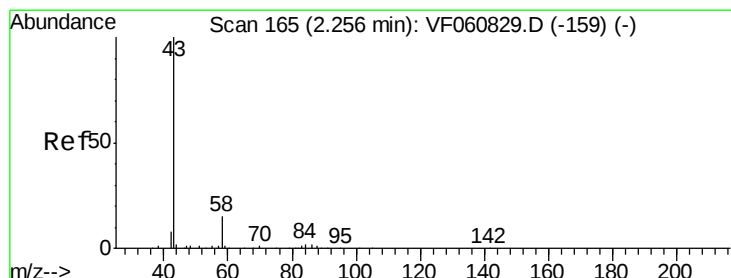
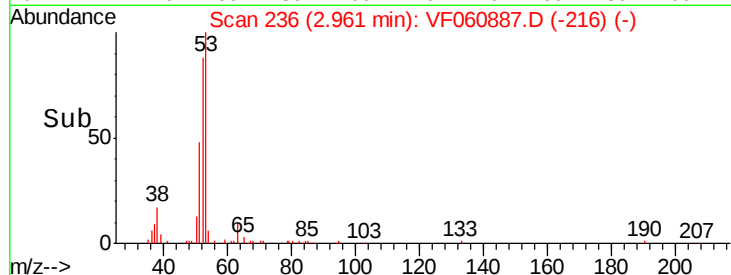
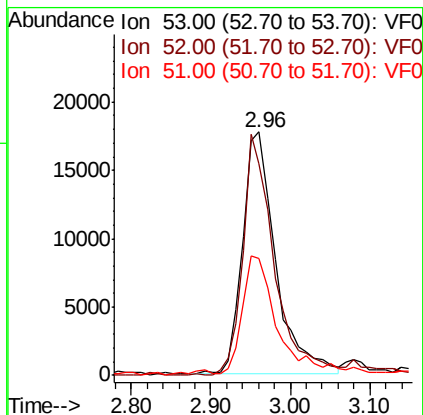
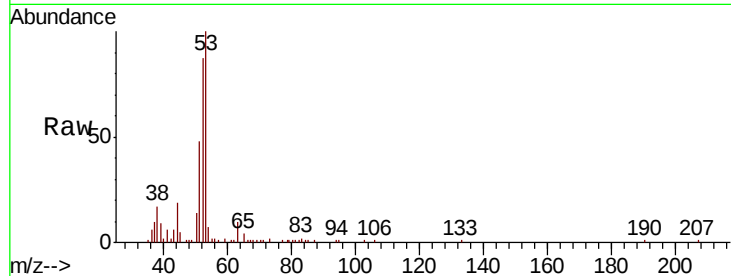
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	51072
Ion	Ratio	Lower	Upper
53	100		
52	87.0	76.5	114.7
51	48.1	40.7	61.1

Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#16

Acetone

Concen: 293.014 ug/l

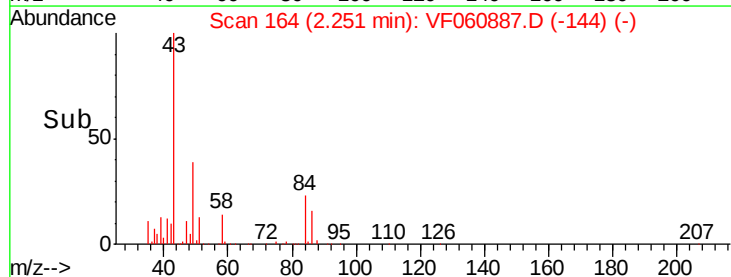
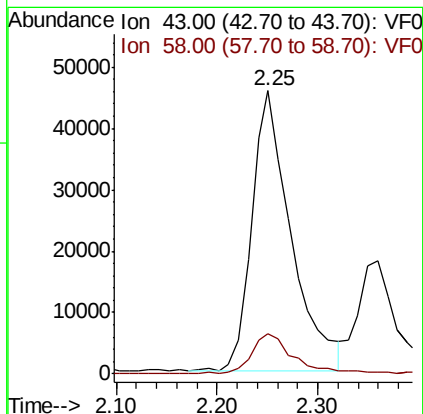
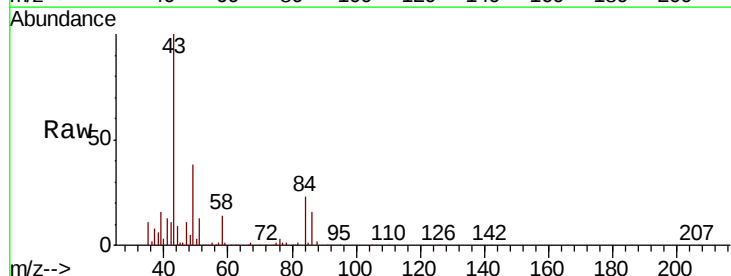
RT: 2.25 min Scan# 164

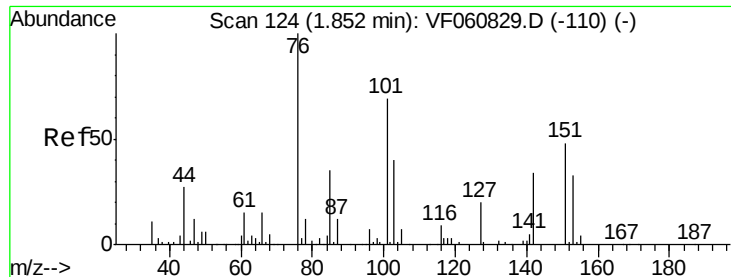
Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Tgt Ion:	43	Resp:	123521
Ion	Ratio	Lower	Upper
43	100		
58	14.1	11.4	17.2





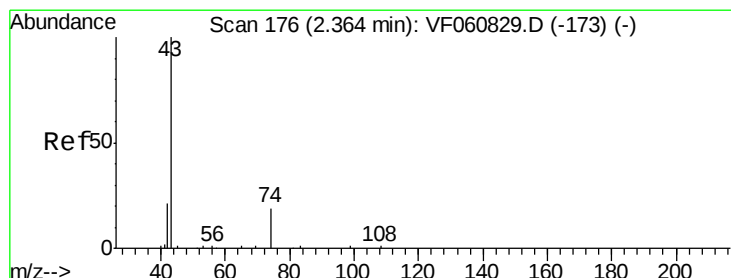
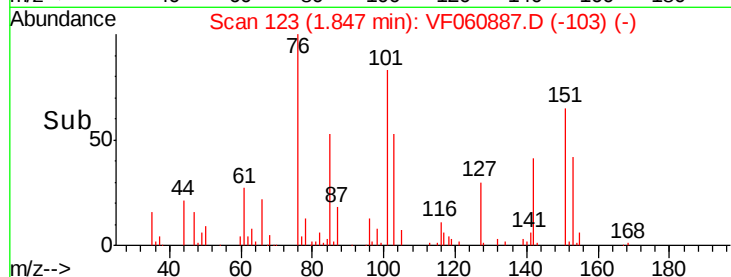
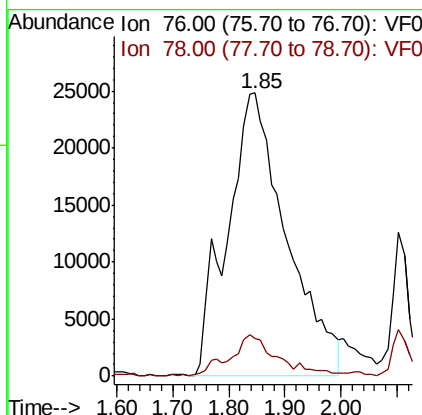
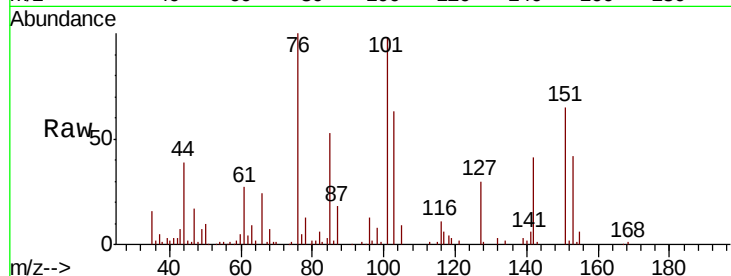
#17
Carbon Disulfide
Concen: 44.297 ug/l
RT: 1.85 min Scan# 123
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 182498
Ion Ratio Lower Upper
76 100
78 13.3 10.2 15.2

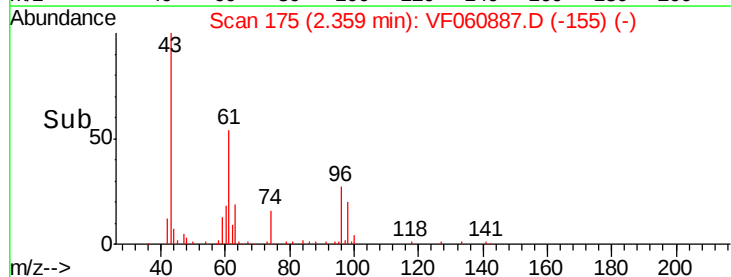
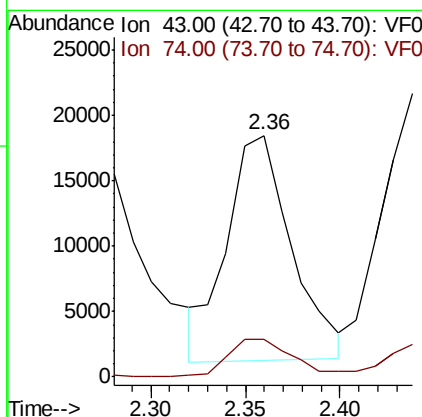
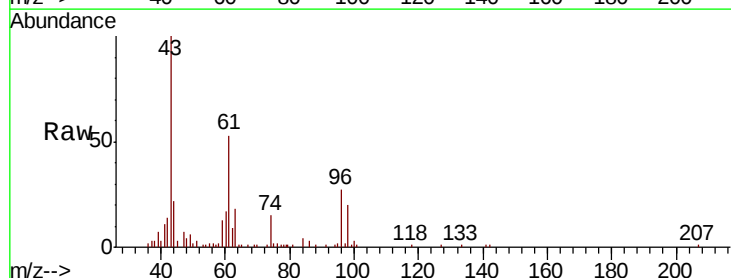
Manual Integrations
APPROVED

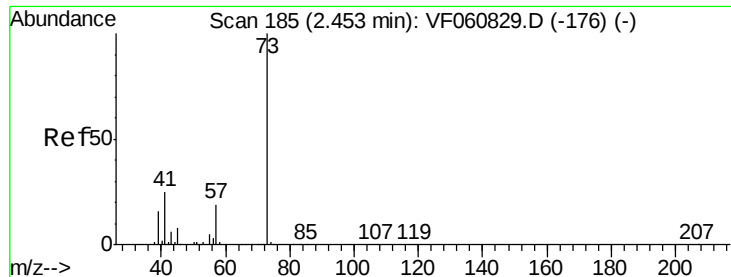
apatel
12/4/2018 2:47:13 PM



#18
Methyl Acetate
Concen: 57.881 ug/l
RT: 2.36 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion: 43 Resp: 40751
Ion Ratio Lower Upper
43 100
74 15.5 13.3 19.9





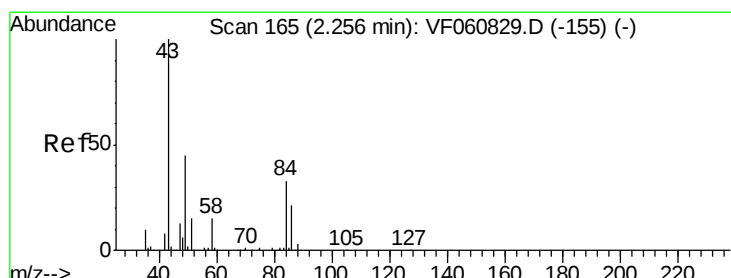
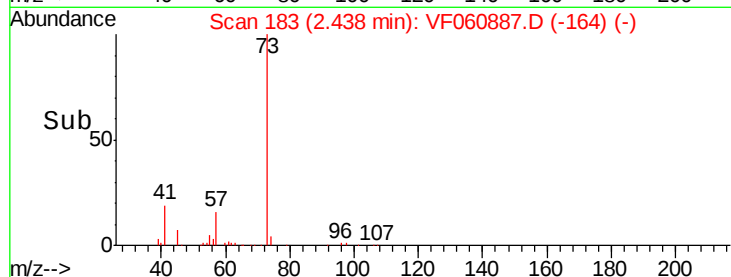
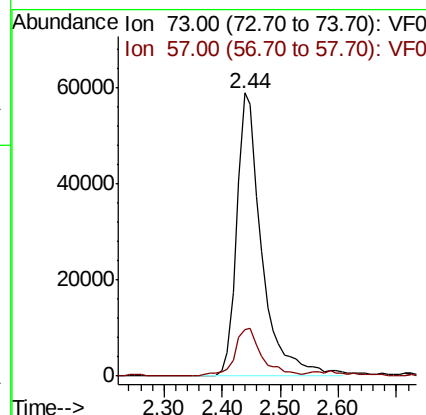
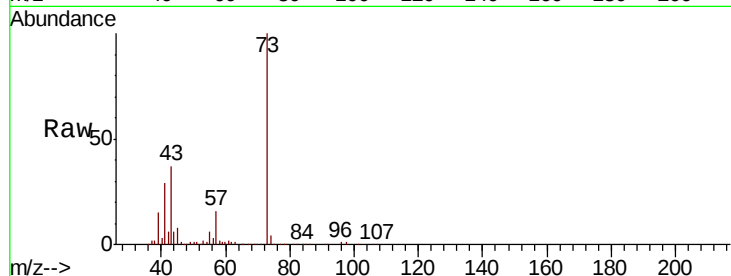
#19
Methvl tert-butvl Ether
Concen: 50.899 ug/l
RT: 2.44 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	16.5	15.3	22.9

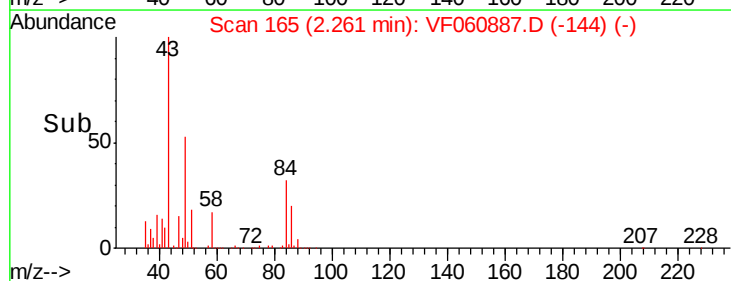
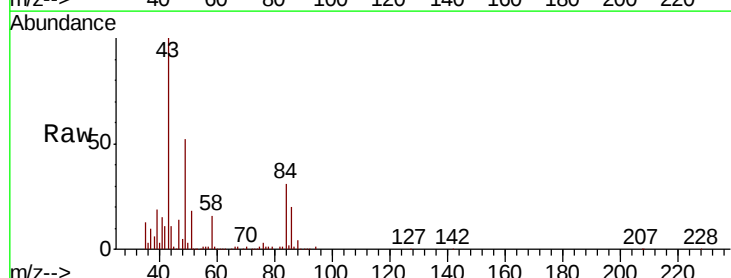
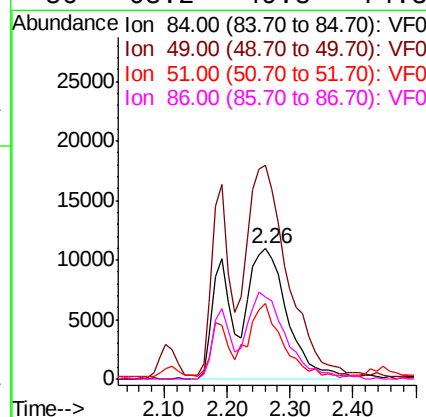
Manual Integrations
APPROVED

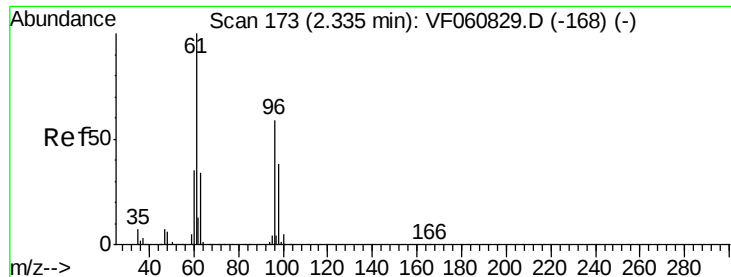
apatel
12/4/2018 2:47:13 PM



#20
Methylene Chloride
Concen: 43.754 ug/l m
RT: 2.26 min Scan# 165
Delta R.T. 0.00 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
84	100		
49	164.3	111.3	166.9
51	58.1	38.0	57.0#
86	63.2	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 45.564 ug/l m

RT: 2.32 min Scan# 171

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 67496

Ion Ratio Lower Upper

96 100

61 182.9 134.5 201.7

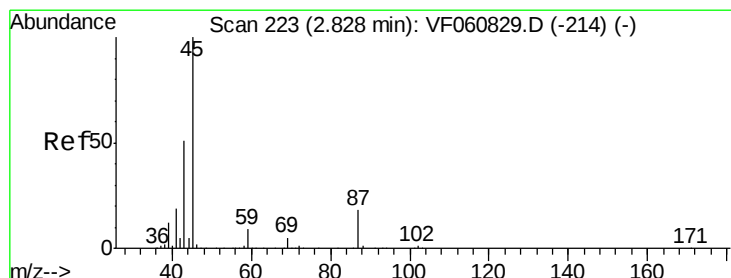
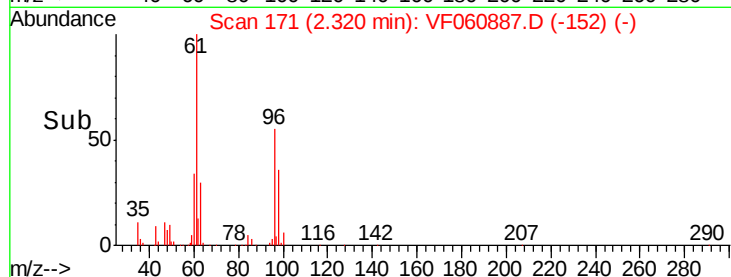
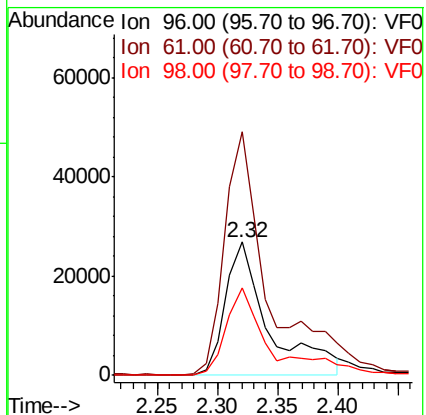
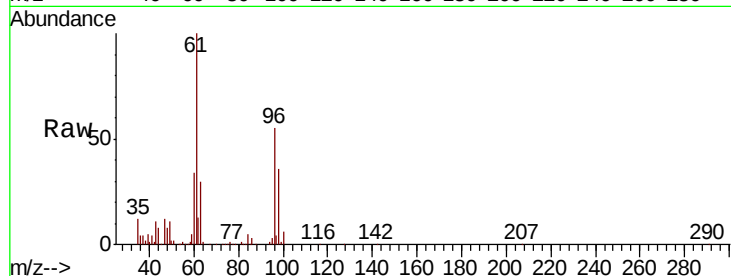
98 65.4 51.6 77.4

Manual Integrations

APPROVED

apatel

12/4/2018 2:47:13 PM



#22

Diisopropyl ether

Concen: 50.134 ug/l

RT: 2.81 min Scan# 221

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Tgt Ion: 45 Resp: 261348

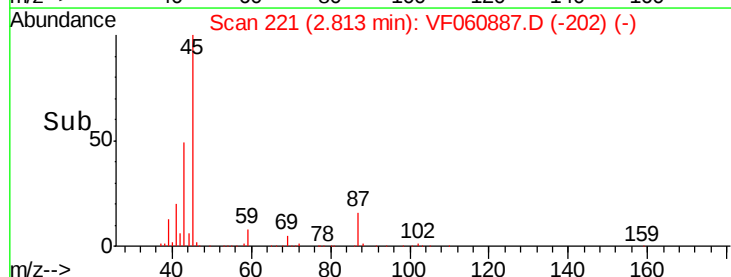
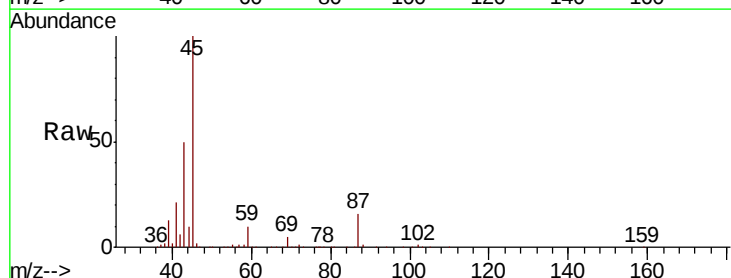
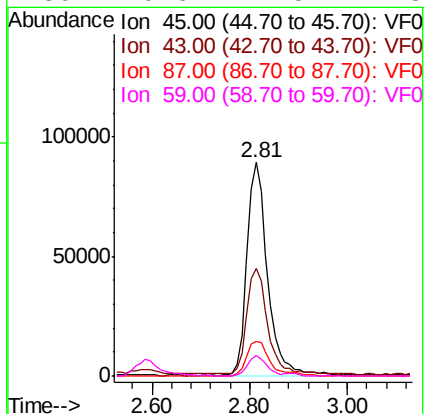
Ion Ratio Lower Upper

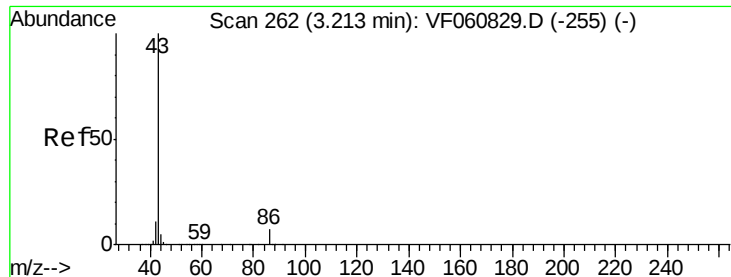
45 100

43 50.1 41.0 61.6

87 16.4 14.6 22.0

59 9.6 7.5 11.3





#23

Vinyl Acetate

Concen: 257.926 ug/l

RT: 3.20 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 614614

Ion Ratio Lower Upper

43 100

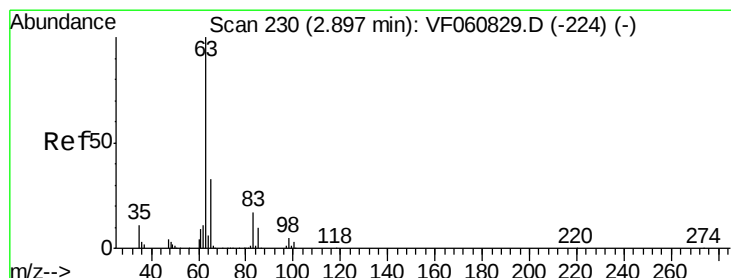
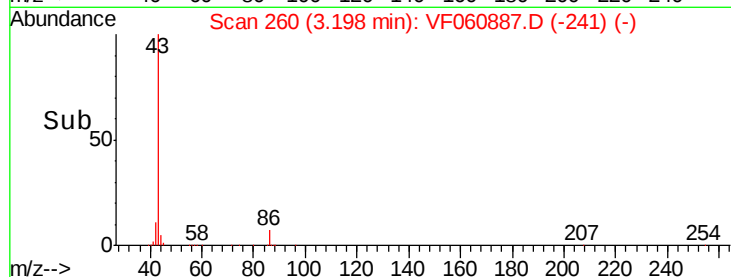
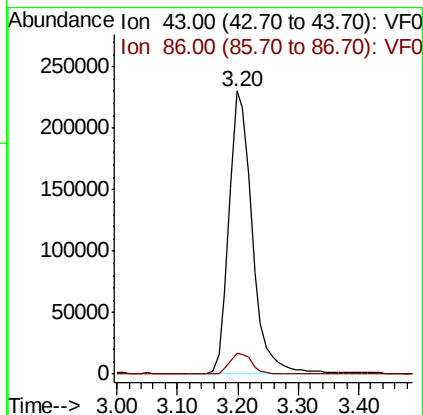
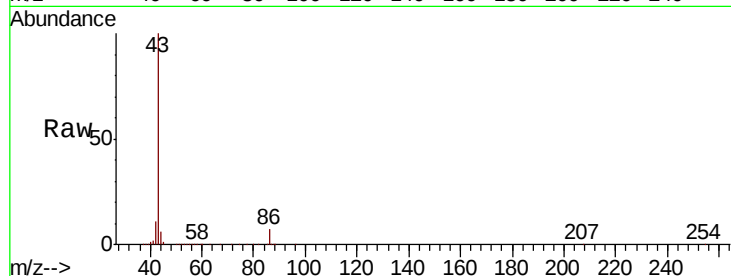
86 7.2 5.4 8.0

Manual Integrations

APPROVED

apatel

12/4/2018 2:47:13 PM



#24

1,1-Dichloroethane

Concen: 51.413 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

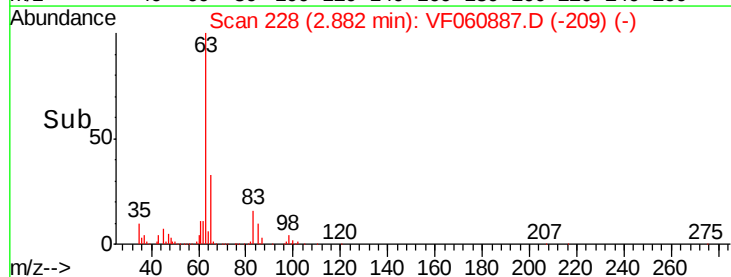
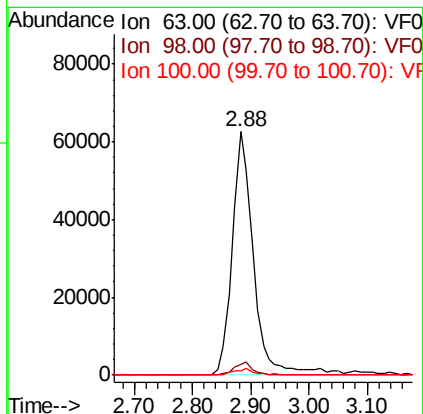
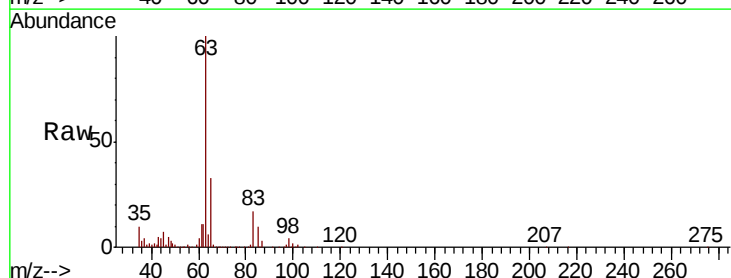
Tgt Ion: 63 Resp: 159460

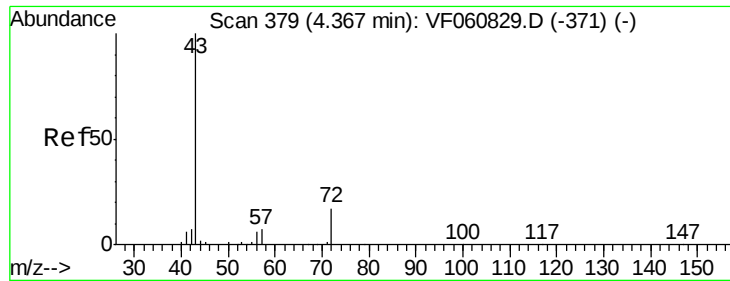
Ion Ratio Lower Upper

63 100

98 4.3 2.7 8.1

100 2.0 1.5 4.5





#25

2-Butanone

Concen: 259.664 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 189331

Ion Ratio Lower Upper

43 100

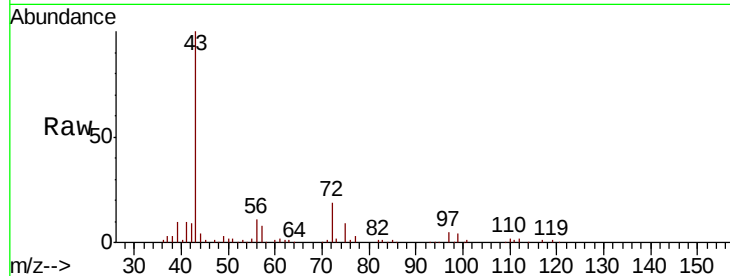
72 19.5 15.4 23.2

Manual Integrations

APPROVED

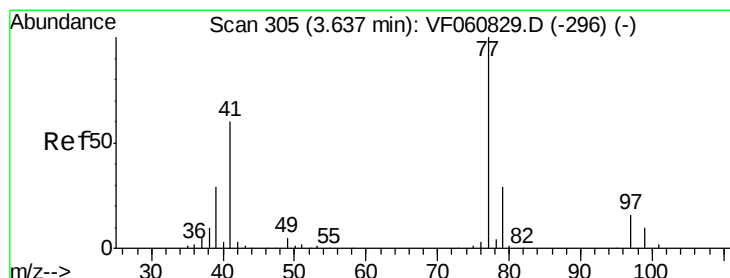
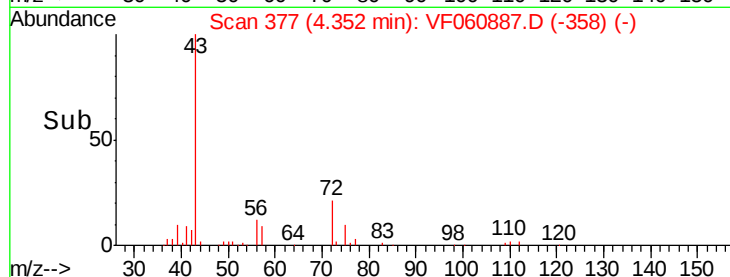
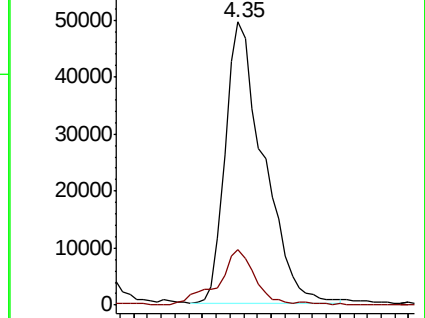
apatel

12/4/2018 2:47:13 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 51.681 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.02 min

Lab File: VF060887.D

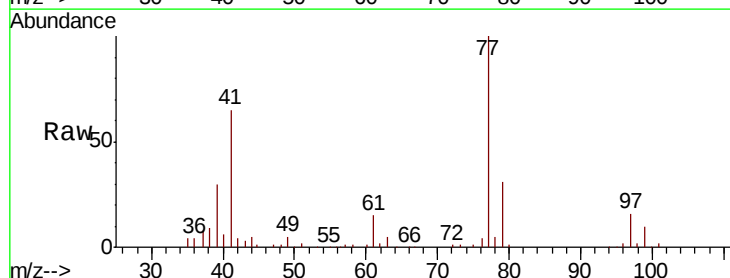
Acq: 3 Dec 2018 12:50

Tgt Ion: 77 Resp: 103918

Ion Ratio Lower Upper

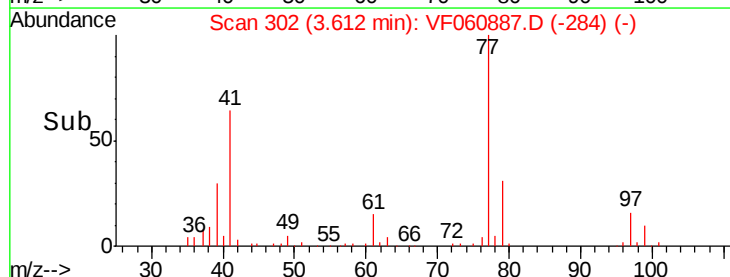
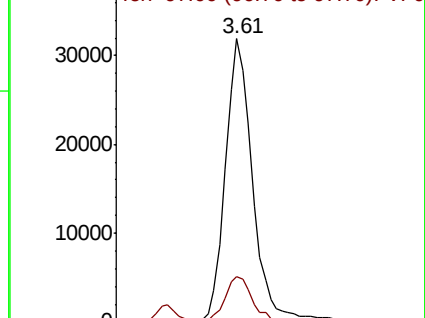
77 100

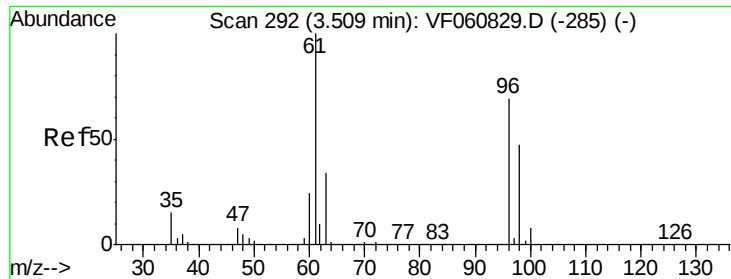
97 15.8 8.6 25.8



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

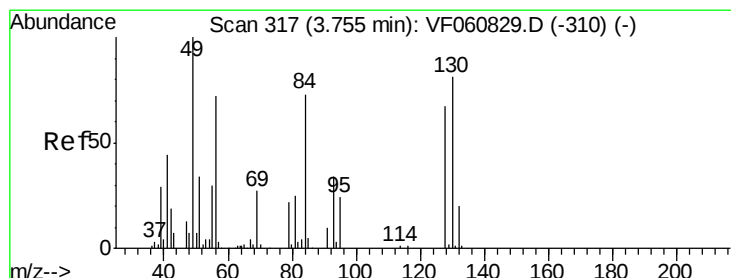
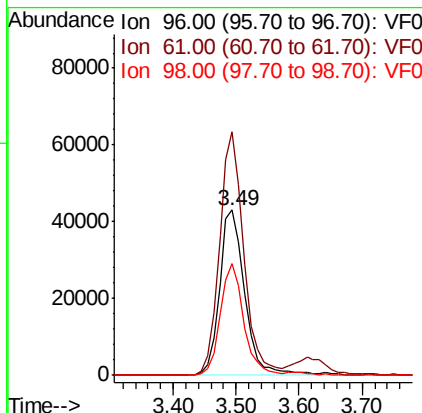
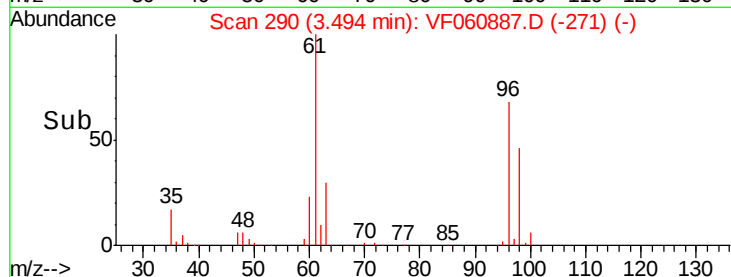
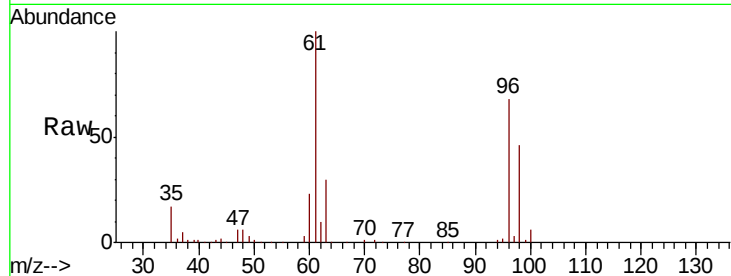
cis-1,2-Dichloroethene
Concen: 50.130 ug/l
RT: 3.49 min Scan# 290
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	120895		
61	147.6		0.0	290.6
98	67.9		0.0	137.8

Manual Integrations
APPROVED

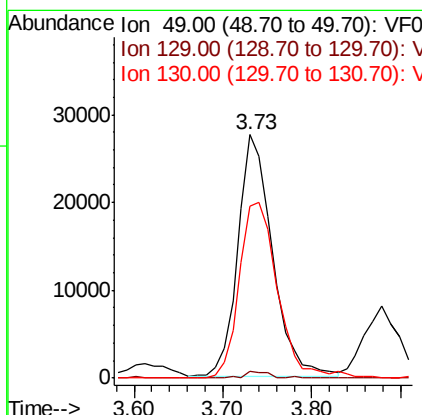
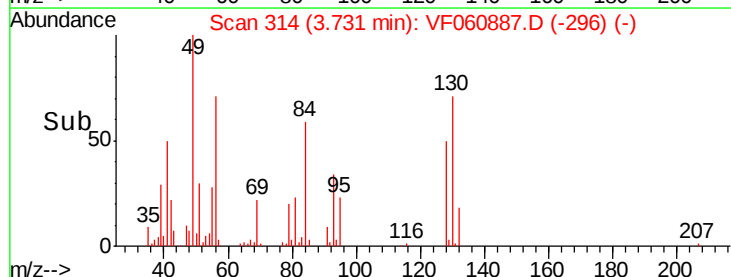
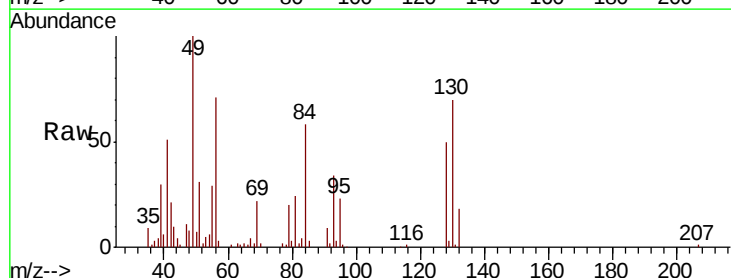
apatel
12/4/2018 2:47:13 PM

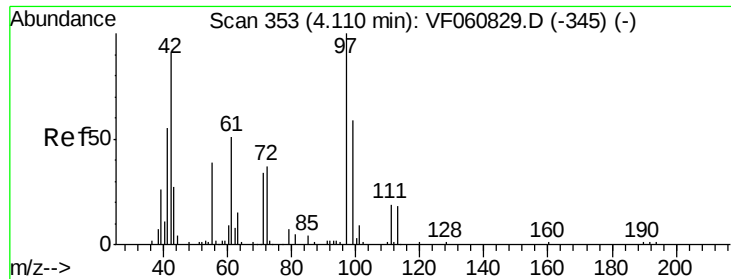


#28

Bromochloromethane
Concen: 49.413 ug/l
RT: 3.73 min Scan# 314
Delta R.T. -0.02 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	73551		
129	2.6		0.0	4.4
130	70.5		64.2	96.4





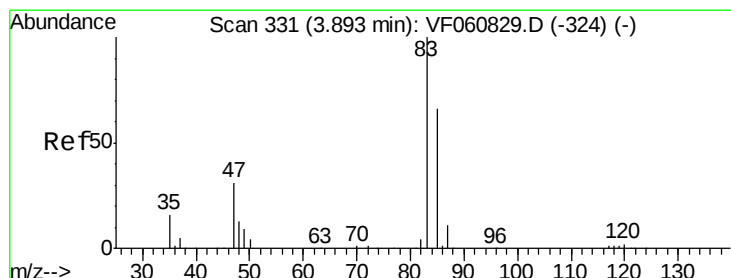
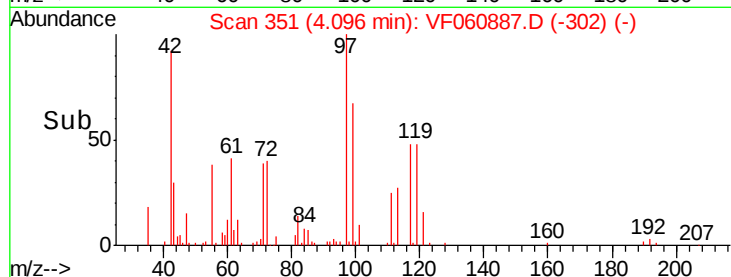
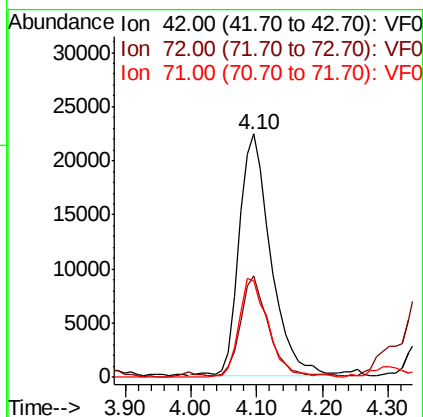
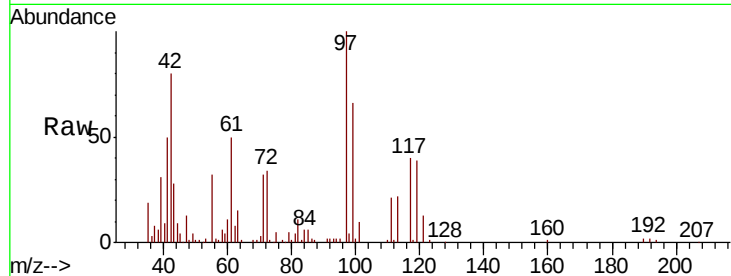
#29
Tetrahydrofuran
Concen: 245.241 ug/l
RT: 4.10 min Scan# 351
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.5	31.9	47.9
71	38.0	28.7	43.1

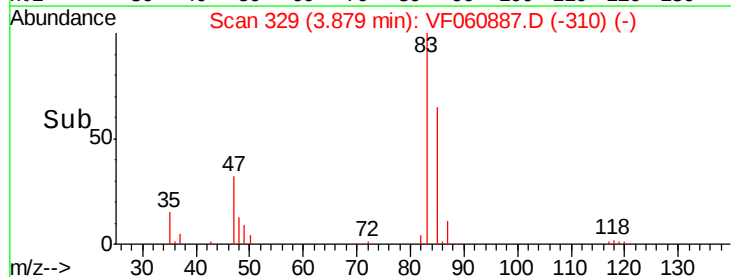
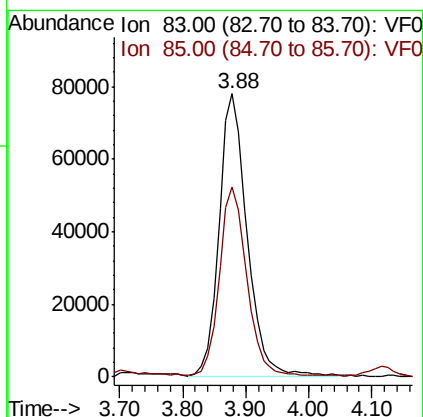
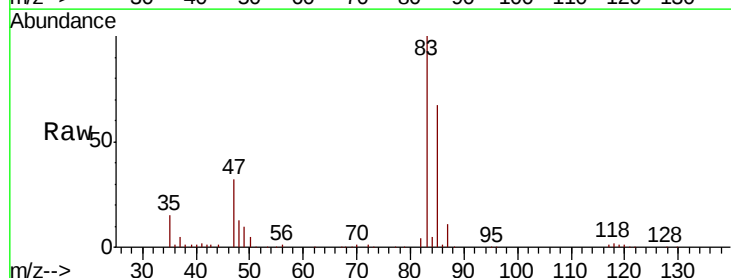
Manual Integrations
APPROVED

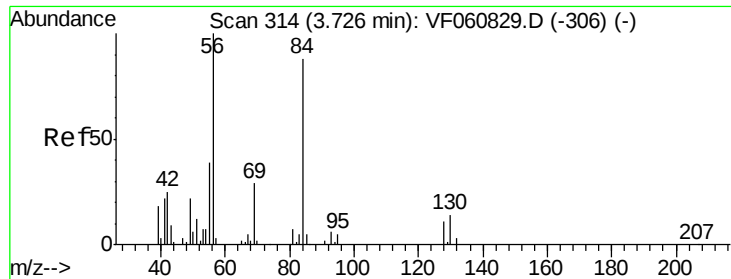
apatel
12/4/2018 2:47:13 PM



#30
Chloroform
Concen: 50.039 ug/l
RT: 3.88 min Scan# 329
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.0	53.4	80.2





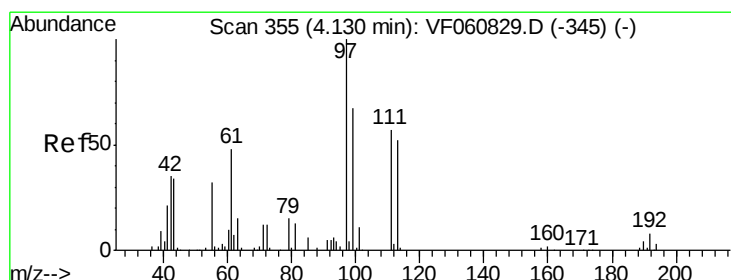
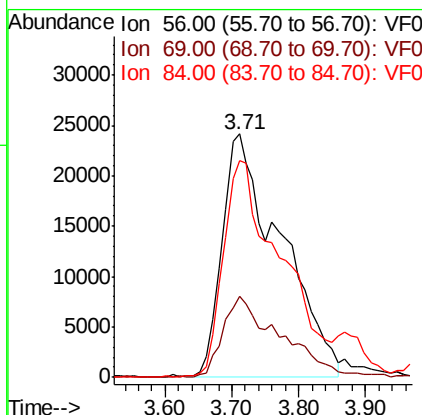
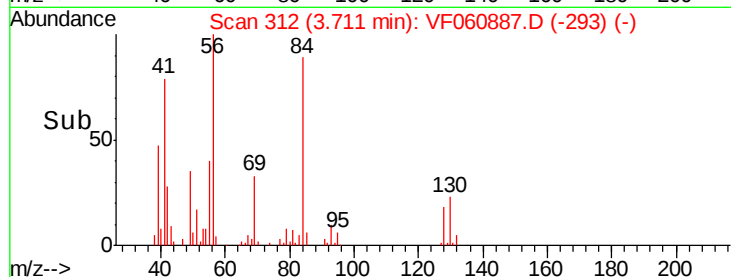
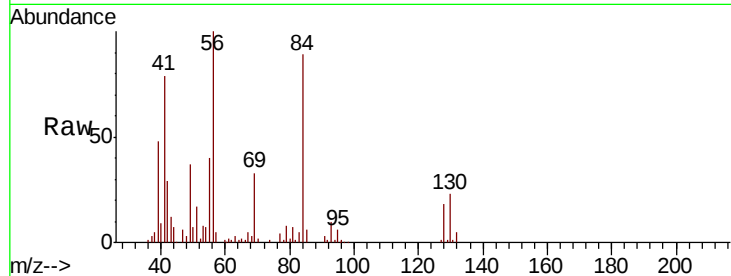
#31
Cyclohexane
Concen: 45.624 ug/l m
RT: 3.71 min Scan# 312
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.2	23.0	34.4
84	88.8	70.4	105.6

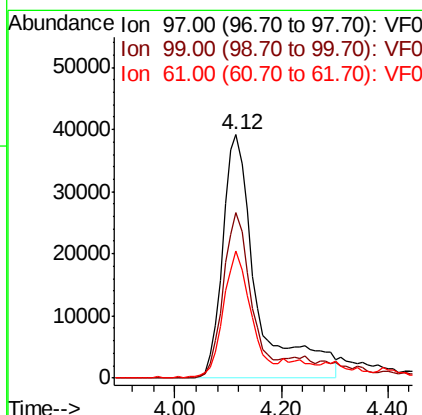
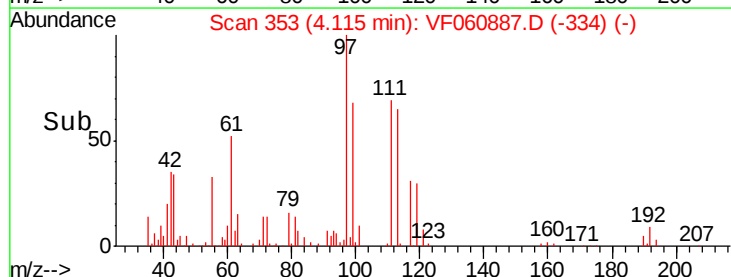
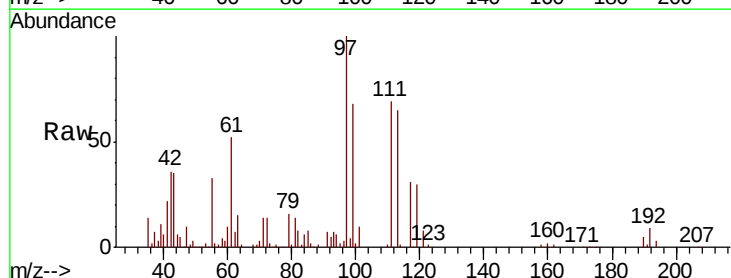
Manual Integrations
APPROVED

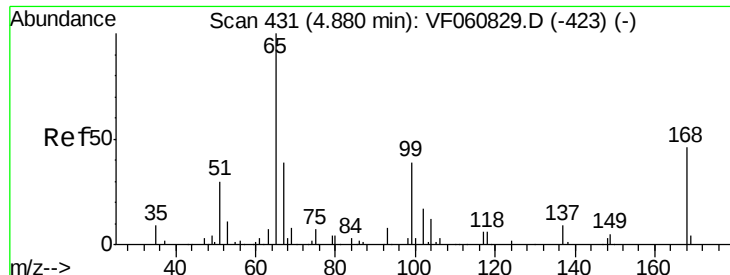
apatel
12/4/2018 2:47:13 PM



#32
1,1,1-Trichloroethane
Concen: 52.899 ug/l m
RT: 4.12 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	68.0	53.5	80.3
61	52.0	38.6	58.0





#33

1,2-Dichloroethane-d4

Concen: 50.656 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 115799

Ion Ratio Lower Upper

65 100

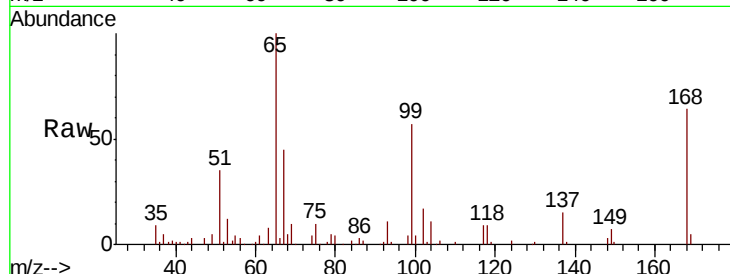
67 44.8 0.0 96.4

Manual Integrations

APPROVED

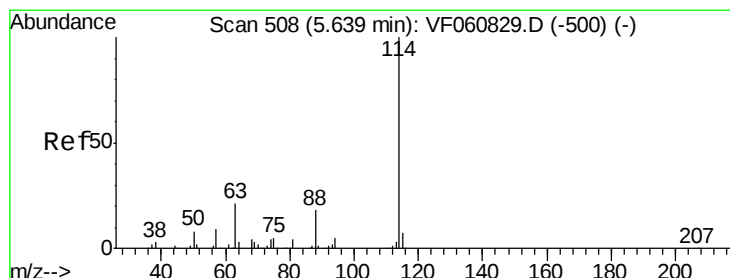
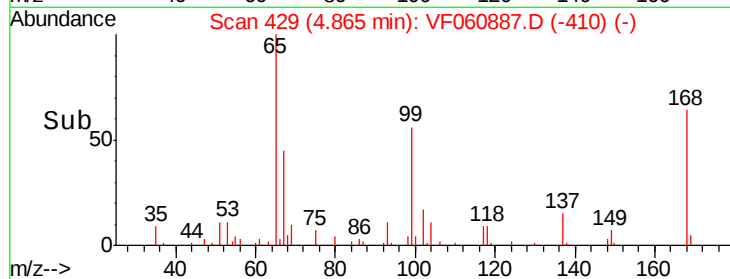
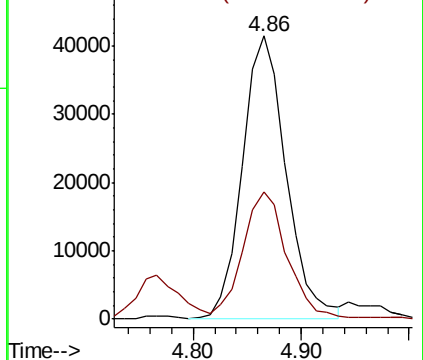
apatel

12/4/2018 2:47:13 PM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.02 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

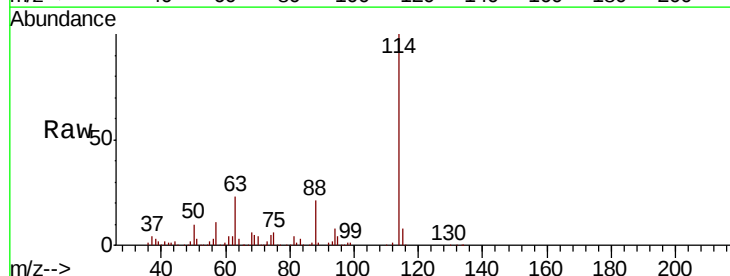
Tgt Ion: 114 Resp: 292015

Ion Ratio Lower Upper

114 100

63 23.3 0.0 41.6

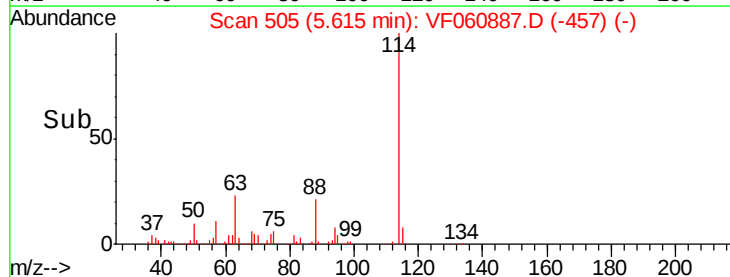
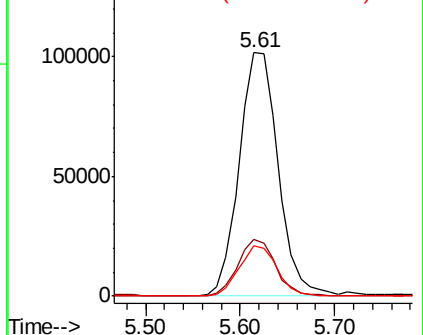
88 20.6 0.0 36.6

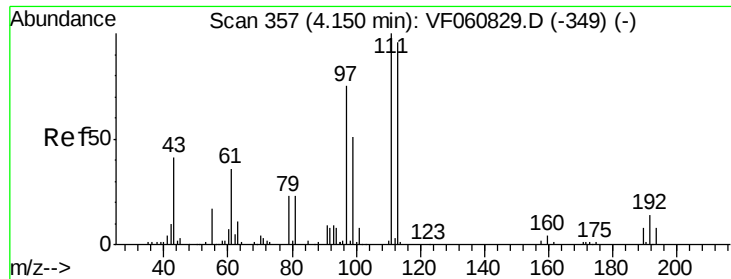


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 51.752 ug/l

RT: 4.14 min Scan# 355

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

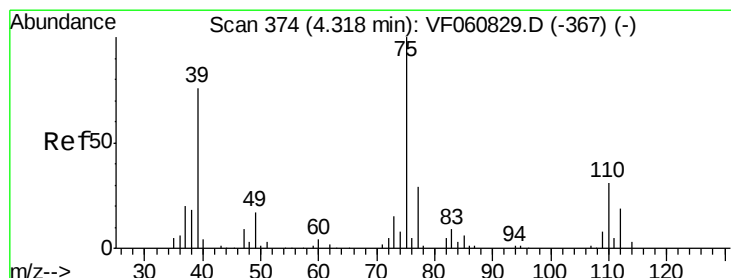
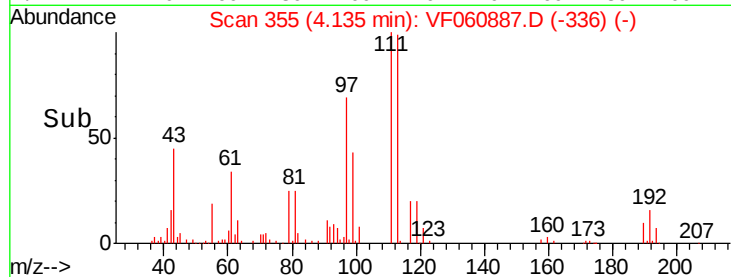
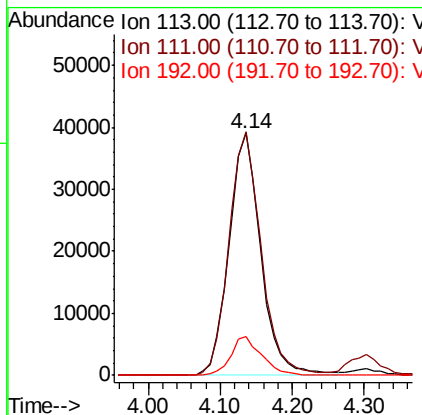
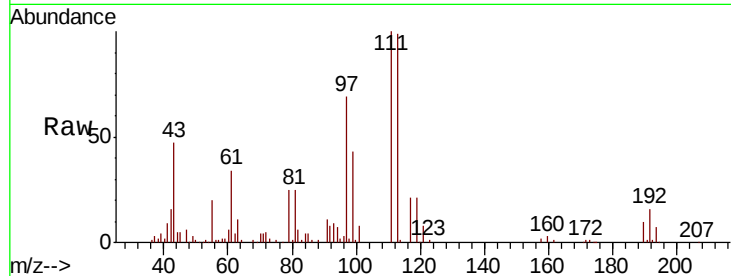
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	119890
Ion Ratio	Lower	Upper	
113	100		
111	100.7	83.0	124.6
192	16.7	12.3	18.5

Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#36

1,1-Dichloropropene

Concen: 54.826 ug/l

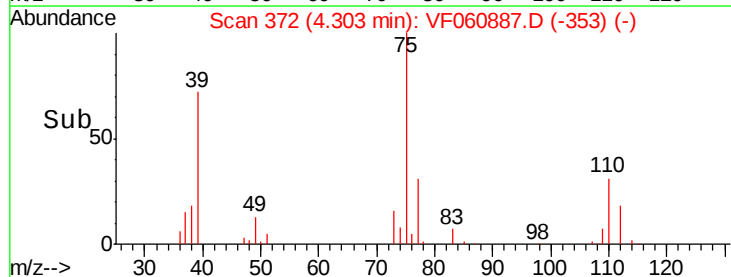
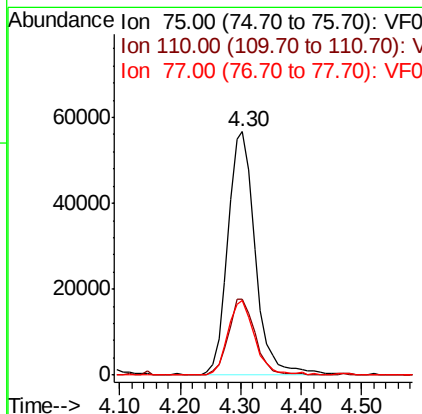
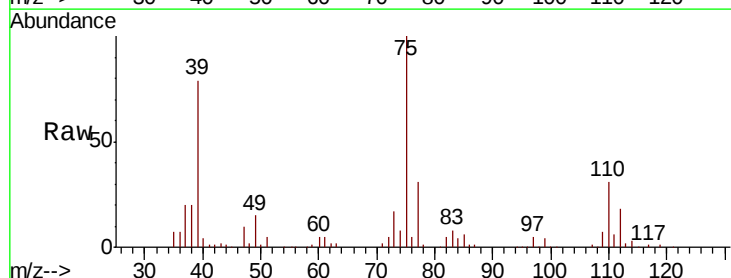
RT: 4.30 min Scan# 372

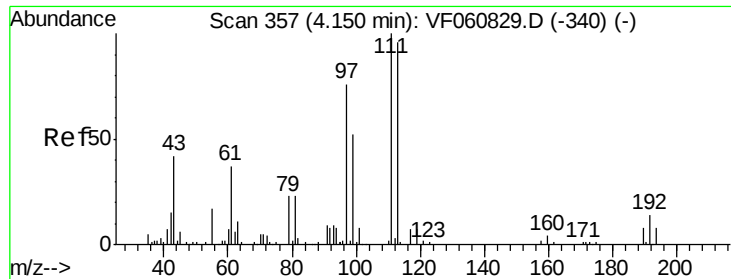
Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Tgt Ion:	75	Resp:	177576
Ion Ratio	Lower	Upper	
75	100		
110	31.4	15.6	46.8
77	30.7	23.4	35.0





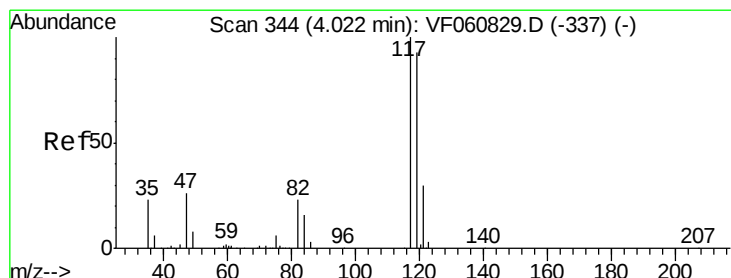
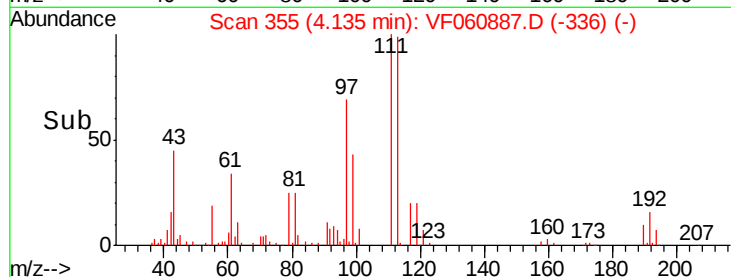
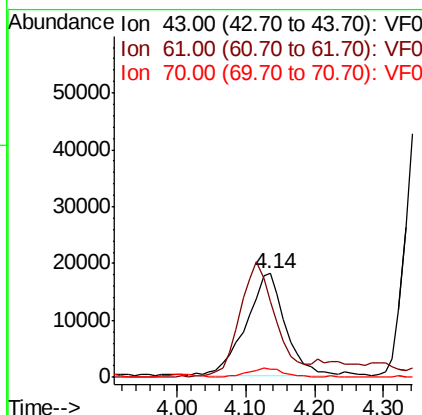
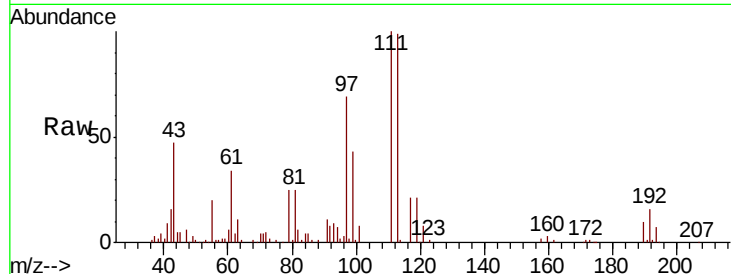
#37
Ethyl Acetate
Concen: 54.059 ug/l
RT: 4.14 min Scan# 355
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	43	61	70	Ratio	Lower	Upper
71153	100	73.0	8.4			
		68.6	9.0			
		103.0	13.4			

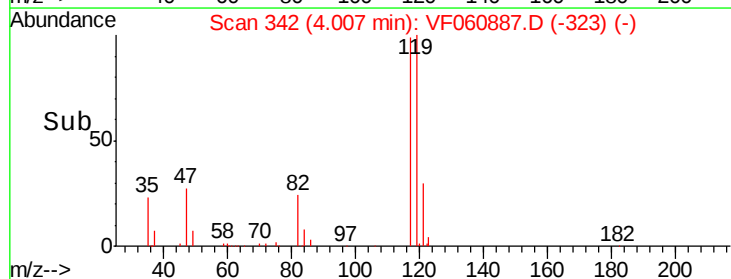
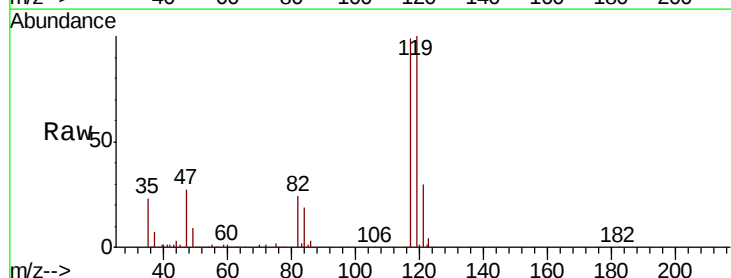
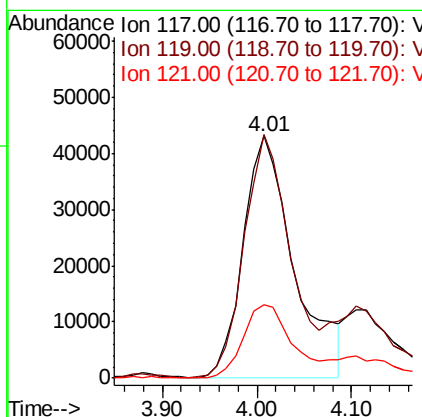
Manual Integrations
APPROVED

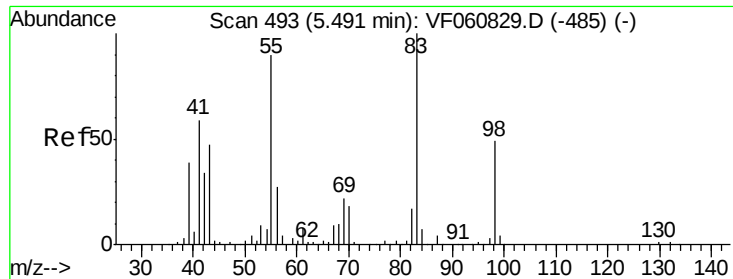
apatel
12/4/2018 2:47:13 PM



#38
Carbon Tetrachloride
Concen: 56.897 ug/l
RT: 4.01 min Scan# 342
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	117	119	121	Ratio	Lower	Upper
162770	100	100.7	30.3			
		74.4	23.5			
		111.6	35.3			





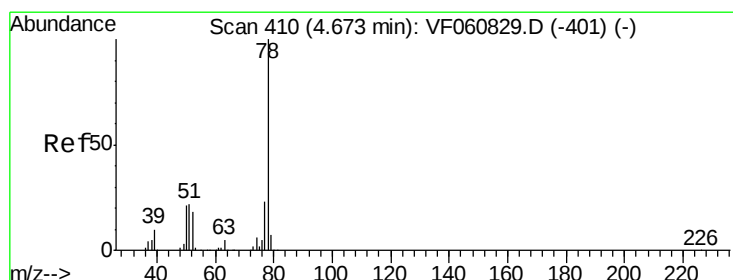
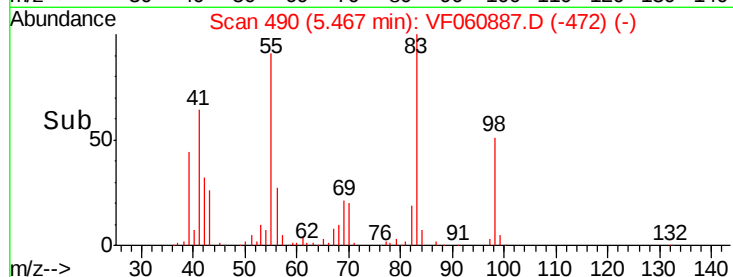
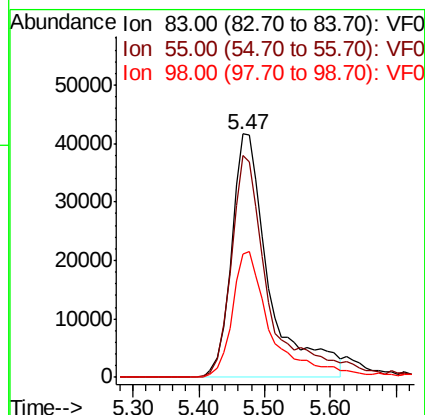
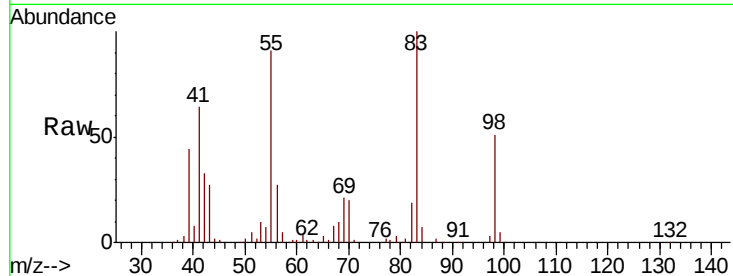
#39
Methvlcvclohexane
Concen: 49.184 ug/l
RT: 5.47 min Scan# 490
Delta R.T. -0.02 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	91.1	72.1	108.1
98	50.8	39.1	58.7

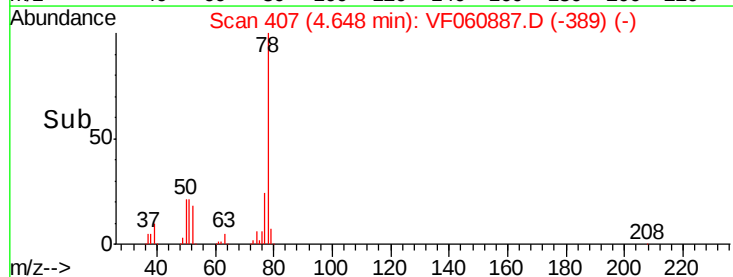
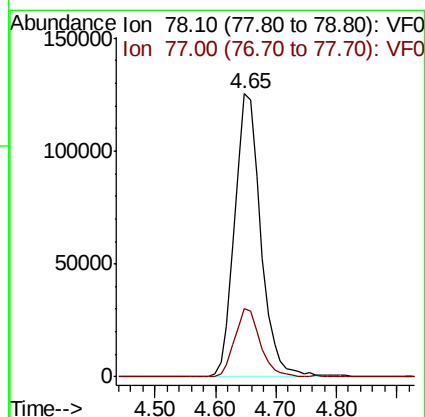
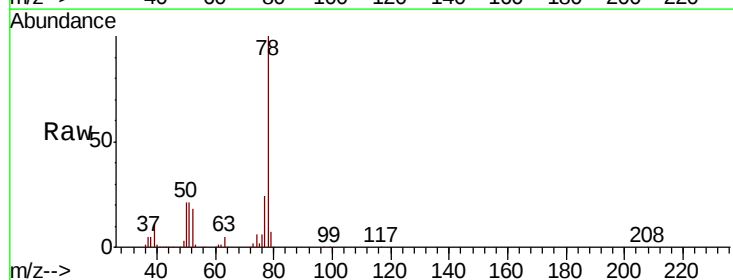
Manual Integrations
APPROVED

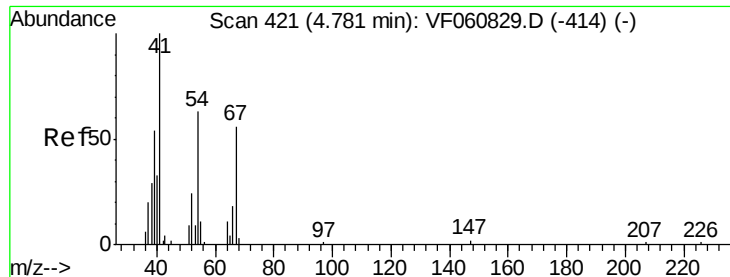
apatel
12/4/2018 2:47:13 PM



#40
Benzene
Concen: 52.857 ug/l
RT: 4.65 min Scan# 407
Delta R.T. -0.02 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.7	28.1





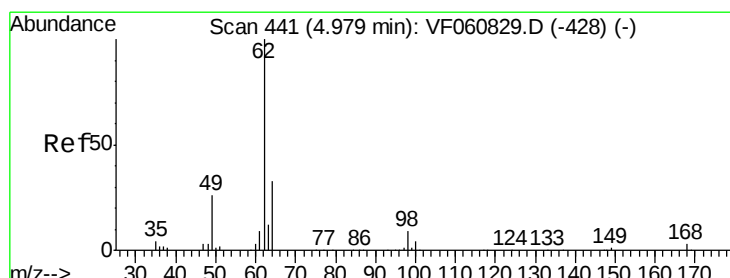
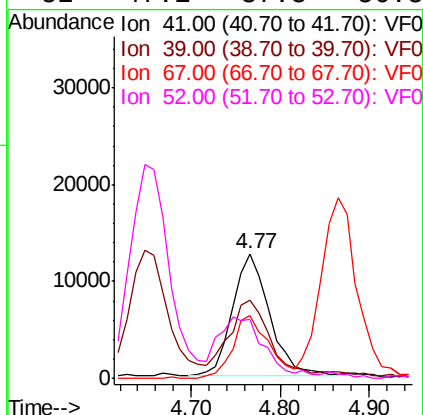
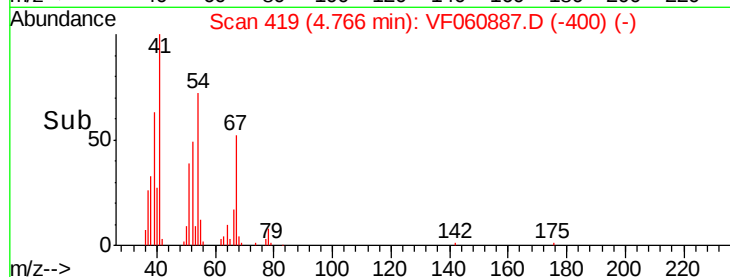
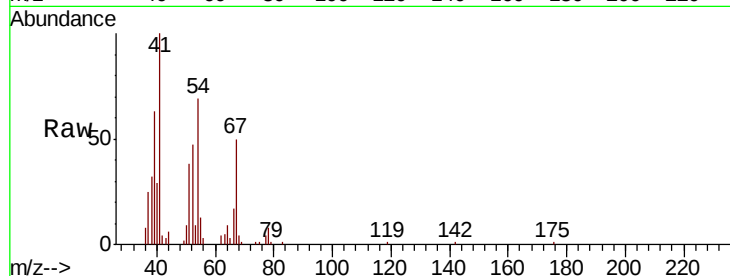
#41
Methacrylonitrile
Concen: 53.632 ug/l
RT: 4.77 min Scan# 419
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	62.9	53.0	79.6	
67	50.1	43.8	65.6	
52	47.1	37.8	56.8	

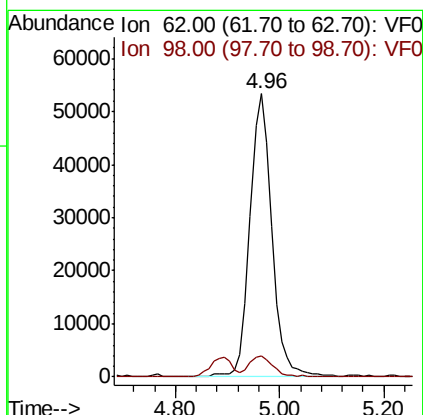
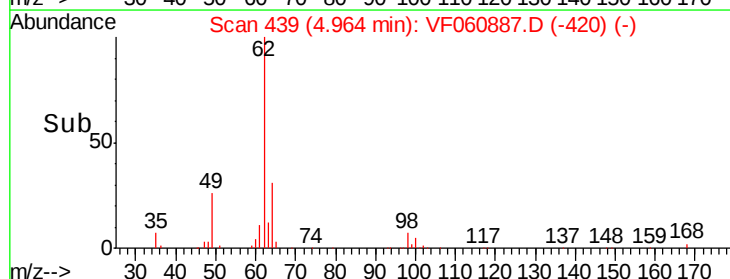
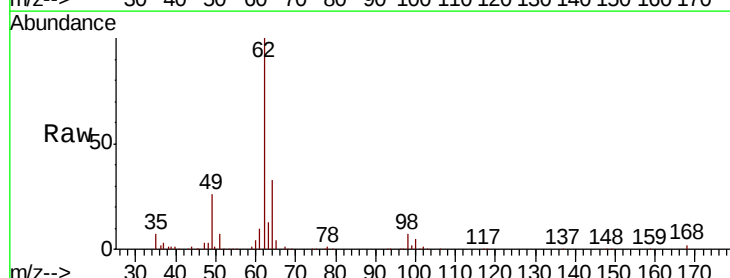
Manual Integrations
APPROVED

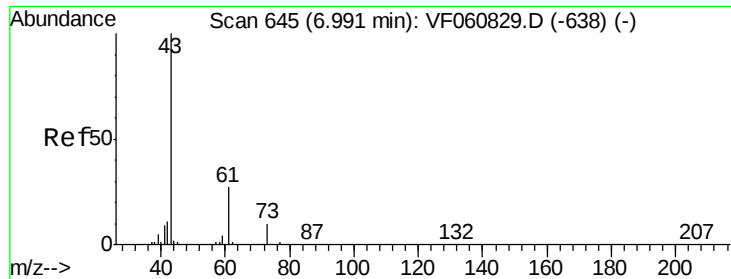
apatel
12/4/2018 2:47:13 PM



#42
1,2-Dichloroethane
Concen: 58.236 ug/l
RT: 4.96 min Scan# 439
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.2	0.0	17.2	





#43

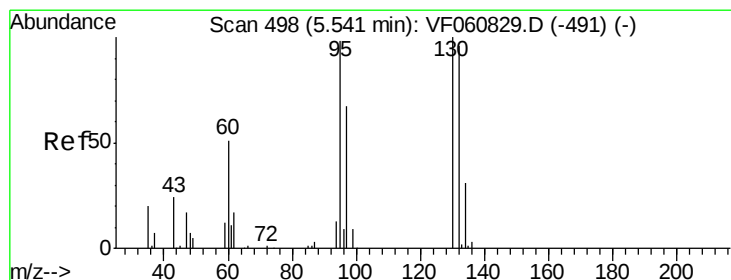
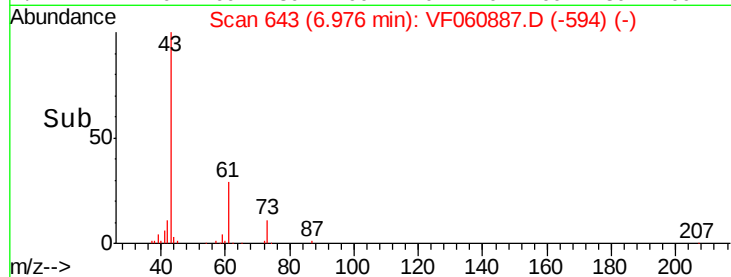
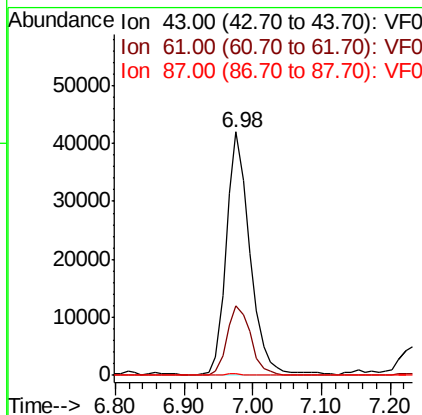
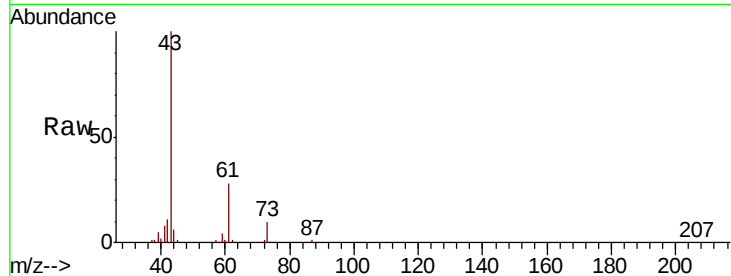
Isopropyl Acetate
 Concen: 62.525 ug/l
 RT: 6.98 min Scan# 643
 Delta R.T. -0.01 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.4	21.4	32.0
87	0.5	0.2	0.4

Manual Integrations
 APPROVED

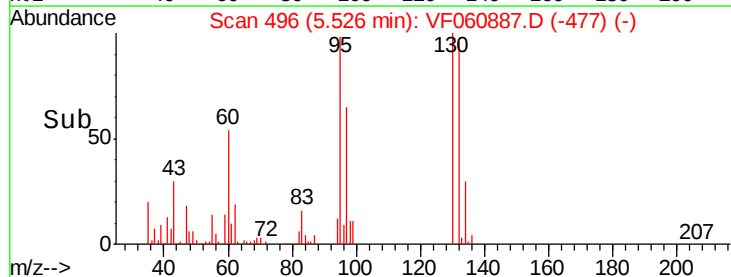
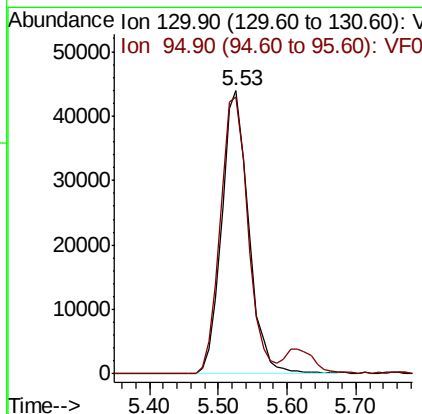
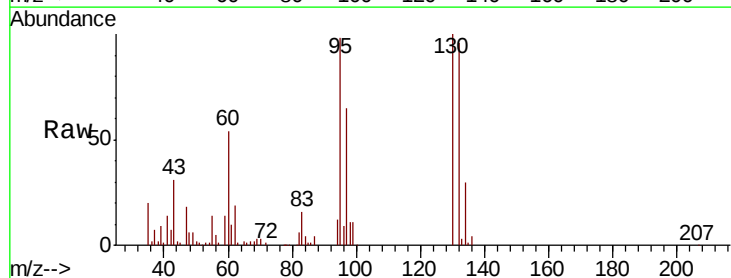
apatel
 12/4/2018 2:47:13 PM

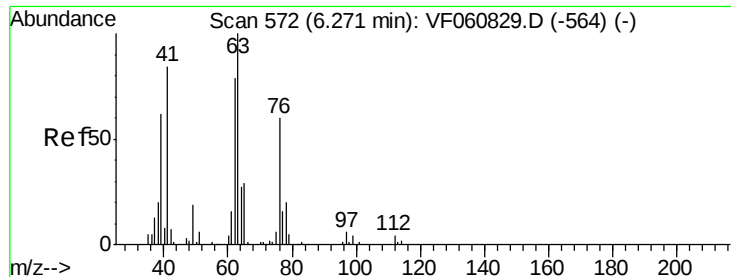


#44

Trichloroethene
 Concen: 51.142 ug/l
 RT: 5.53 min Scan# 496
 Delta R.T. -0.01 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	195.6





#45

1,2-Dichloropropane

Concen: 55.264 ug/l

RT: 6.26 min Scan# 570

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 102702

Ion Ratio Lower Upper

63 100

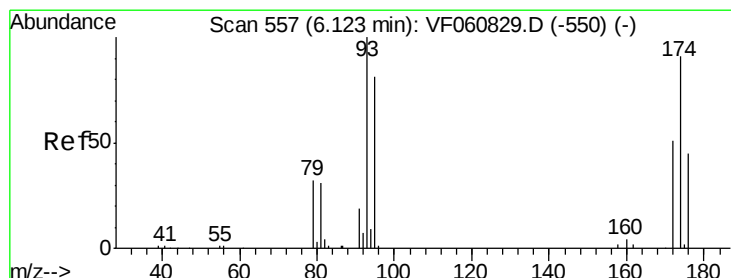
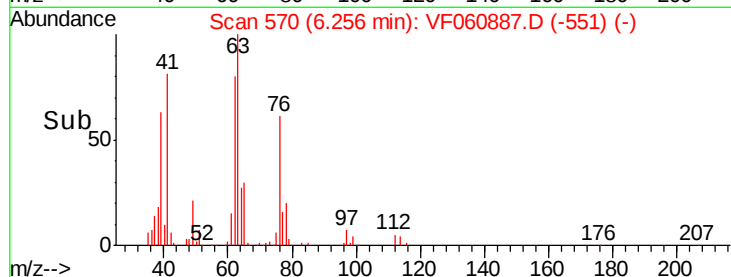
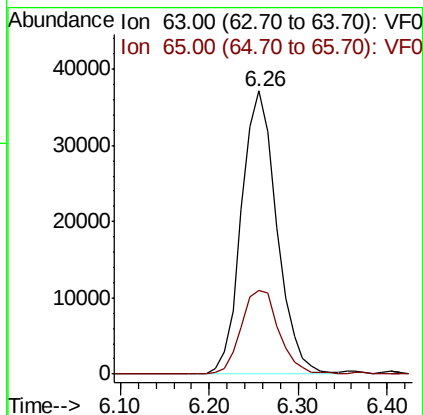
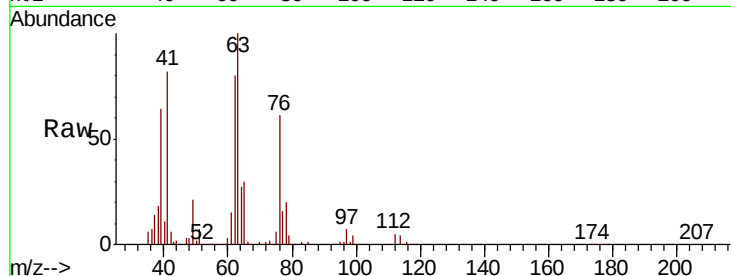
65 29.6 23.2 34.8

Manual Integrations

APPROVED

apatel

12/4/2018 2:47:13 PM



#46

Dibromomethane

Concen: 55.069 ug/l

RT: 6.11 min Scan# 555

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

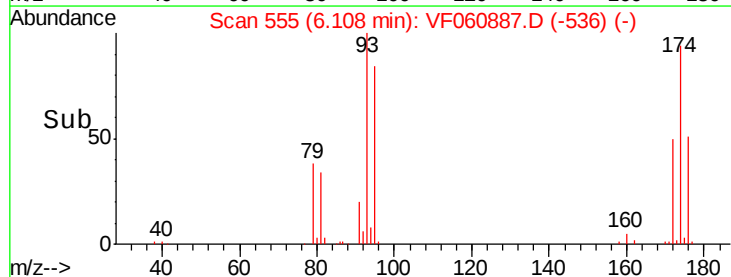
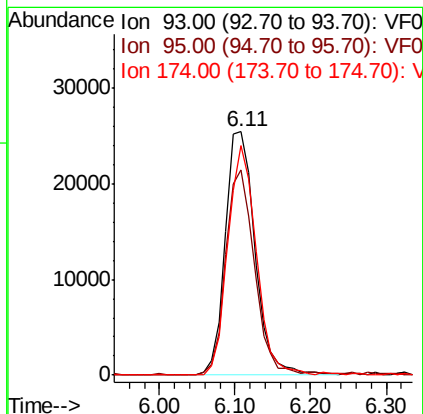
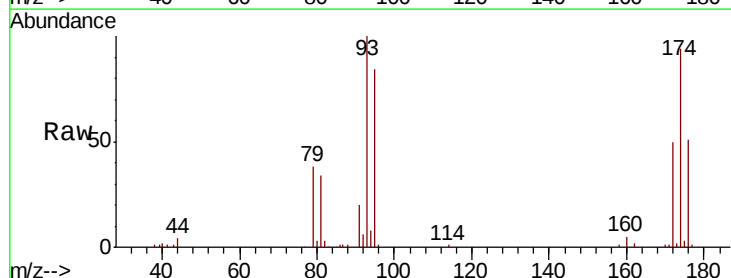
Tgt Ion: 93 Resp: 69423

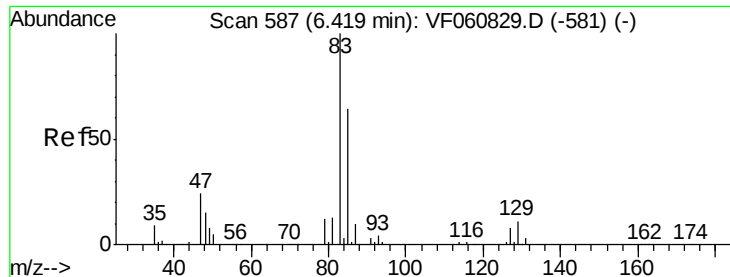
Ion Ratio Lower Upper

93 100

95 84.1 64.7 97.1

174 94.3 73.0 109.6





#47

Bromodichloromethane

Concen: 54.488 ug/l

RT: 6.40 min Scan# 585

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

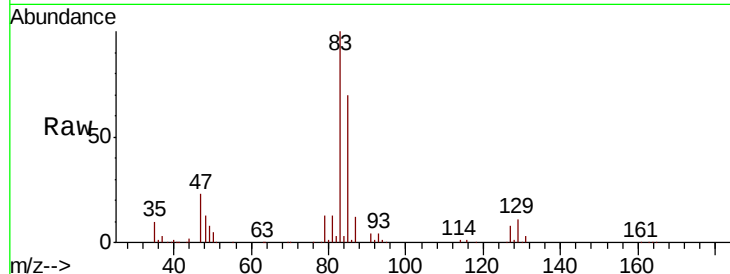
ClientSampleId :

VSTDCCC050

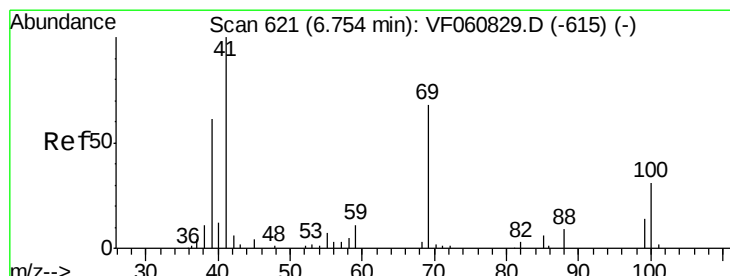
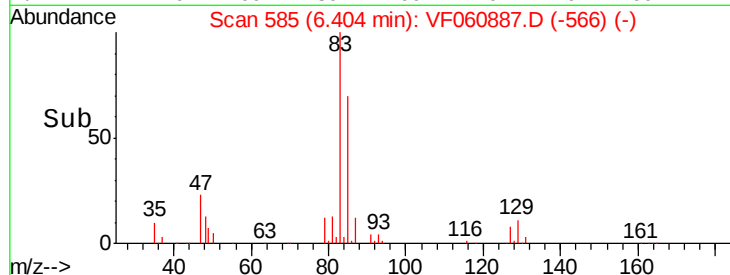
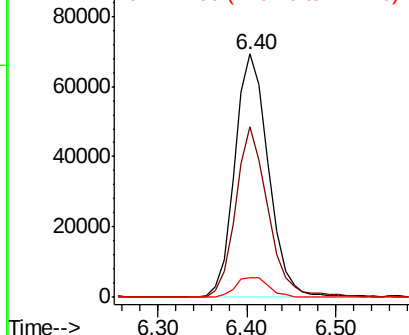
Tot Ion:	83	Resp:	182443
Ion	Ratio	Lower	Upper
83	100		
85	70.1	51.1	76.7
127	8.2	6.8	10.2

Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



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



#48

Methyl methacrylate

Concen: 54.259 ug/l

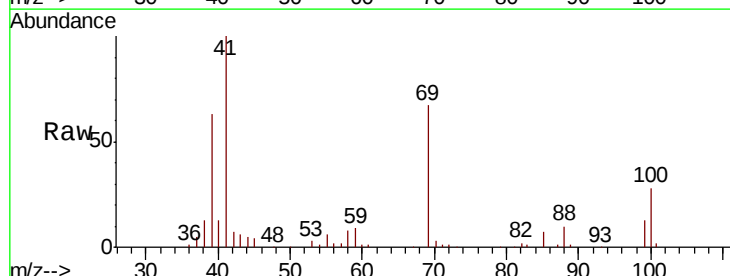
RT: 6.74 min Scan# 619

Delta R.T. -0.01 min

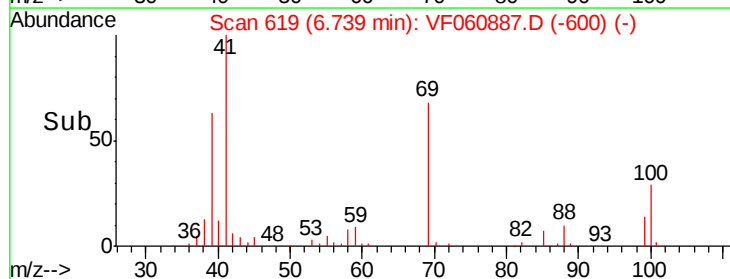
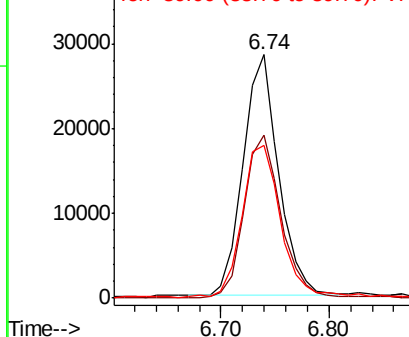
Lab File: VF060887.D

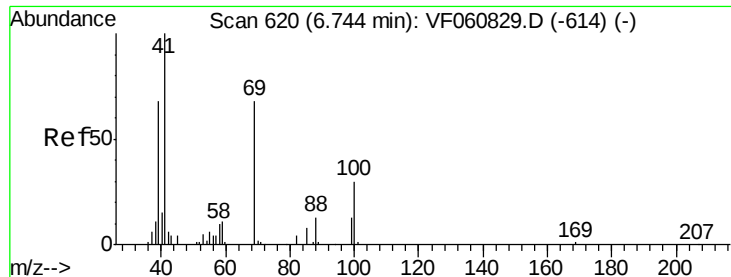
Acq: 3 Dec 2018 12:50

Tgt Ion:	41	Resp:	64644
Ion	Ratio	Lower	Upper
41	100		
69	67.2	53.9	80.9
39	62.9	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





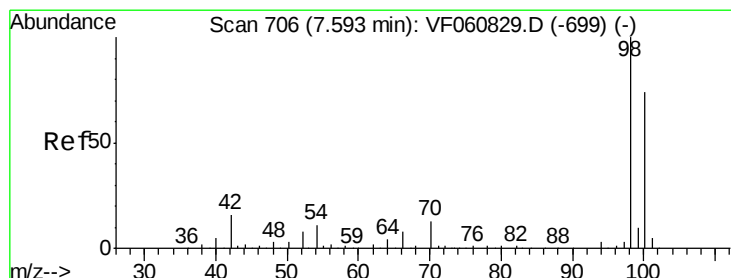
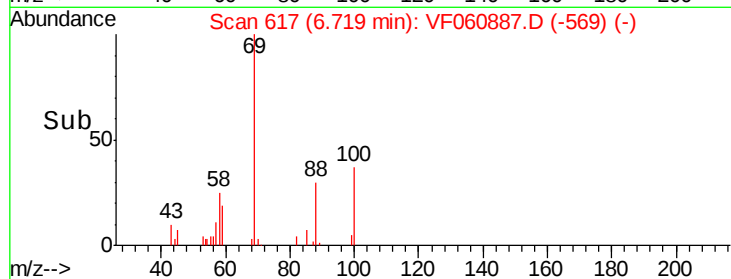
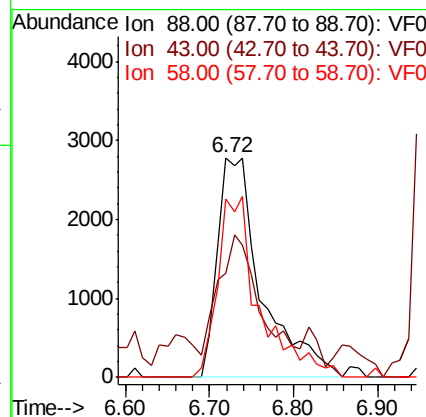
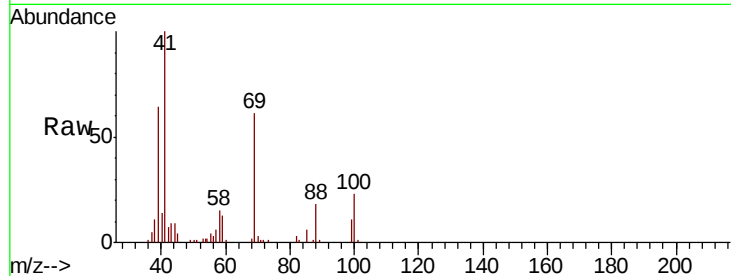
#49
1,4-Dioxane
Concen: 1167.723 ug/l
RT: 6.72 min Scan# 617
Delta R.T. -0.02 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	47.2	42.0	63.0	
58	81.1	61.8	92.8	

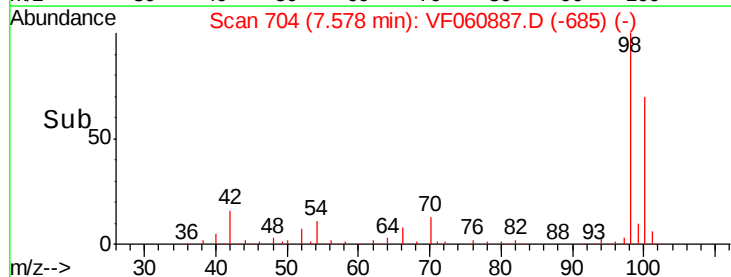
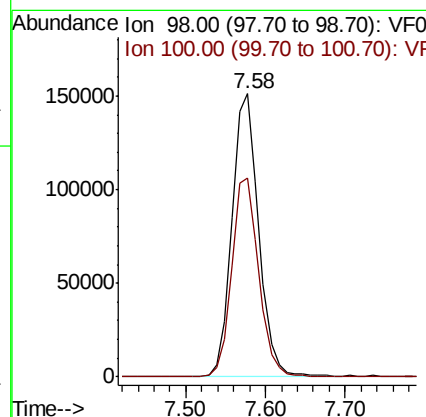
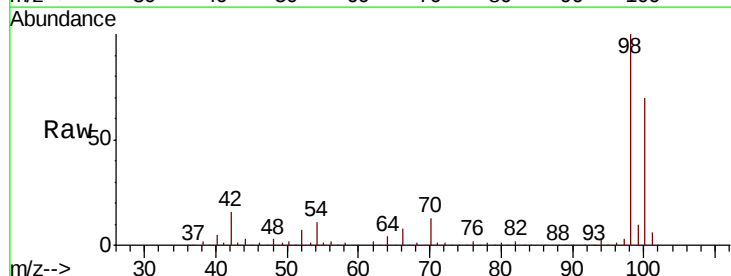
Manual Integrations
APPROVED

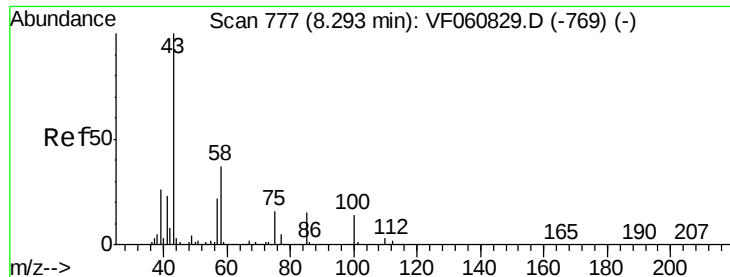
apatel
12/4/2018 2:47:13 PM



#50
Toluene-d8
Concen: 52.227 ug/l
RT: 7.58 min Scan# 704
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	70.4	59.3	88.9	





#51

4-Methyl-2-Pentanone

Concen: 276.880 ug/l

RT: 8.28 min Scan# 775

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 336066

Ion Ratio Lower Upper

43 100

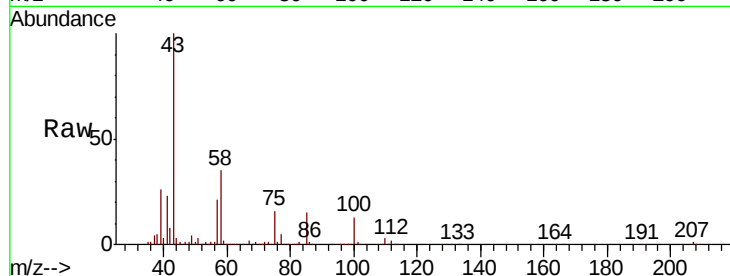
58 34.8 29.7 44.5

Manual Integrations

APPROVED

apatel

12/4/2018 2:47:13 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

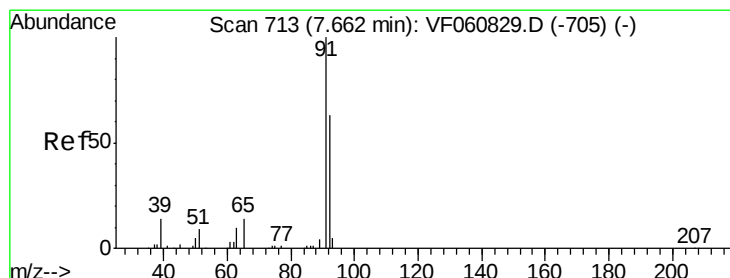
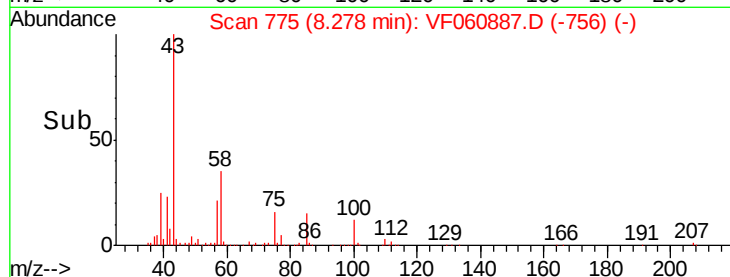
100000

50000

0

8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 50.347 ug/l

RT: 7.65 min Scan# 711

Delta R.T. -0.01 min

Lab File: VF060887.D

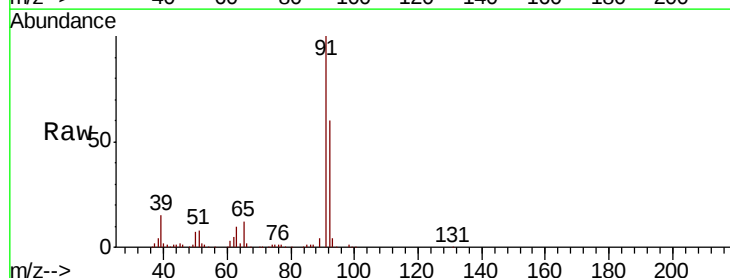
Acq: 3 Dec 2018 12:50

Tgt Ion: 92 Resp: 253047

Ion Ratio Lower Upper

92 100

91 165.4 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

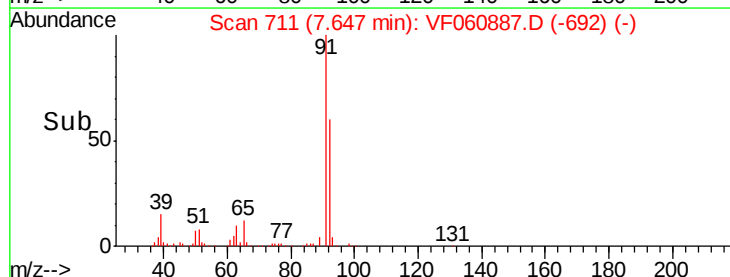
100000

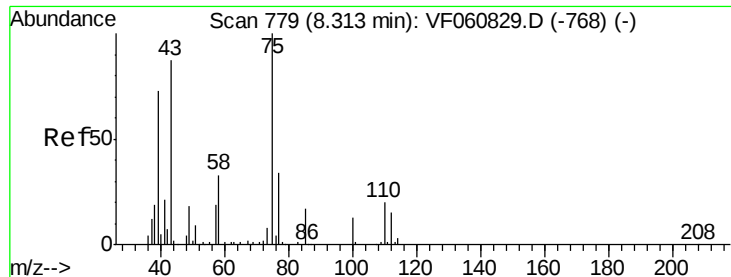
50000

0

7.50 7.60 7.70 7.80

Time-->





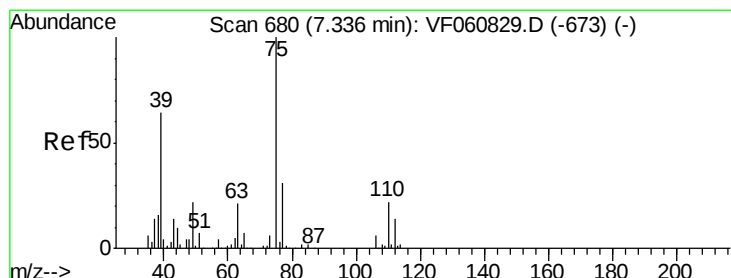
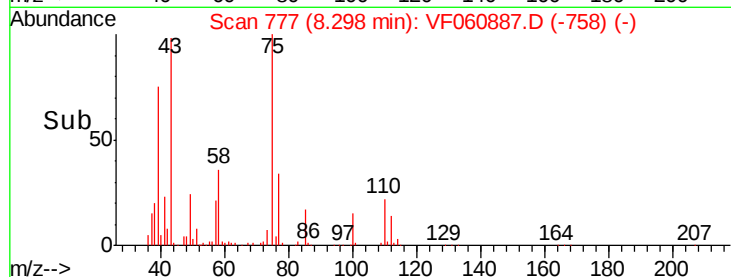
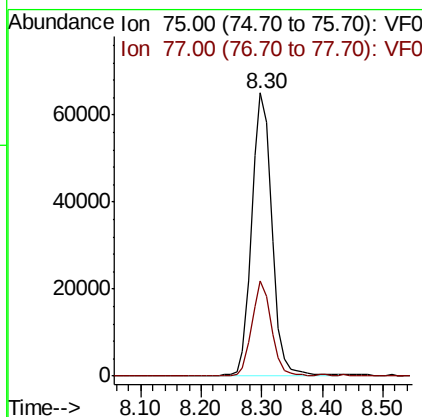
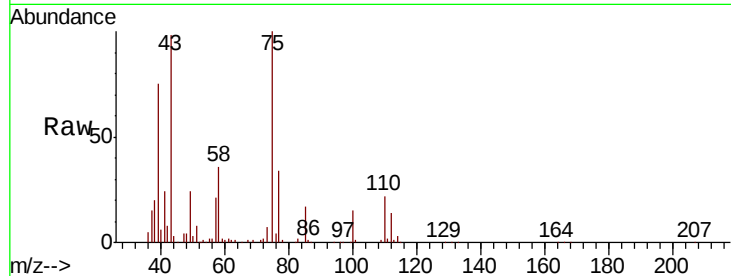
#53
t-1,3-Dichloropropene
Concen: 55.800 ug/l
RT: 8.30 min Scan# 777
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 151973
Ion Ratio Lower Upper
75 100
77 33.8 27.4 41.2

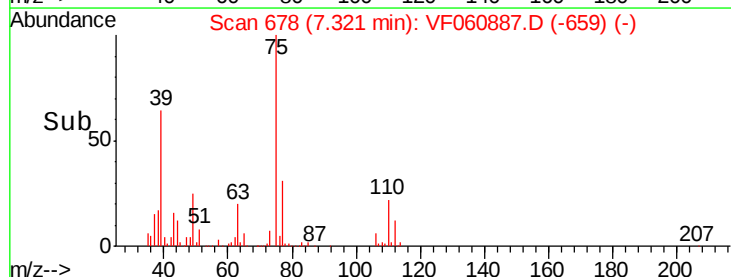
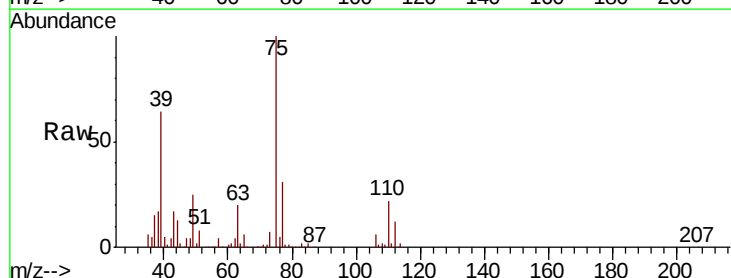
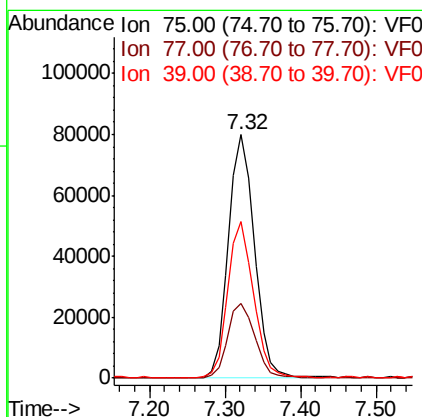
Manual Integrations
APPROVED

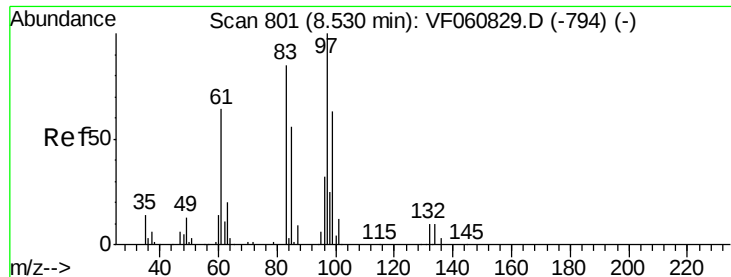
apatel
12/4/2018 2:47:13 PM



#54
cis-1,3-Dichloropropene
Concen: 56.697 ug/l
RT: 7.32 min Scan# 678
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion: 75 Resp: 191163
Ion Ratio Lower Upper
75 100
77 30.5 25.0 37.6
39 64.2 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 52.656 ug/l

RT: 8.51 min Scan# 799

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

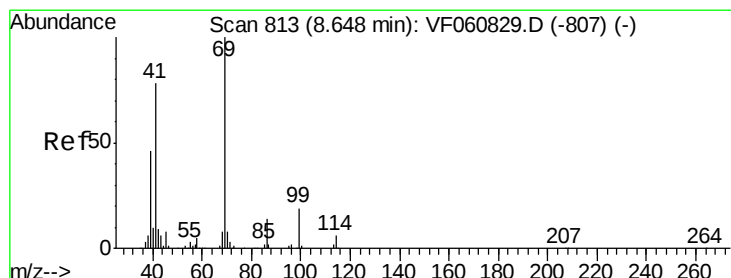
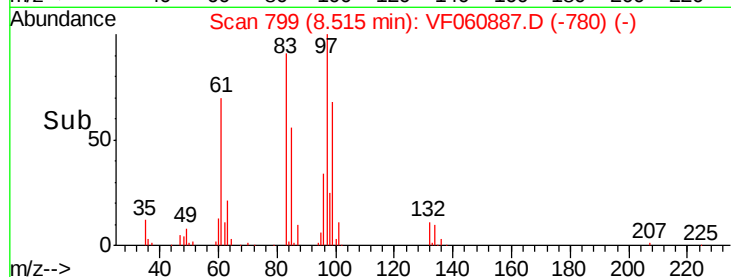
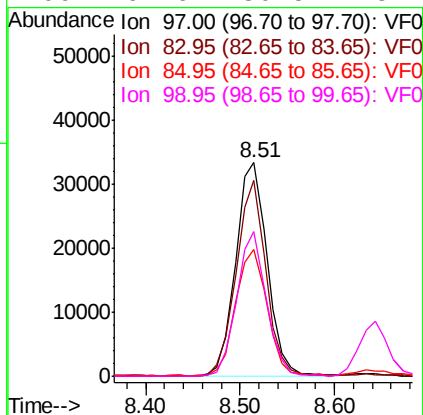
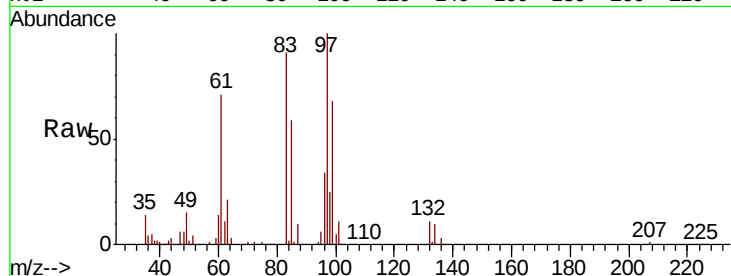
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	77117
Ion	Ratio	Lower	Upper
97	100		
83	91.5	67.8	101.6
85	59.2	45.0	67.6
99	67.6	50.5	75.7

Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#56

Ethyl methacrylate

Concen: 58.292 ug/l

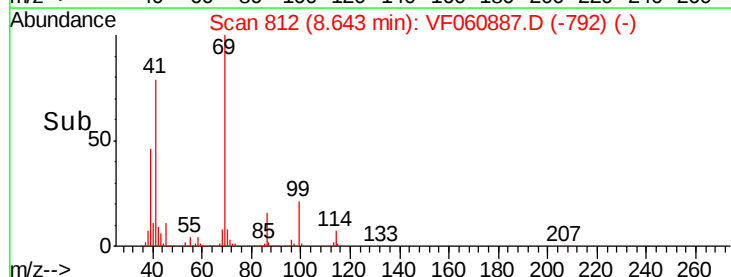
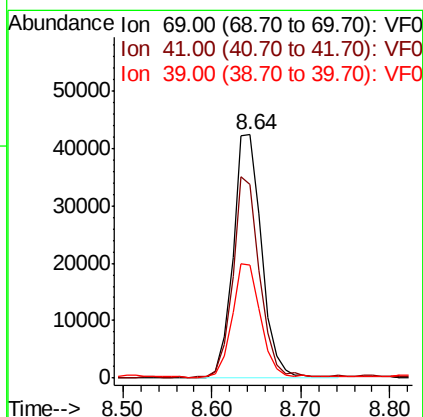
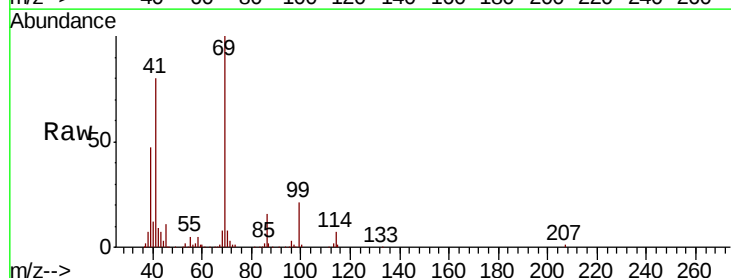
RT: 8.64 min Scan# 812

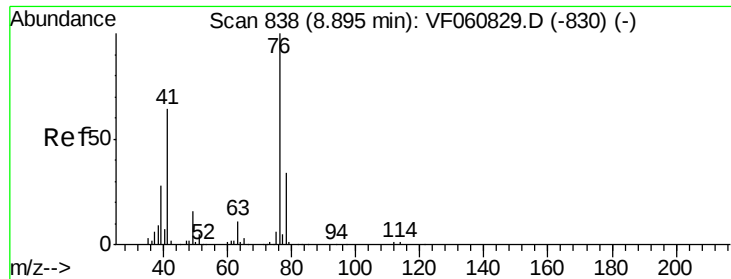
Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Tgt Ion:	69	Resp:	94836
Ion	Ratio	Lower	Upper
69	100		
41	79.5	62.6	94.0
39	46.6	37.8	56.6





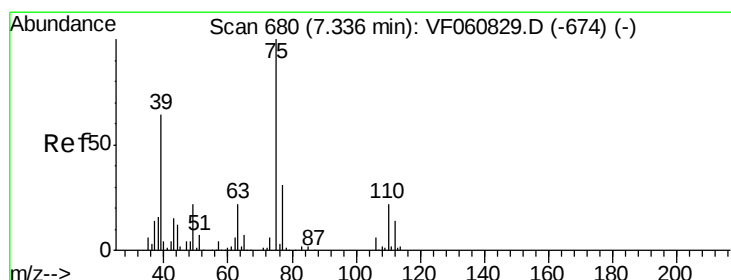
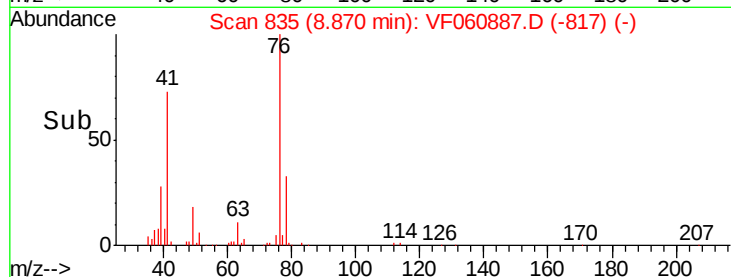
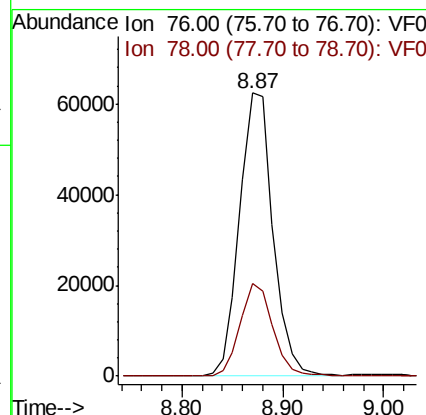
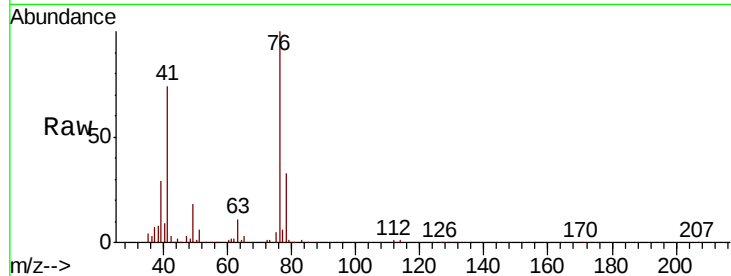
#57
 1,3-Dichloropropane
 Concen: 56.626 ug/l
 RT: 8.87 min Scan# 835
 Delta R.T. -0.02 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 145091
 Ion Ratio Lower Upper
 76 100
 78 32.6 27.0 40.4

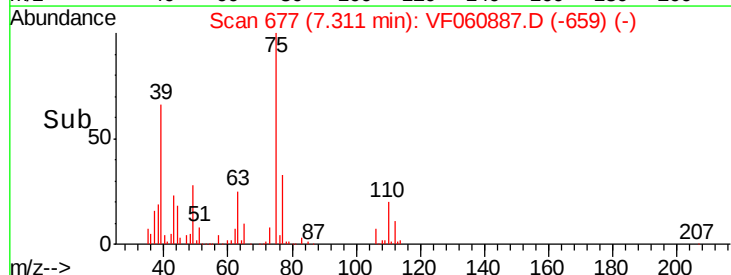
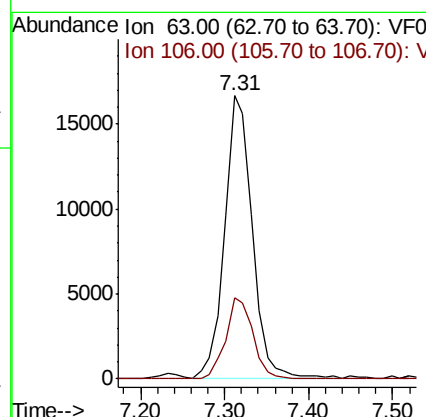
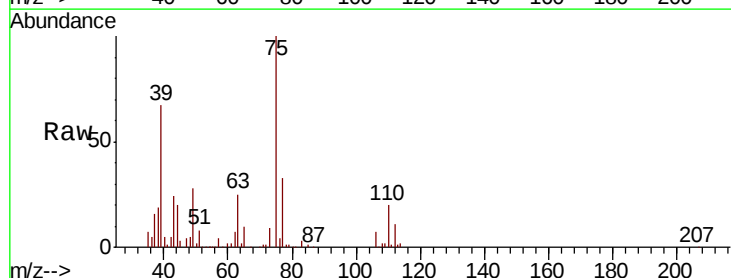
Manual Integrations
 APPROVED

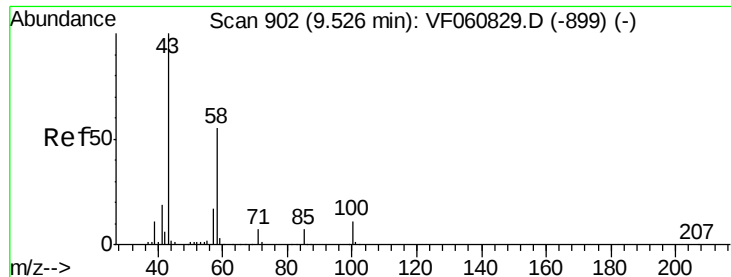
apatel
 12/4/2018 2:47:13 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 228.886 ug/l
 RT: 7.31 min Scan# 677
 Delta R.T. -0.02 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Tgt Ion: 63 Resp: 38089
 Ion Ratio Lower Upper
 63 100
 106 28.8 23.0 34.6





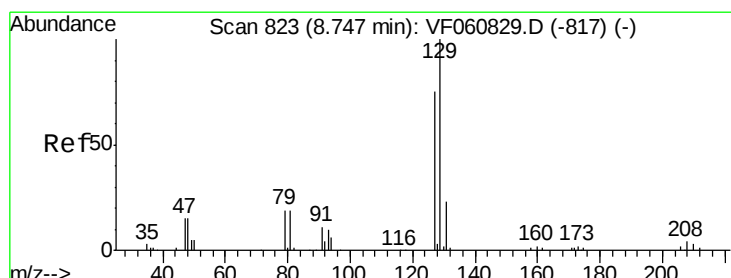
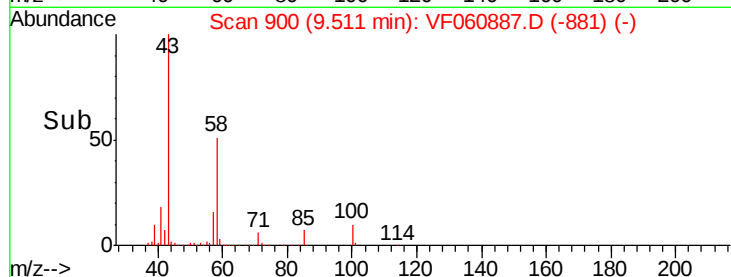
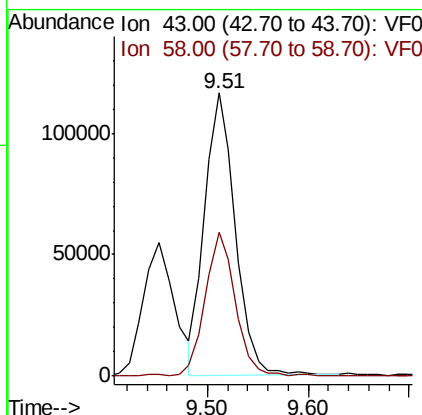
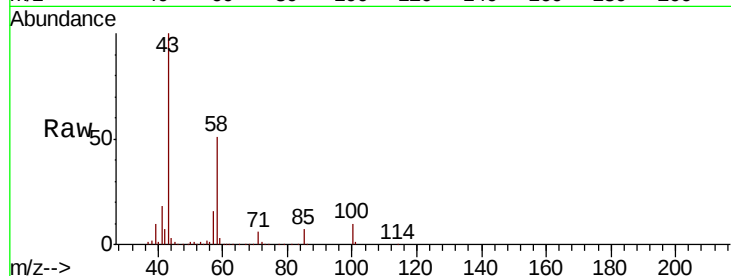
#59
2-Hexanone
Concen: 287.029 ug/l
RT: 9.51 min Scan# 900
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 244413
Ion Ratio Lower Upper
43 100
58 50.9 25.6 76.6

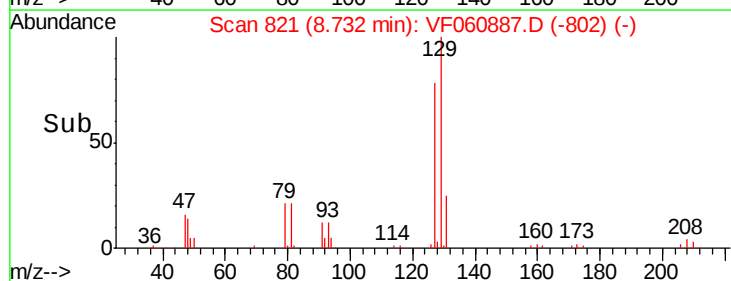
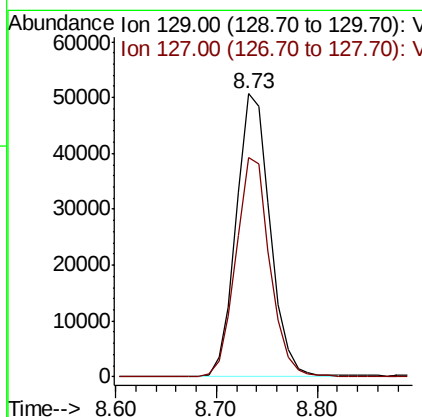
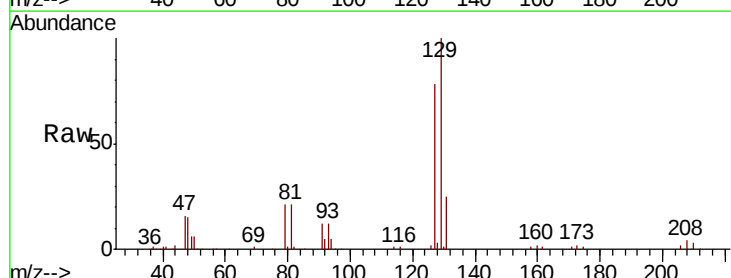
Manual Integrations
APPROVED

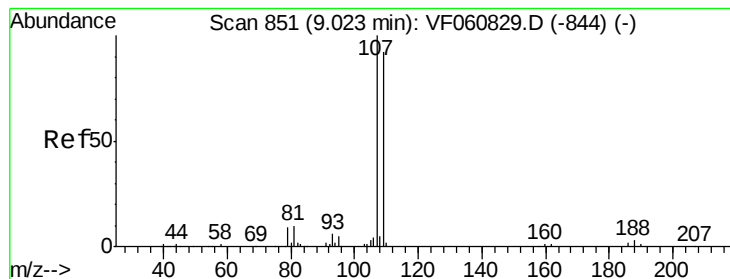
apatel
12/4/2018 2:47:13 PM



#60
Dibromochloromethane
Concen: 54.462 ug/l
RT: 8.73 min Scan# 821
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion: 129 Resp: 118844
Ion Ratio Lower Upper
129 100
127 77.6 37.3 111.9





#61

1,2-Dibromoethane

Concen: 49.742 ug/l

RT: 9.01 min Scan# 849

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 78698

Ion Ratio Lower Upper

107 100

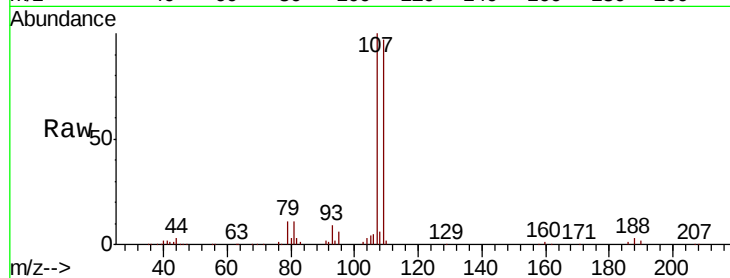
109 96.7 73.6 110.4

Manual Integrations

APPROVED

apatel

12/4/2018 2:47:13 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.01

40000

30000

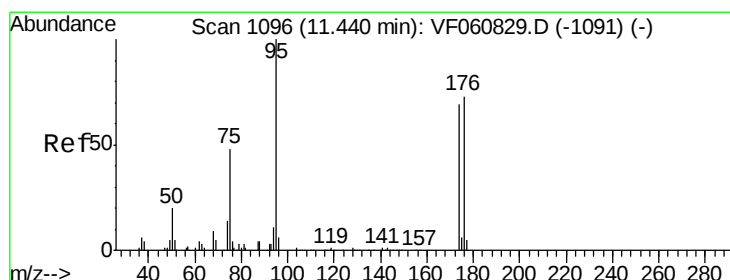
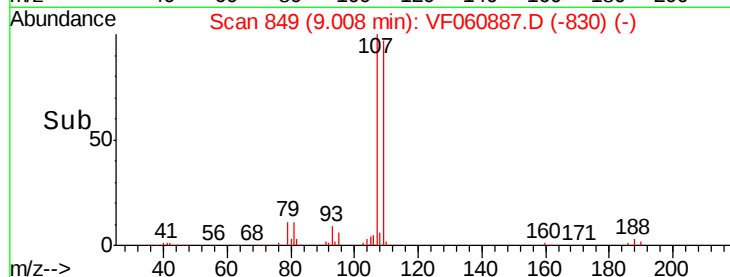
20000

10000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 50.513 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

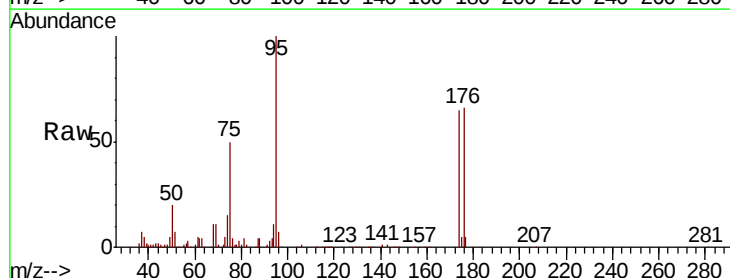
Tgt Ion: 95 Resp: 156663

Ion Ratio Lower Upper

95 100

174 65.0 0.0 138.2

176 65.7 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

120000

100000

80000

60000

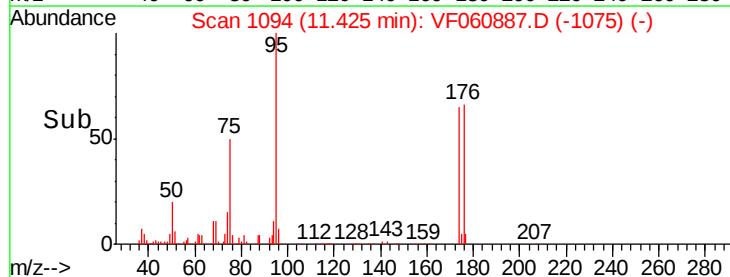
40000

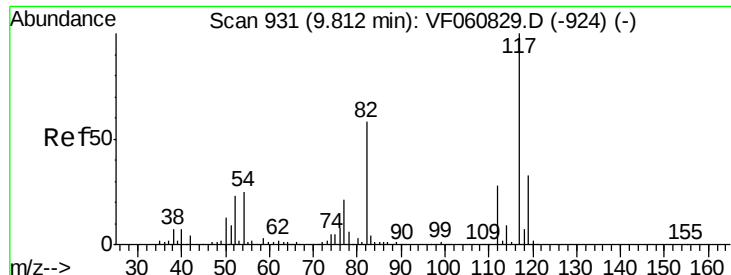
20000

0

11.40 11.42 11.50

Time-->





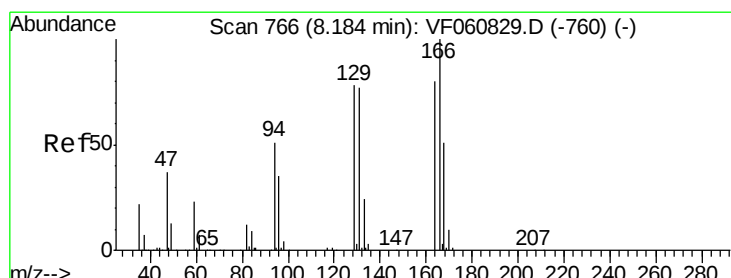
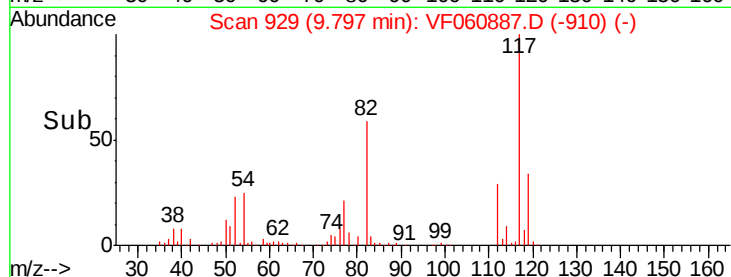
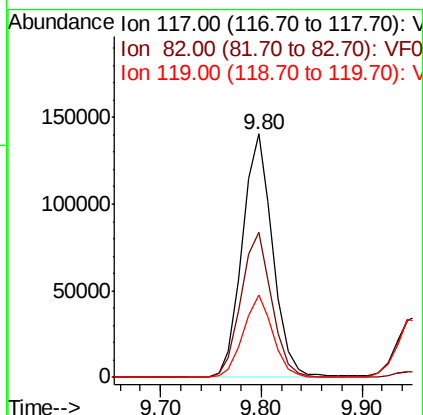
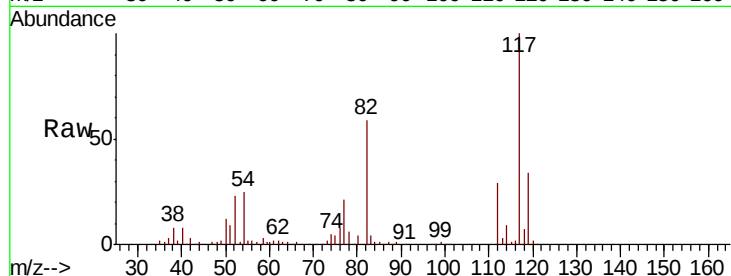
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	295707		
82	59.3	46.6	69.8	
119	34.1	26.4	39.6	

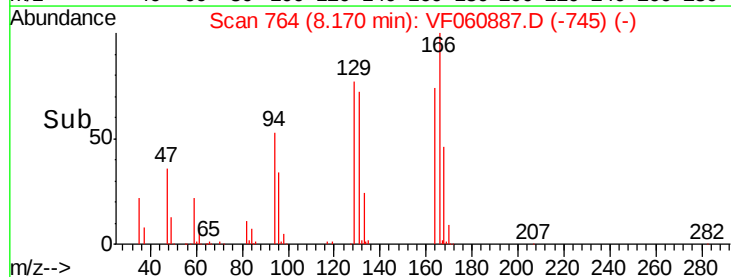
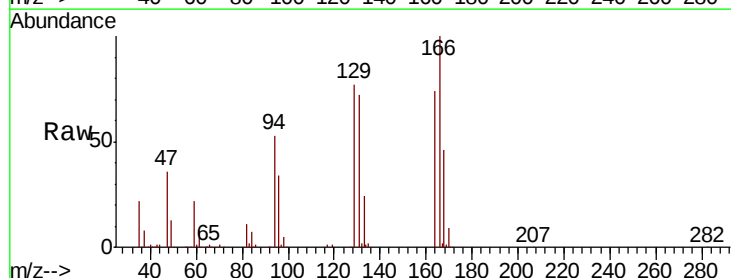
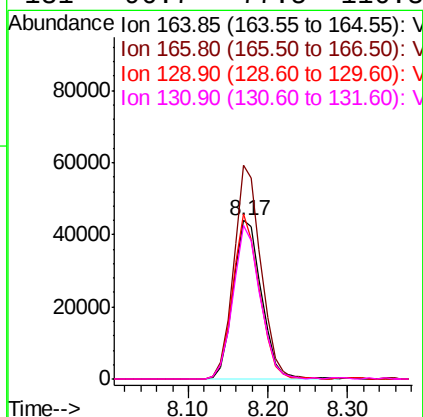
Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#64
Tetrachloroethene
Concen: 48.284 ug/l
RT: 8.17 min Scan# 764
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	109054		
166	134.9	100.3	150.5	
129	104.1	77.9	116.9	
131	96.7	77.5	116.3	





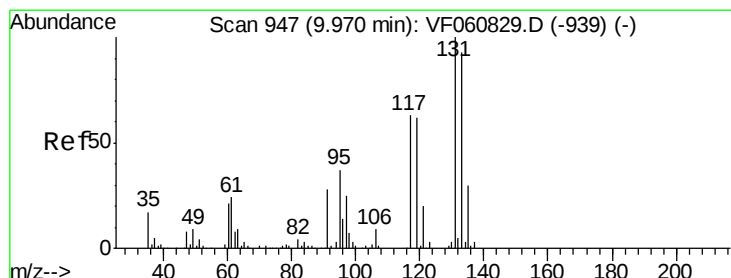
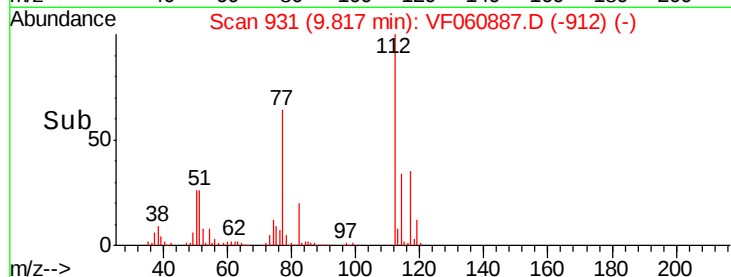
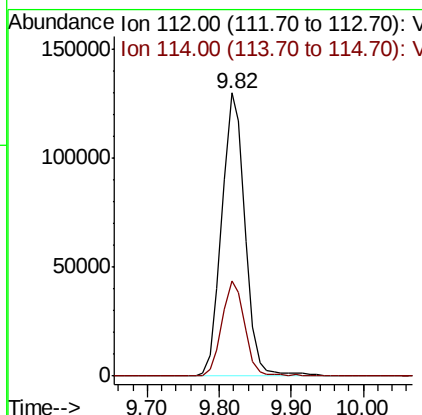
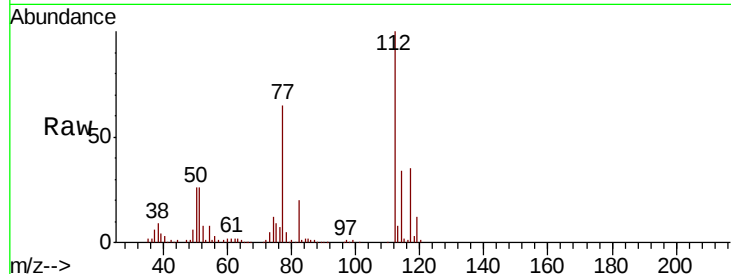
#65
Chlorobenzene
Concen: 50.655 ug/l
RT: 9.82 min Scan# 931
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
112	100	291398		
114	33.6	26.0	39.0	

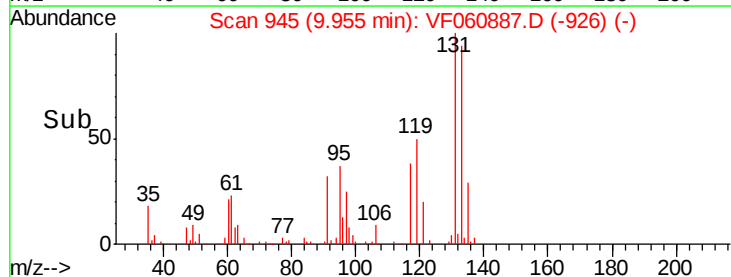
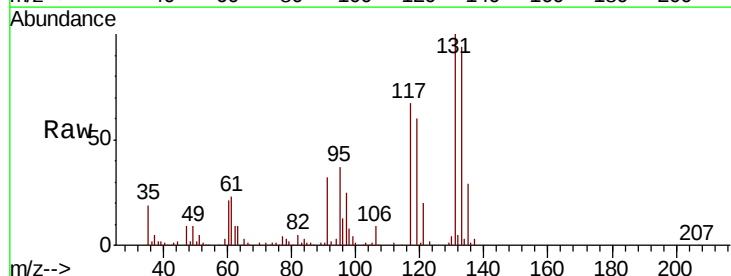
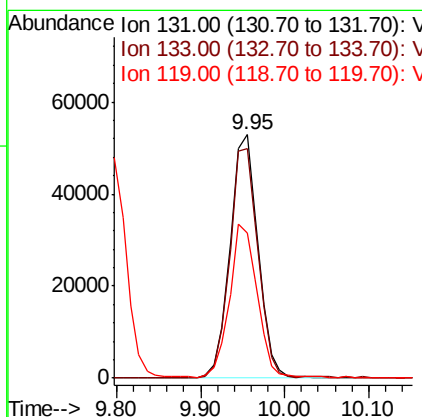
Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.637 ug/l
RT: 9.95 min Scan# 945
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	122755		
133	94.1	46.5	139.3	
119	59.7	31.1	93.3	





#67

Ethyl Benzene

Concen: 50.193 ug/l

RT: 9.92 min Scan# 941

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 537551

Ion Ratio Lower Upper

91 100

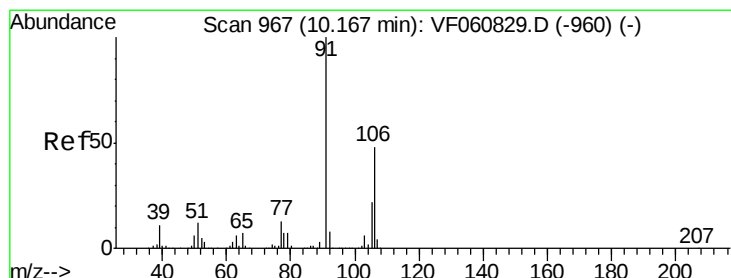
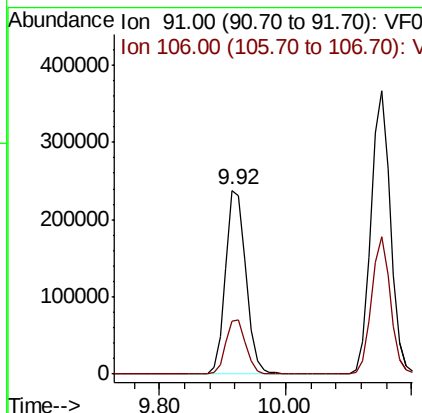
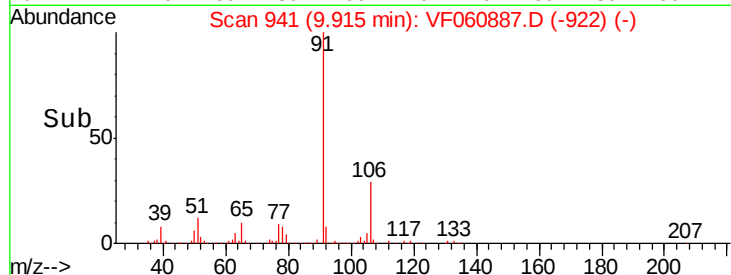
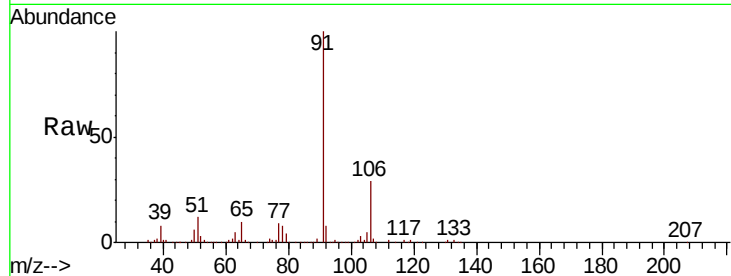
106 28.7 22.2 33.2

Manual Integrations

APPROVED

apatel

12/4/2018 2:47:13 PM



#68

m/p-Xylenes

Concen: 97.543 ug/l

RT: 10.15 min Scan# 965

Delta R.T. -0.01 min

Lab File: VF060887.D

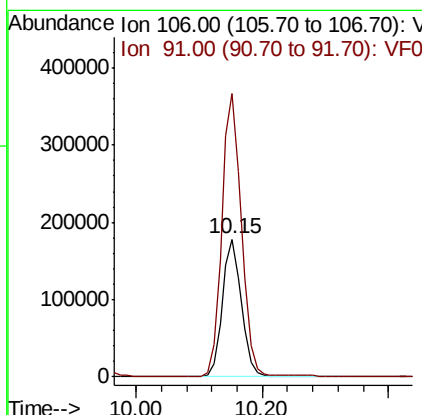
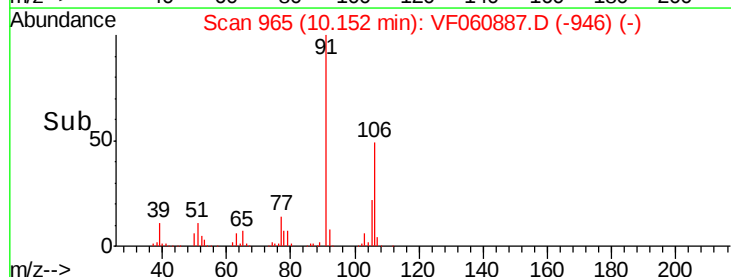
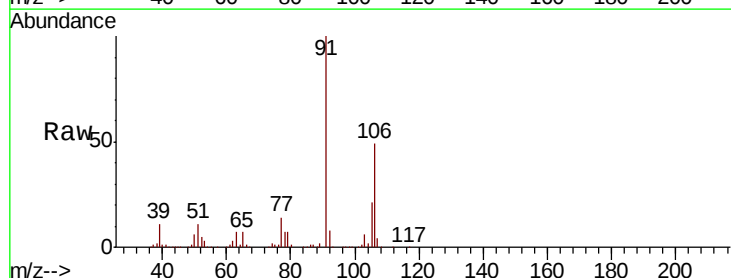
Acq: 3 Dec 2018 12:50

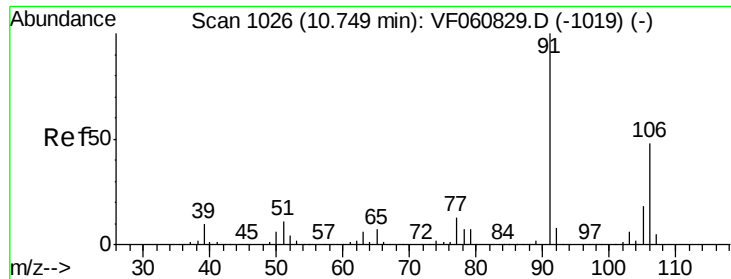
Tgt Ion: 106 Resp: 375721

Ion Ratio Lower Upper

106 100

91 205.0 166.7 250.1





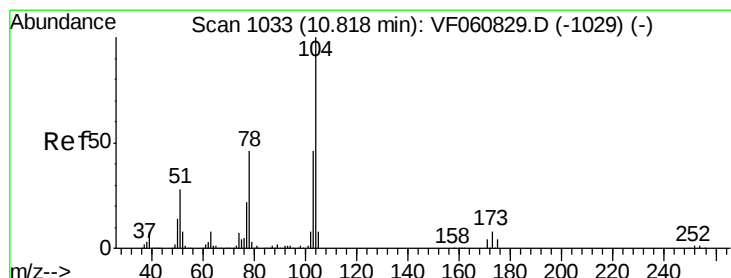
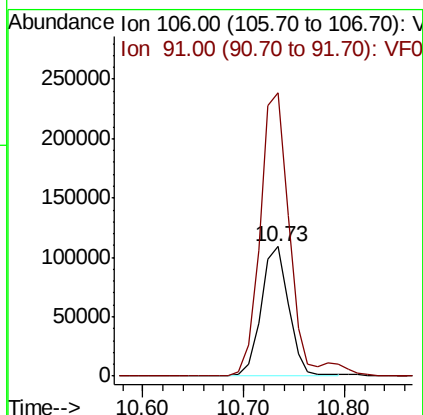
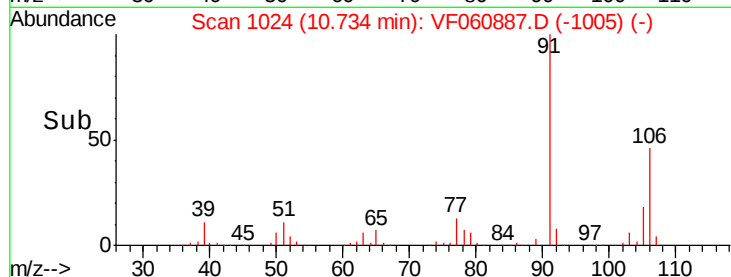
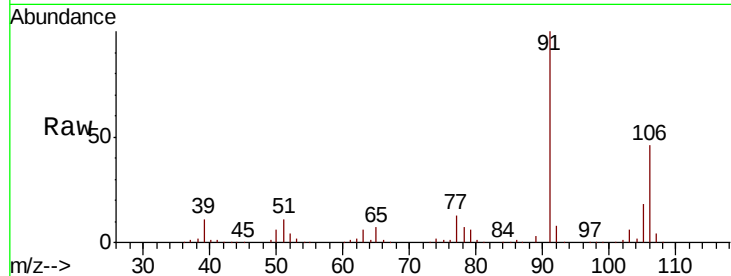
#69
o-Xylene
Concen: 48.917 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 207774
Ion Ratio Lower Upper
106 100
91 218.2 104.8 314.6

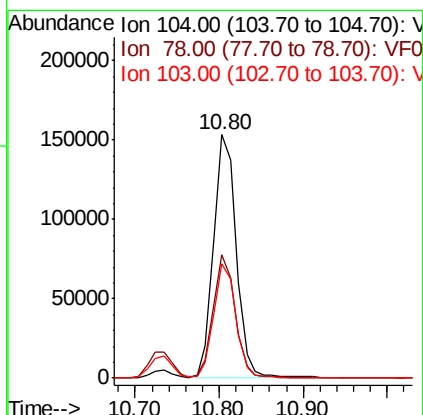
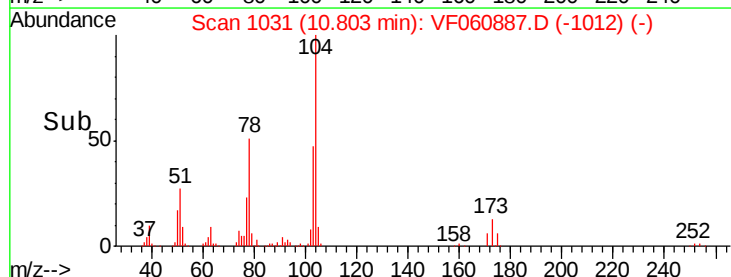
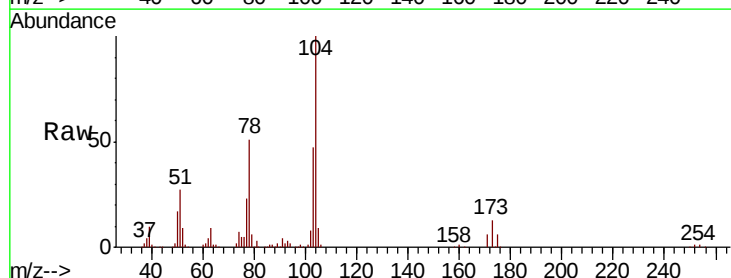
Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#70
Styrene
Concen: 48.933 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion:104 Resp: 288113
Ion Ratio Lower Upper
104 100
78 50.8 37.3 55.9
103 47.0 36.8 55.2





#71

Bromoform

Concen: 54.265 ug/l

RT: 10.79 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

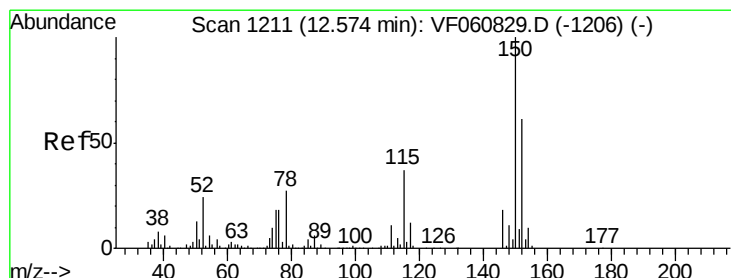
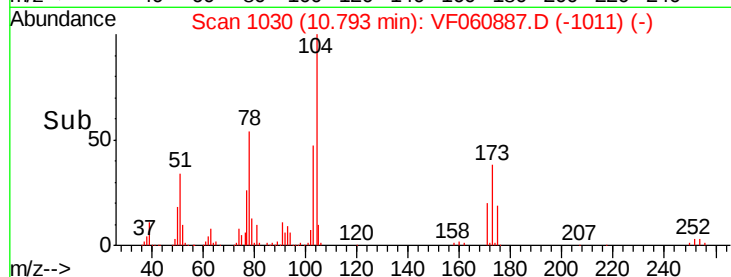
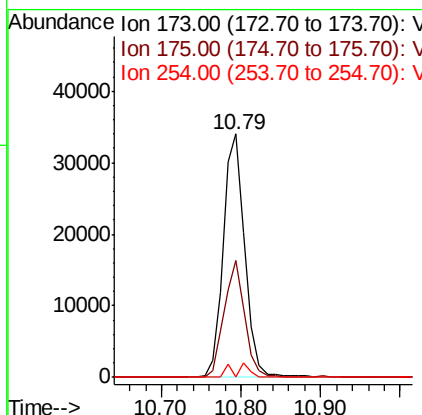
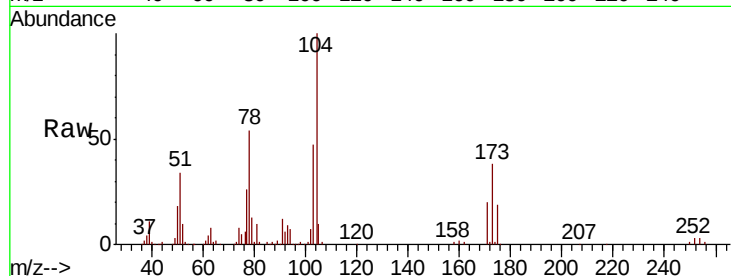
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	25.5	76.5
254	0.0	7.5	11.3

Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

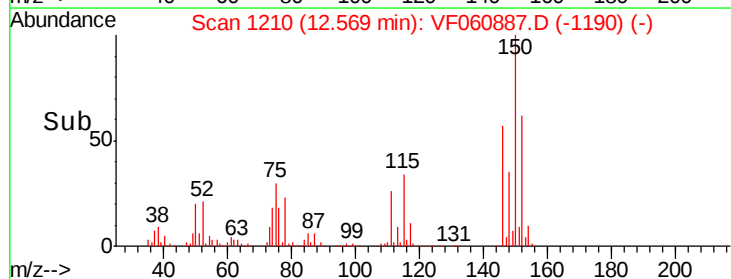
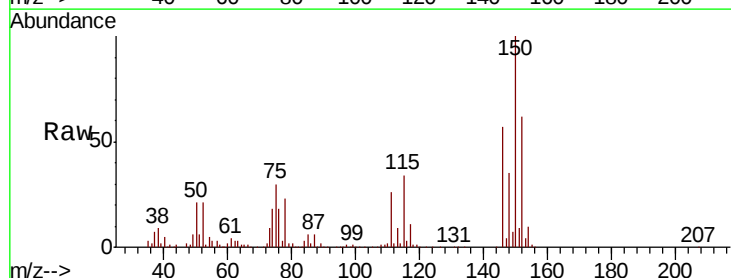
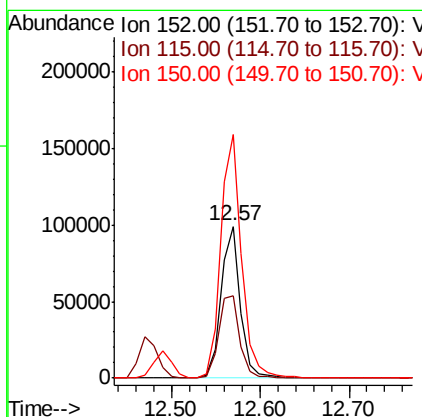
RT: 12.57 min Scan# 1210

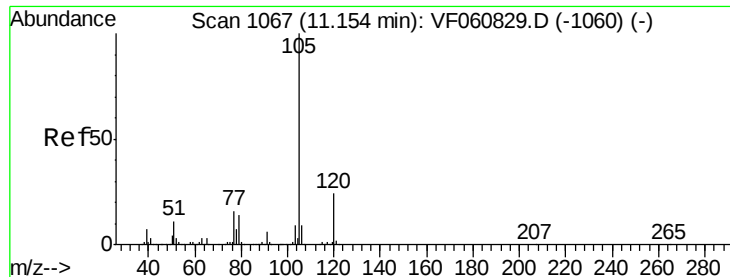
Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.9	30.1	90.5
150	160.3	0.0	327.6





#73

Isopropylbenzene

Concen: 51.983 ug/l

RT: 11.14 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 621461

Ion Ratio Lower Upper

105 100

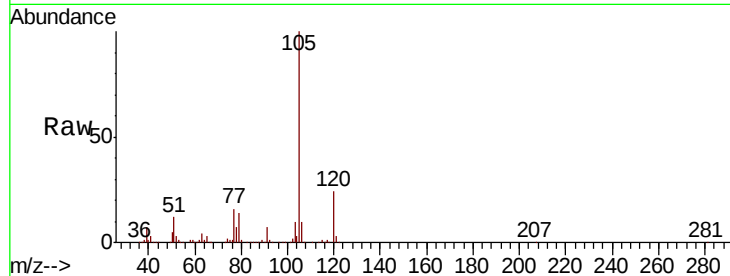
120 24.2 12.2 36.4

Manual Integrations

APPROVED

apatel

12/4/2018 2:47:13 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.14

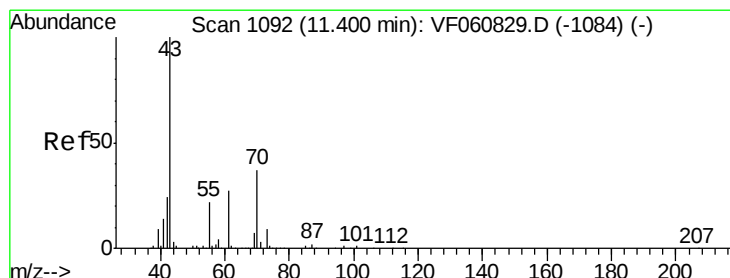
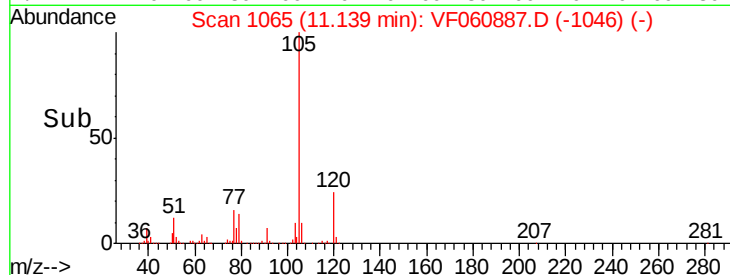
300000

200000

100000

0

Time--> 11.00 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 52.806 ug/l

RT: 11.39 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Tgt Ion: 43 Resp: 145777

Ion Ratio Lower Upper

43 100

70 36.0 29.6 44.4

55 19.6 17.2 25.8

61 24.5 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

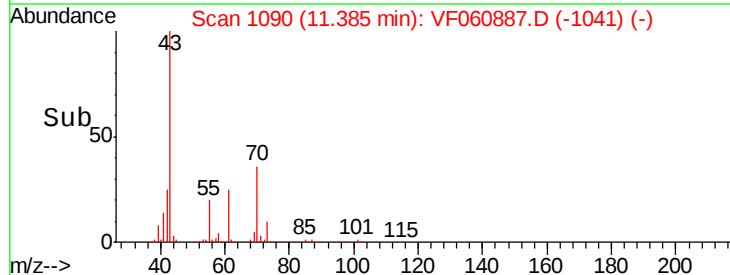
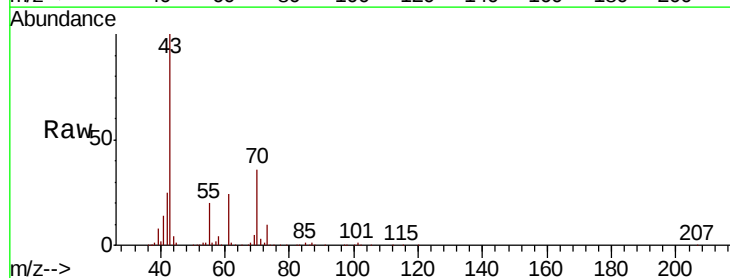
150000

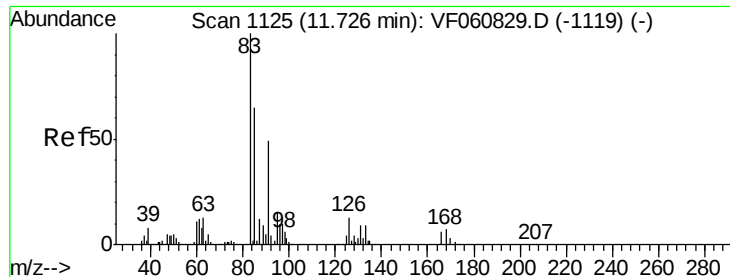
100000

50000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 52.714 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 103717
Ion Ratio Lower Upper

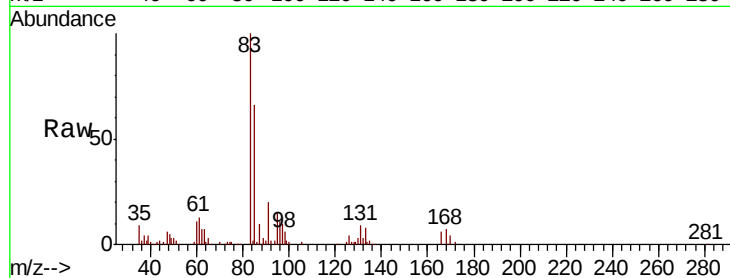
83 100

131 9.4 4.7 14.1

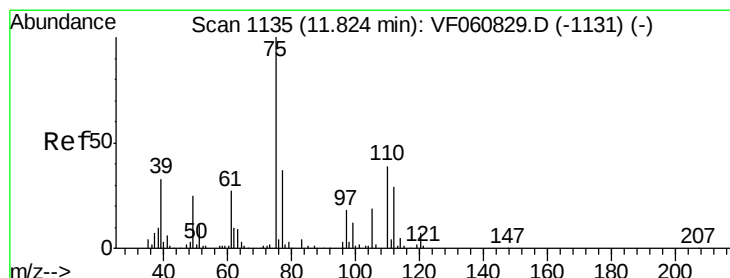
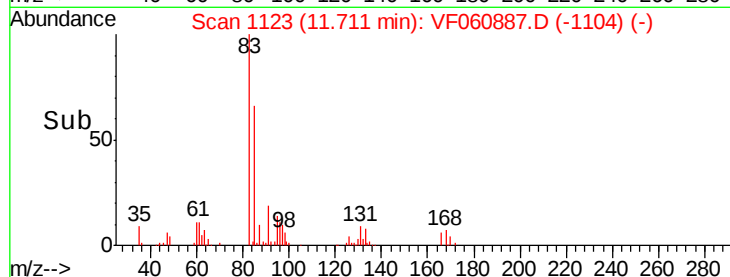
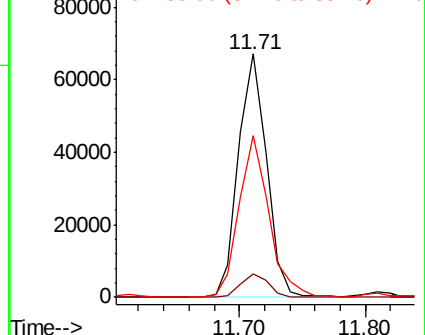
85 66.2 32.6 97.8

Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 51.747 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. -0.01 min

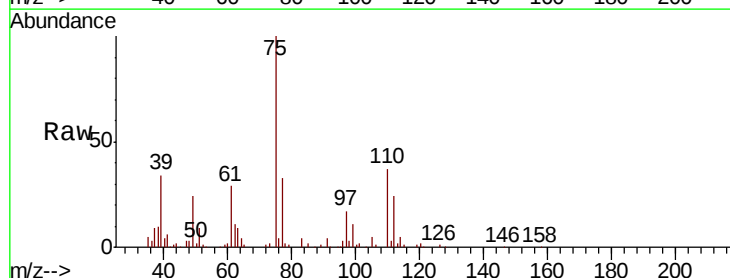
Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

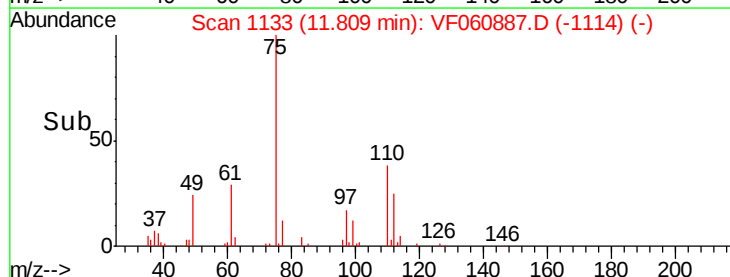
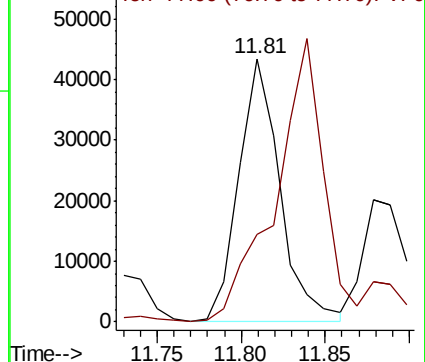
Tgt Ion: 75 Resp: 74006
Ion Ratio Lower Upper

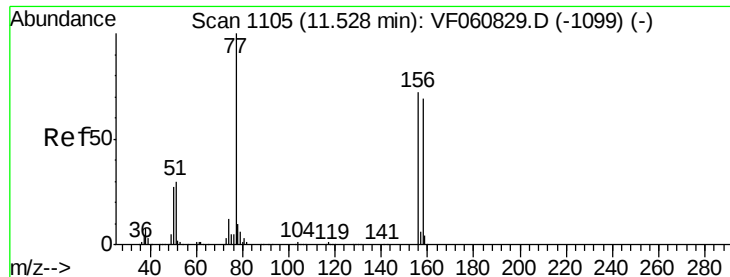
75 100

77 33.2 18.4 55.4



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 52.040 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

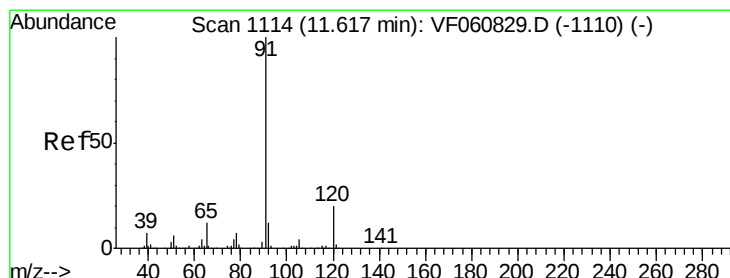
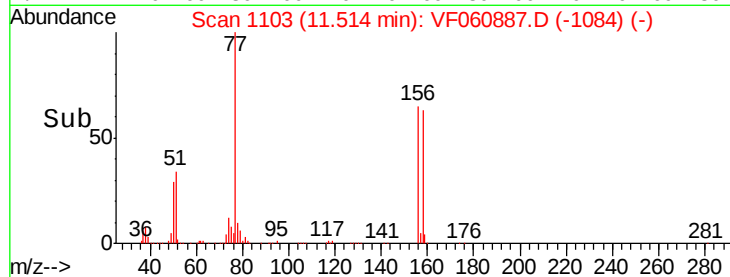
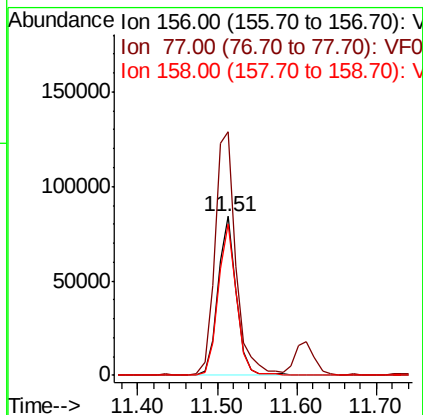
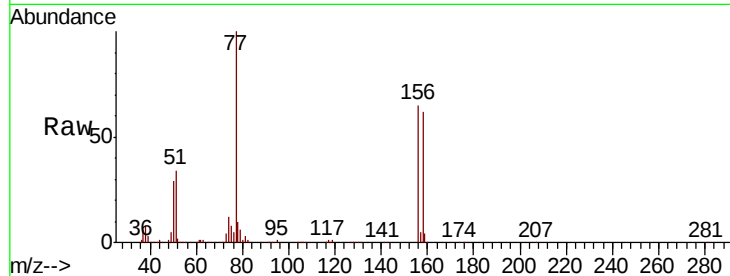
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	136398
Ion Ratio	Lower	Upper	
156	100		
77	153.5	69.7	209.0
158	95.8	47.8	143.4

Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#78

n-propylbenzene

Concen: 50.883 ug/l

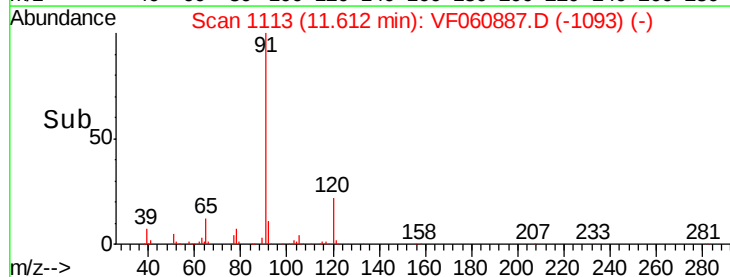
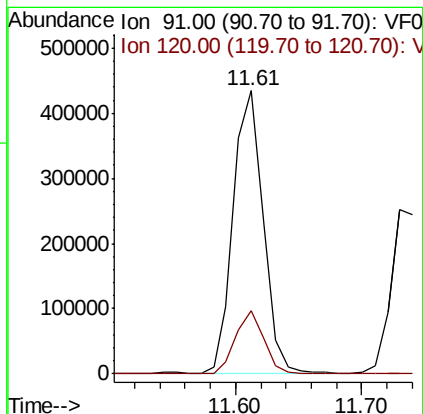
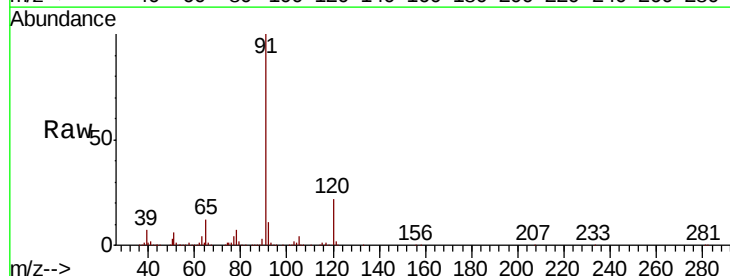
RT: 11.61 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Tgt Ion:	91	Resp:	712379
Ion Ratio	Lower	Upper	
91	100		
120	22.5	10.3	30.8





#79

2-Chlorotoluene

Concen: 52.803 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF060887.D

Acq: 3 Dec 2018 12:50

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 423886

Ion Ratio Lower Upper

91 100

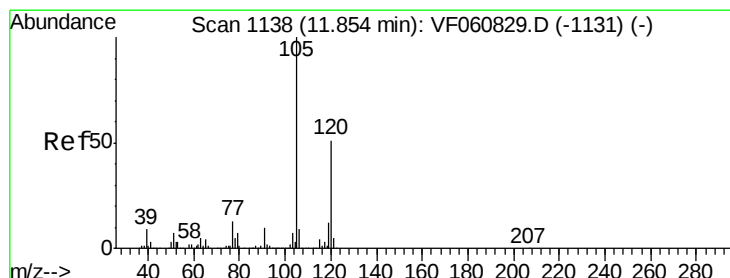
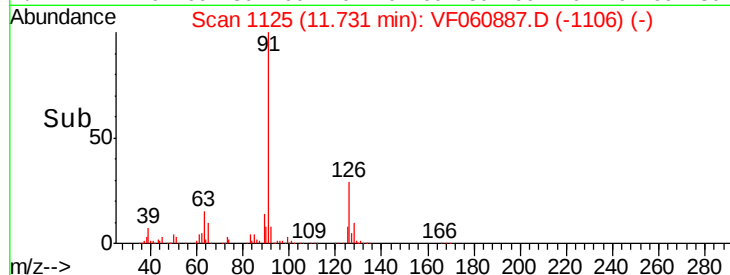
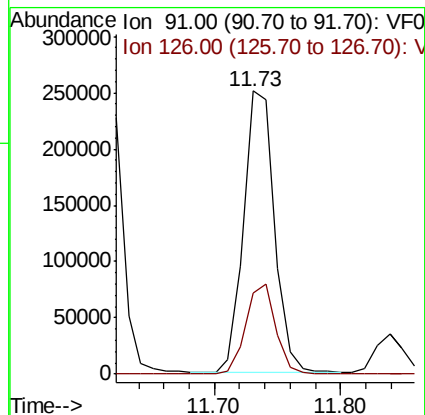
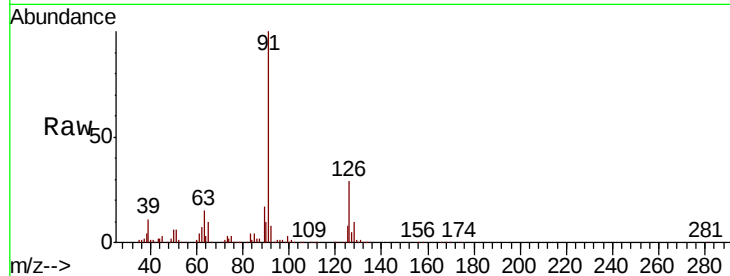
126 28.9 15.9 47.6

Manual Integrations

APPROVED

apatel

12/4/2018 2:47:13 PM



#80

1,3,5-Trimethylbenzene

Concen: 51.085 ug/l

RT: 11.84 min Scan# 1136

Delta R.T. -0.01 min

Lab File: VF060887.D

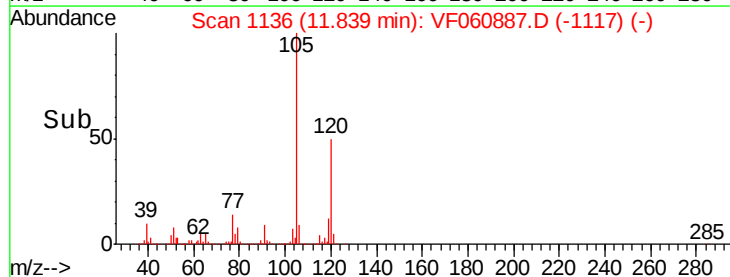
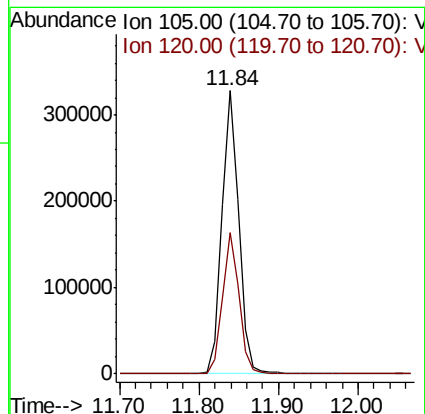
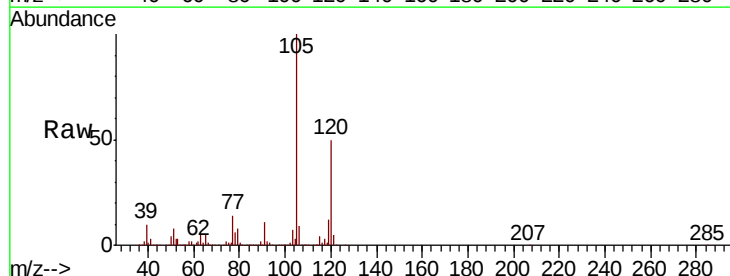
Acq: 3 Dec 2018 12:50

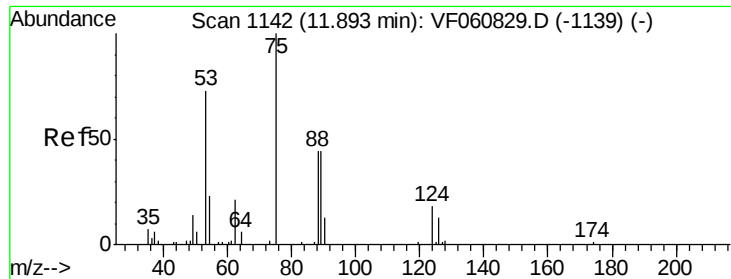
Tgt Ion: 105 Resp: 495795

Ion Ratio Lower Upper

105 100

120 50.0 25.8 77.3





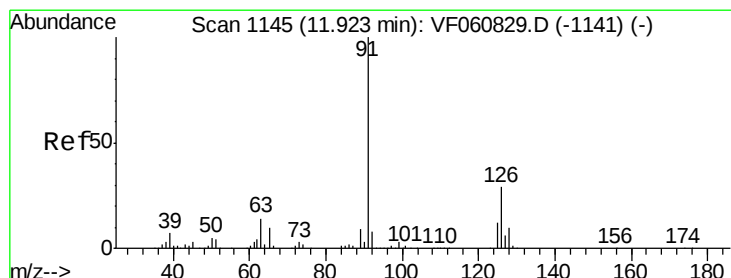
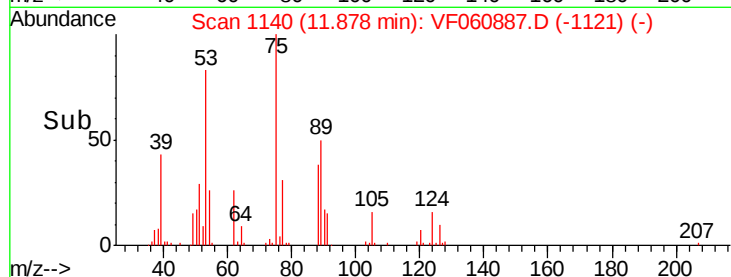
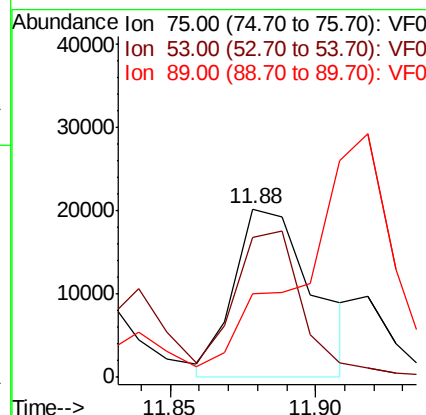
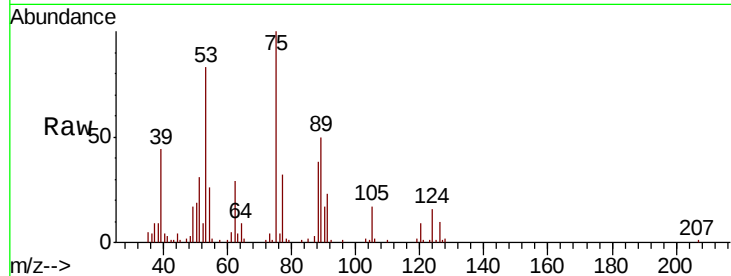
#81
trans-1,4-Dichloro-2-butene
Concen: 54.977 ug/l m
RT: 11.88 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	83.3	65.9	98.9
89	49.9	38.8	58.2

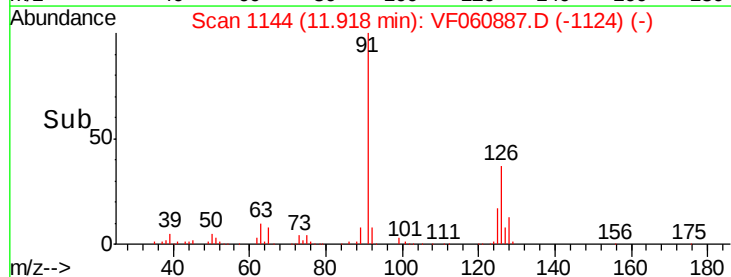
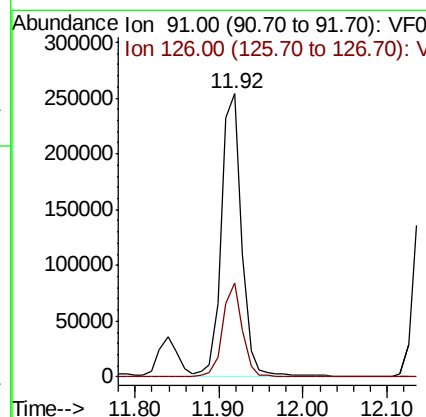
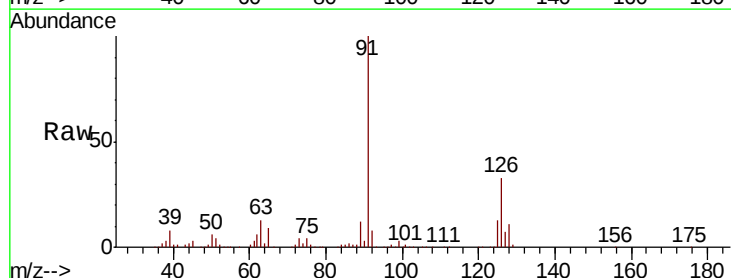
Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#82
4-Chlorotoluene
Concen: 50.156 ug/l
RT: 11.92 min Scan# 1144
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.0	14.8	44.4





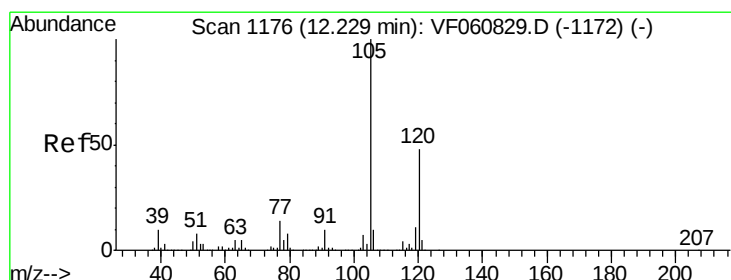
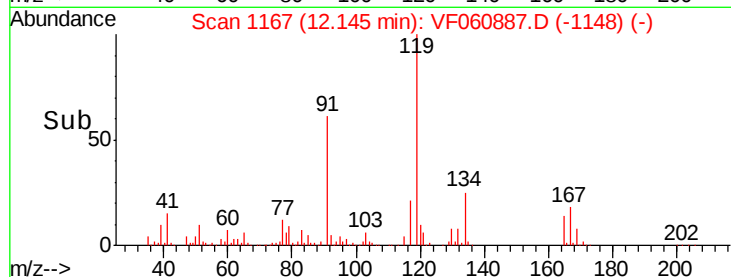
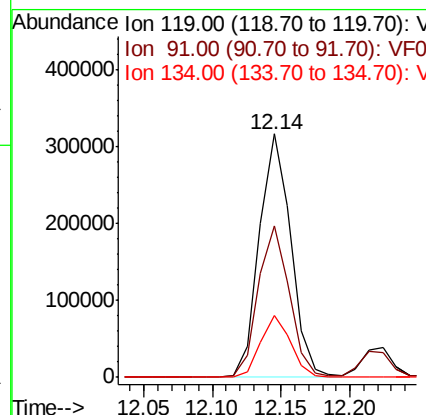
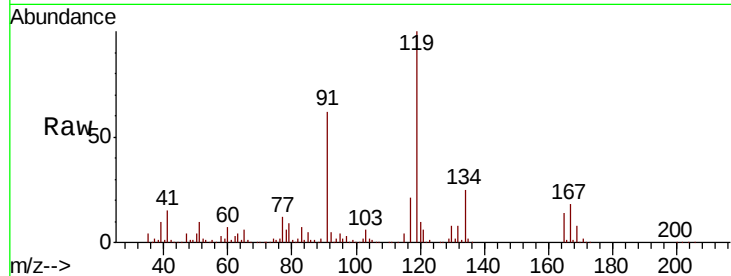
#83
tert-Butylbenzene
Concen: 51.456 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	508704		
91	62.3		30.1	90.3
134	25.3		12.6	37.8

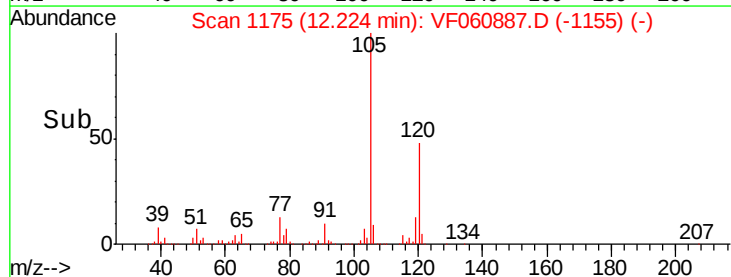
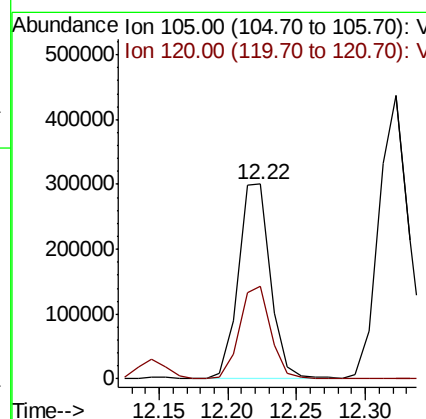
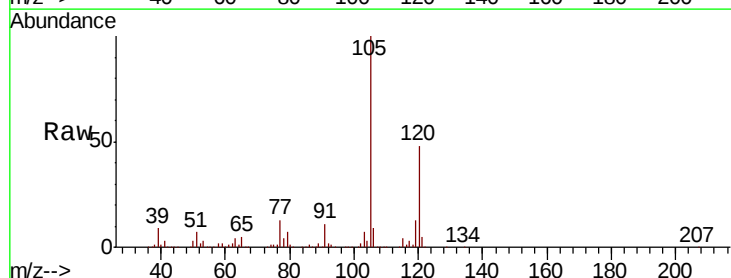
Manual Integrations
APPROVED

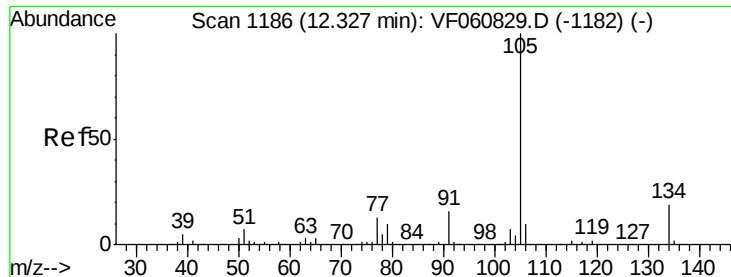
apatel
12/4/2018 2:47:13 PM



#84
1,2,4-Trimethylbenzene
Concen: 50.408 ug/l
RT: 12.22 min Scan# 1175
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	488259		
120	47.9		23.8	71.5





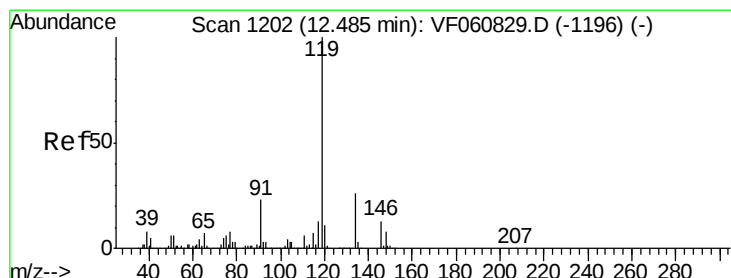
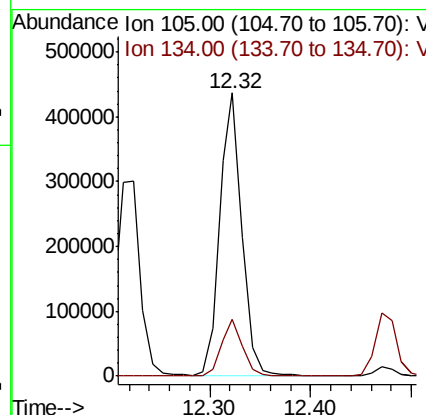
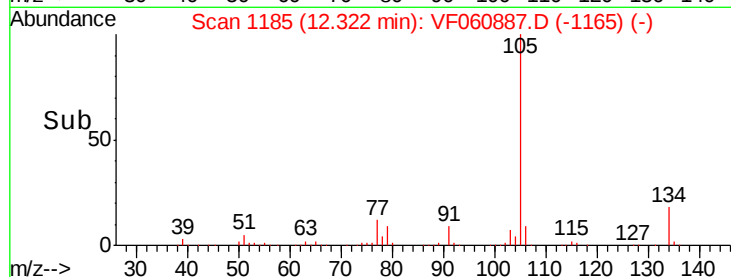
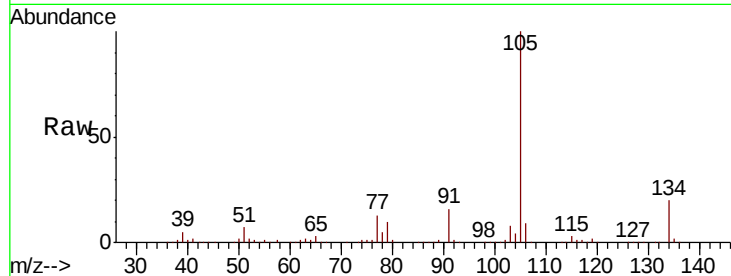
#85
 sec-Butylbenzene
 Concen: 49.074 ug/l
 RT: 12.32 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.5	28.5

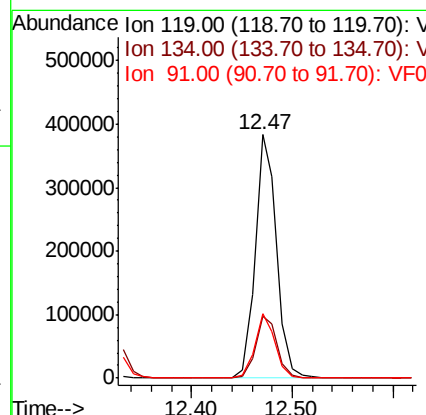
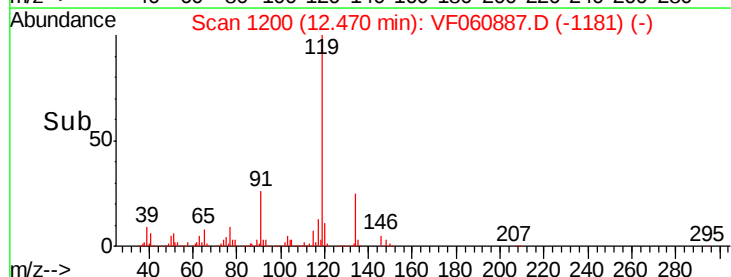
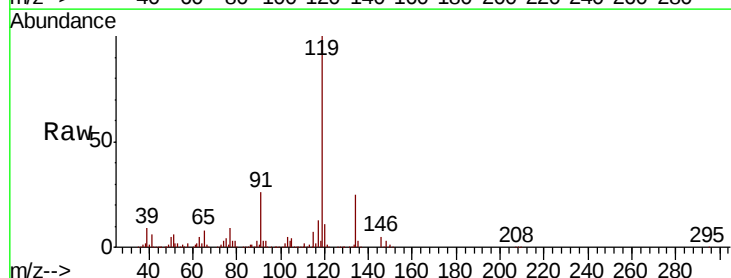
Manual Integrations
 APPROVED

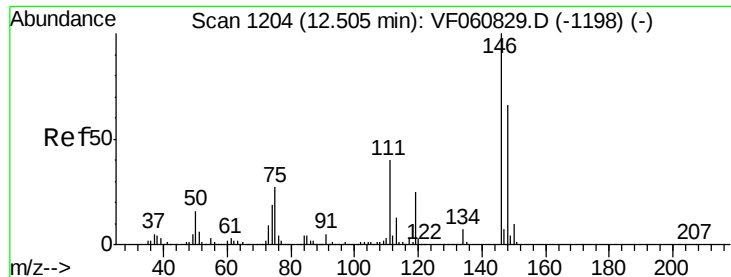
apatel
 12/4/2018 2:47:13 PM



#86
 p-Isopropyltoluene
 Concen: 49.838 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.9	38.6
91	26.5	11.8	35.3





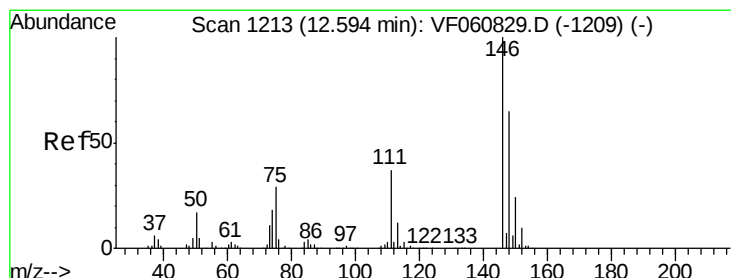
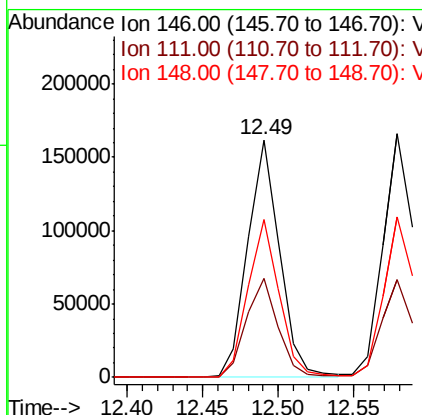
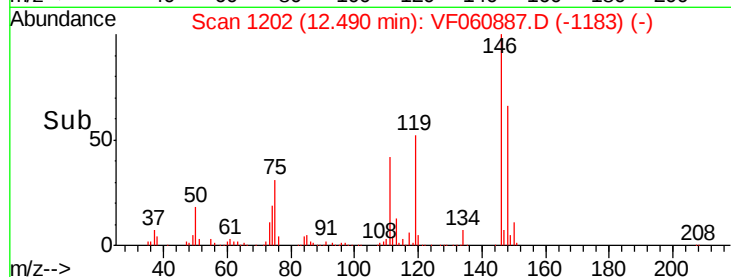
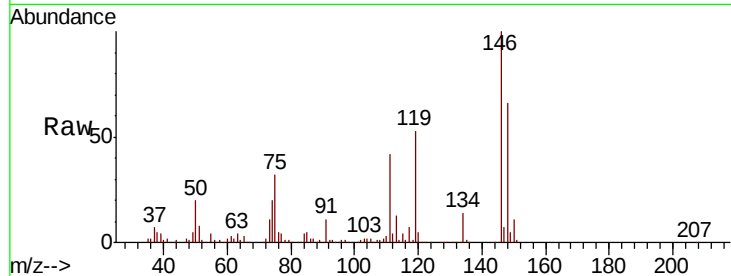
#87
 1,3-Dichlorobenzene
 Concen: 48.120 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.0	59.9
148	66.5	32.9	98.6

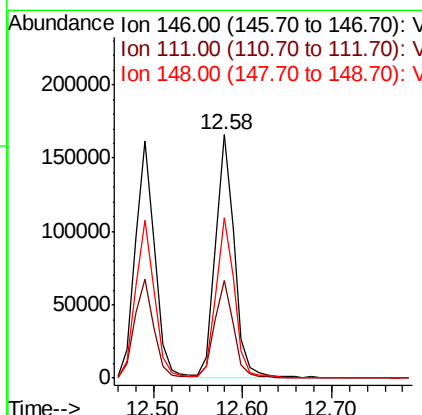
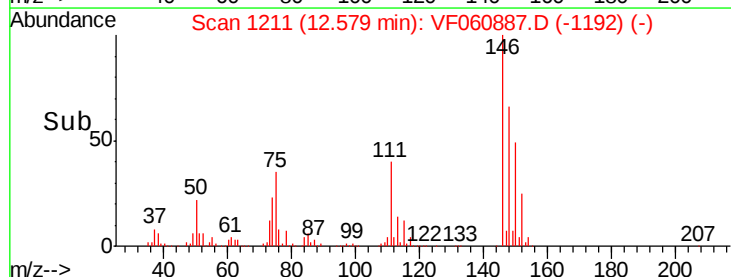
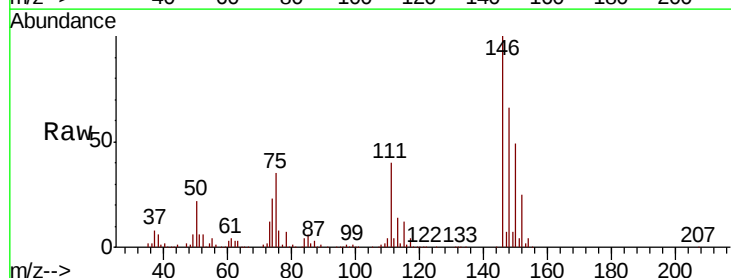
Manual Integrations
 APPROVED

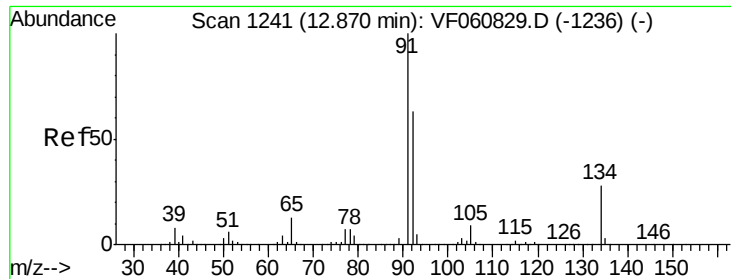
apatel
 12/4/2018 2:47:13 PM



#88
 1,4-Dichlorobenzene
 Concen: 50.835 ug/l
 RT: 12.58 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	18.9	56.7
148	66.1	32.3	96.9





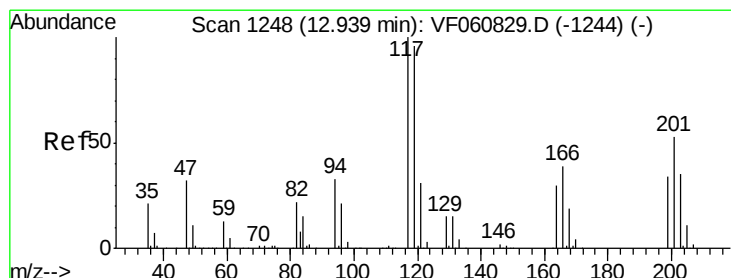
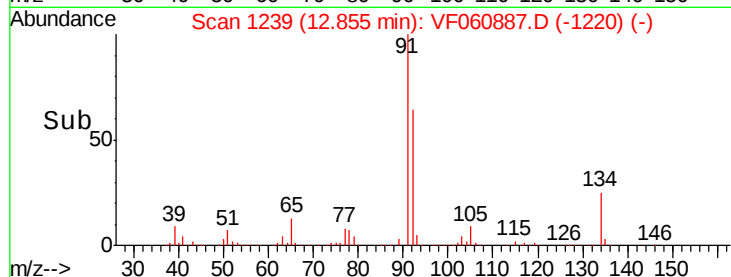
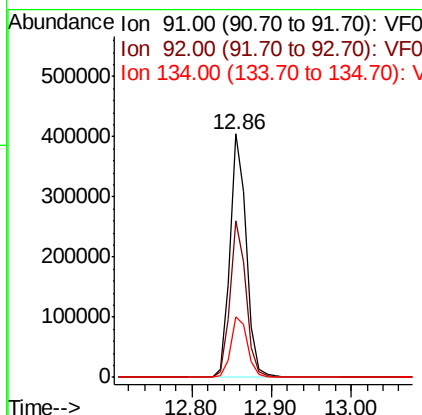
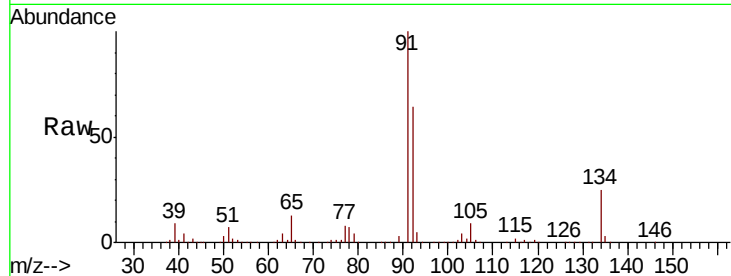
#89
n-Butylbenzene
Concen: 51.111 ug/l
RT: 12.86 min Scan# 1239
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.2	31.6	94.7
134	24.8	13.8	41.4

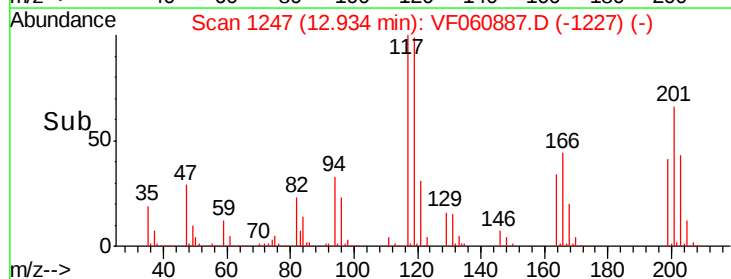
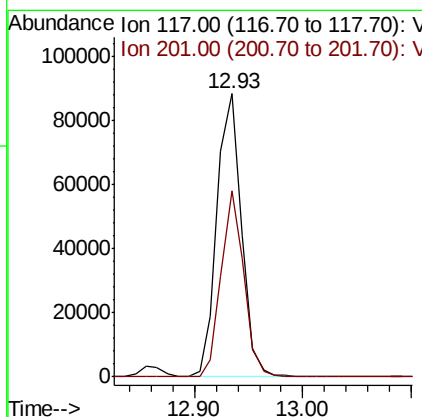
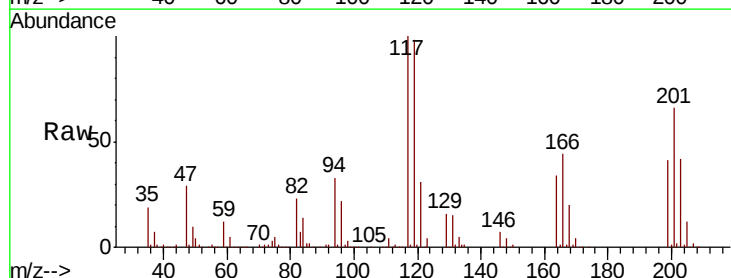
Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM



#90
Hexachloroethane
Concen: 51.096 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
117	100		
201	65.7	26.7	80.1





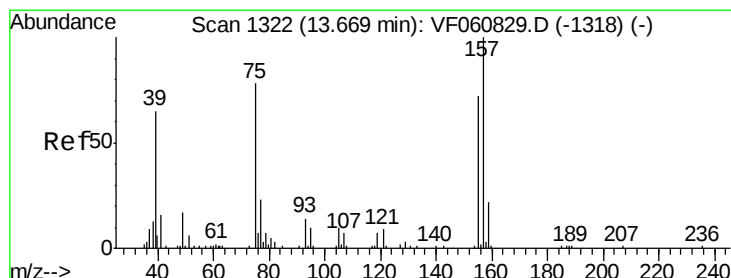
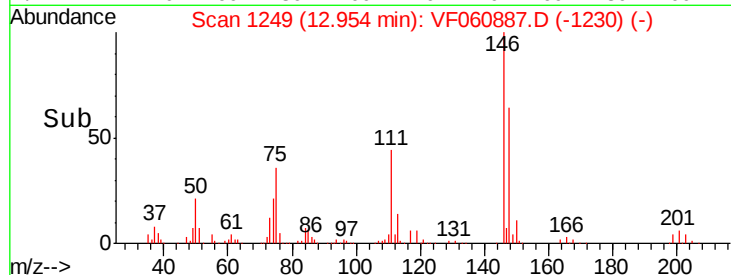
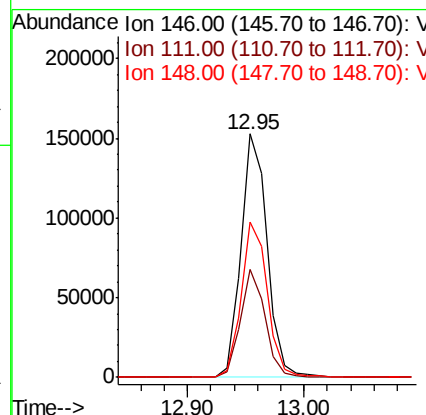
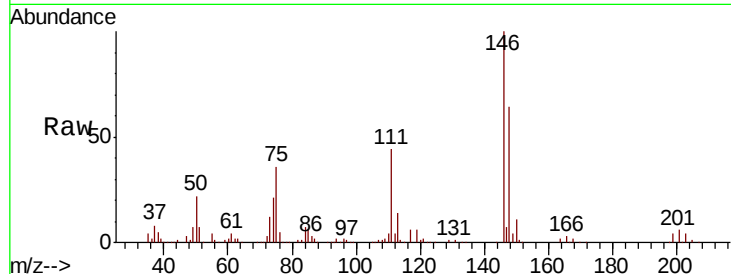
#91
 1,2-Dichlorobenzene
 Concen: 50.461 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.01 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.2	63.6
148	63.7	32.5	97.5

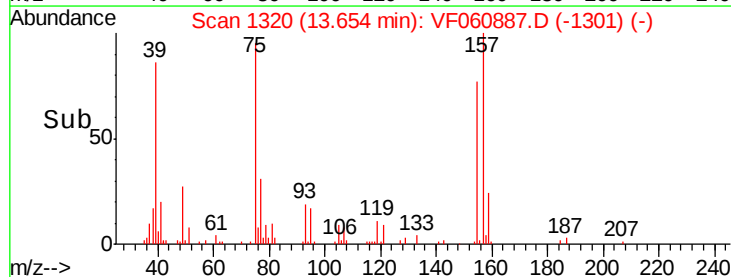
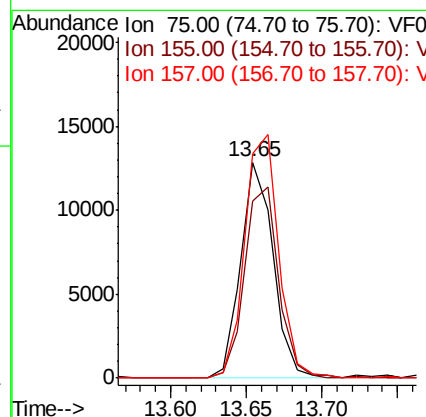
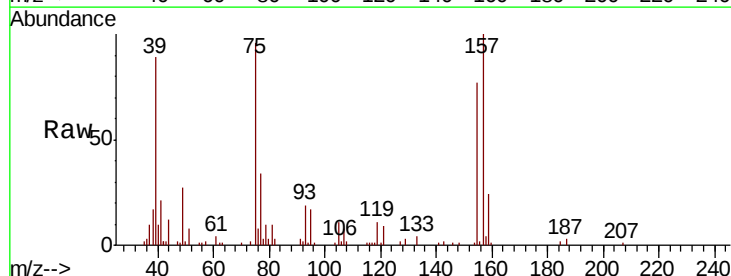
Manual Integrations
 APPROVED

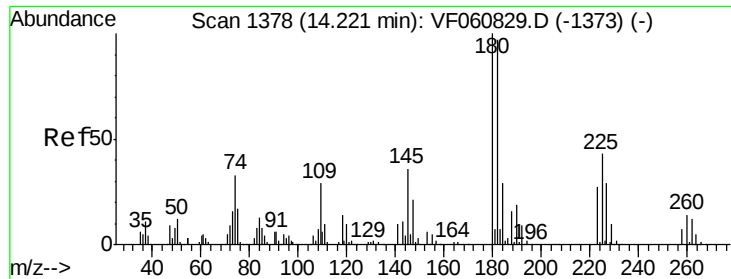
apatel
 12/4/2018 2:47:13 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.567 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.2	45.6	136.9
157	104.0	63.8	191.5





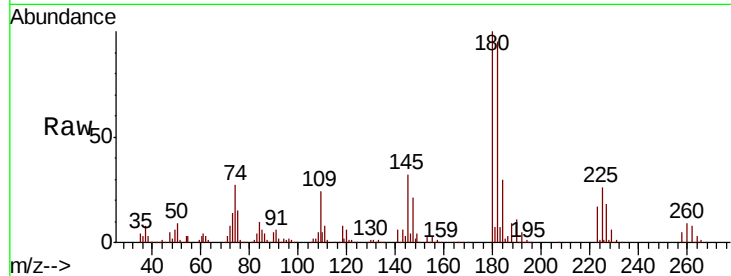
#93
 1,2,4-Trichlorobenzene
 Concen: 53.118 ug/l
 RT: 14.22 min Scan# 1377
 Delta R.T. -0.01 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	175230		
182	95.0		48.5	145.5
145	31.9		18.1	54.3

Manual Integrations
 APPROVED

apatel
 12/4/2018 2:47:13 PM

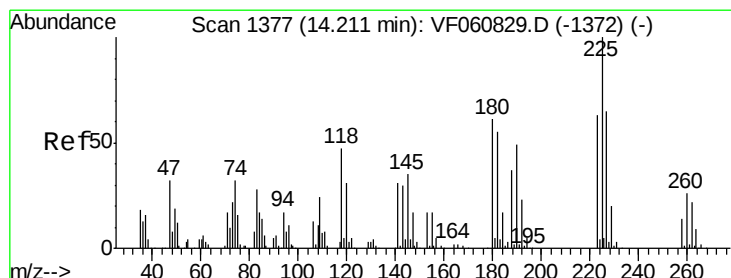
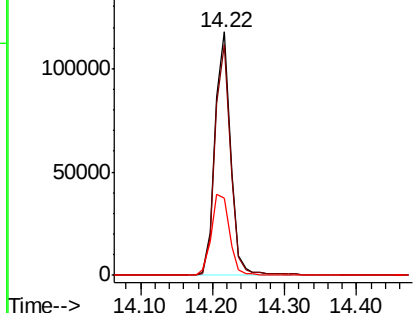
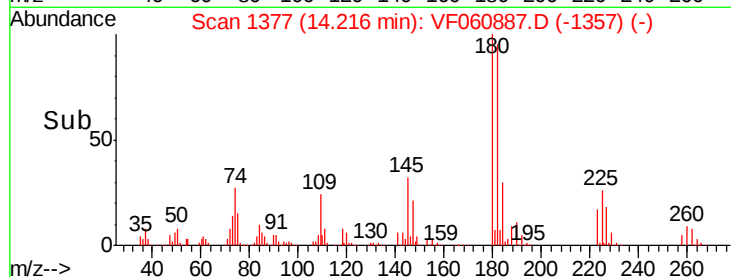


Abundance

Ion 180.00 (179.70 to 180.70): V

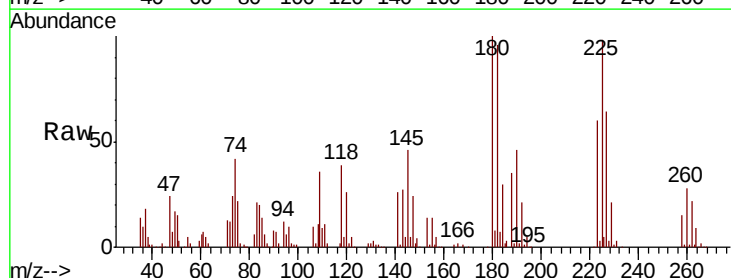
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 52.356 ug/l
 RT: 14.21 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF060887.D
 Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	115137		
223	61.3		31.4	94.3
227	65.1		32.5	97.5

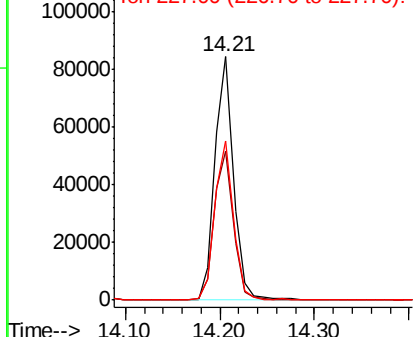
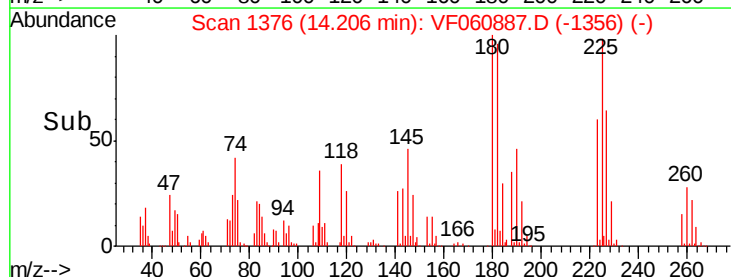


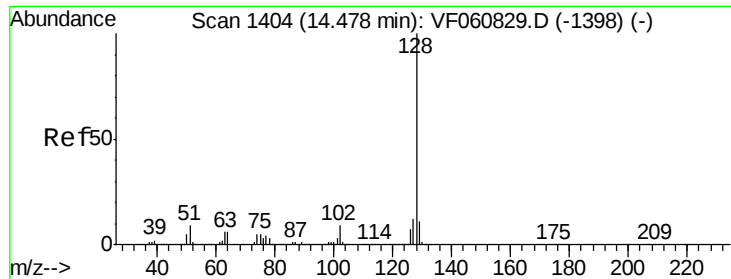
Abundance

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





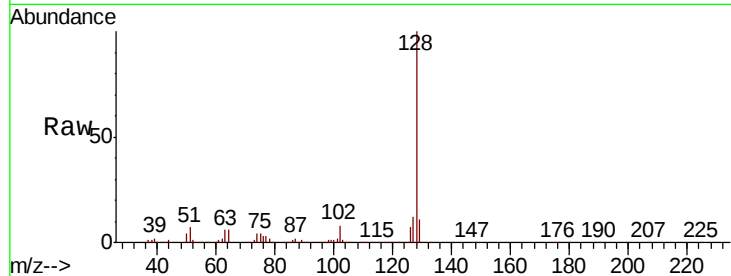
#95
Naphthalene
Concen: 51.507 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. -0.00 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	329119		
127	11.7		9.9	14.9
129	11.2		9.1	13.7

Manual Integrations
APPROVED

apatel
12/4/2018 2:47:13 PM

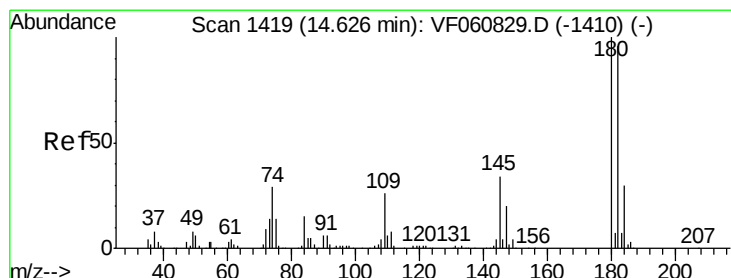
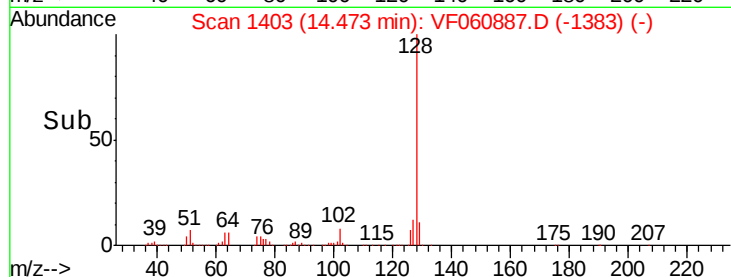
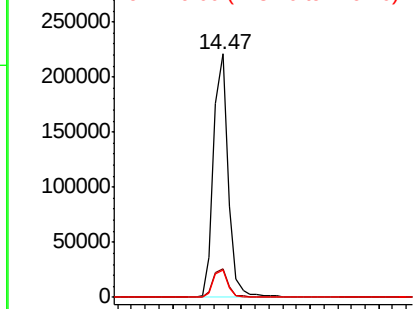


Abundance

Ion 128.00 (127.70 to 128.70): V

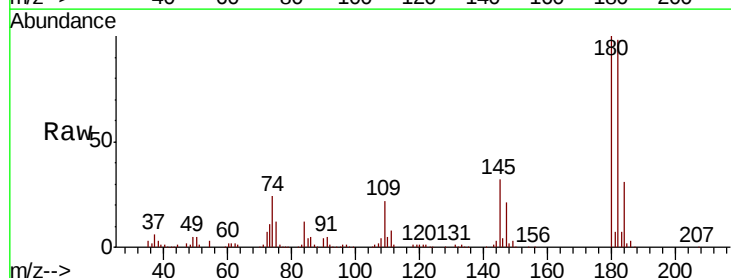
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 52.507 ug/l
RT: 14.62 min Scan# 1418
Delta R.T. -0.01 min
Lab File: VF060887.D
Acq: 3 Dec 2018 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	160834		
182	97.8		47.9	143.8
145	31.8		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

