

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081618\
 Data File : VF059969.D
 Acq On : 16 Aug 2018 19:41
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

apatel
 8/17/2018 11:23:29 AM

Quant Time: Aug 17 04:50:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081618S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 17 04:39:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	120912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	161770	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	174691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	125767	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	29425	13.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	26.72%	
35) Dibromofluoromethane	4.29	113	20315	12.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	24.72%	
50) Toluene-d8	7.71	98	40228	11.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.50%	
62) 4-Bromofluorobenzene	11.51	95	27377	13.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	27.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	22200	12.16	ug/l	94
3) Chloromethane	1.08	50	9660	12.40	ug/l	97
4) Vinyl Chloride	1.11	62	11129	12.07	ug/l	93
5) Bromomethane	1.31	94	10632	12.75	ug/l	91
6) Chloroethane	1.39	64	7836	13.44	ug/l	95
7) Trichlorofluoromethane	1.47	101	36677	14.00	ug/l	96
8) Diethyl Ether	1.71	74	4987	12.70	ug/l	75
9) 1,1,2-Trichlorotrifluoroet	1.85	101	16948	12.50	ug/l	99
10) Methyl Iodide	1.92	142	19184	9.48	ug/l	98
11) Tert butyl alcohol	2.70	59	11197	110.08	ug/l	94
12) 1,1-Dichloroethene	1.82	96	12718	13.01	ug/l	81
13) Acrolein	2.08	56	3187	60.35	ug/l	87
14) Allyl chloride	2.19	41	20038	13.75	ug/l	91
15) Acrylonitrile	3.08	53	15962	101.31	ug/l #	89
16) Acetone	2.34	43	58117	114.74	ug/l	99
17) Carbon Disulfide	1.83	76	39159	14.84	ug/l	95
18) Methyl Acetate	2.46	43	24081m	30.54	ug/l	
19) Methyl tert-butyl Ether	2.53	73	42361	14.10	ug/l	94
20) Methylene Chloride	2.28	84	16915	14.87	ug/l	89
21) trans-1,2-Dichloroethene	2.41	96	12474	12.87	ug/l	92
22) Diisopropyl ether	2.93	45	41998	12.53	ug/l	96
23) Vinyl Acetate	3.33	43	94223	58.29	ug/l	99
24) 1,1-Dichloroethane	3.00	63	29869	12.76	ug/l	99
25) 2-Butanone	4.51	43	40820	85.79	ug/l #	91
26) 2,2-Dichloropropane	3.76	77	26985	16.54	ug/l	89
27) cis-1,2-Dichloroethene	3.64	96	11238	10.81	ug/l	87
28) Bromochloromethane	3.89	49	10191	12.41	ug/l	99
29) Tetrahydrofuran	4.26	42	15323	91.70	ug/l	95
30) Chloroform	4.03	83	33393	10.82	ug/l	98
31) Cyclohexane	3.85	56	12701	11.50	ug/l #	87
32) 1,1,1-Trichloroethane	4.27	97	34045	13.04	ug/l	89
36) 1,1-Dichloropropene	4.46	75	20922	11.67	ug/l	95
37) Ethyl Acetate	4.29	43	18309	20.93	ug/l #	94
38) Carbon Tetrachloride	4.17	117	28004	9.63	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081618\
 Data File : VF059969.D
 Acq On : 16 Aug 2018 19:41
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC010

Manual Integrations
 APPROVED

apatel
 8/17/2018 11:23:29 AM

Quant Time: Aug 17 04:50:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081618S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 17 04:39:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	13773	10.59	ug/l	94
40) Benzene	4.81	78	33529	11.13	ug/l	95
41) Methacrylonitrile	4.92	41	6860	16.48	ug/l	91
42) 1,2-Dichloroethane	5.12	62	34366	13.87	ug/l	99
43) Isopropyl Acetate	7.12	43	15305	16.02	ug/l #	93
44) Trichloroethene	5.68	130	13567	11.62	ug/l	91
45) 1,2-Dichloropropane	6.40	63	9905	12.12	ug/l #	88
46) Dibromomethane	6.25	93	11037	13.33	ug/l	90
47) Bromodichloromethane	6.55	83	26978	11.61	ug/l #	92
48) Methyl methacrylate	6.88	41	9928	14.15	ug/l	96
49) 1,4-Dioxane	6.87	88	2203	388.98	ug/l #	62
51) 4-Methyl-2-Pentanone	8.41	43	80937	89.18	ug/l	99
52) Toluene	7.78	92	25472	11.29	ug/l	99
53) t-1,3-Dichloropropene	8.43	75	24505	12.70	ug/l #	89
54) cis-1,3-Dichloropropene	7.46	75	20977	11.49	ug/l	86
55) 1,1,2-Trichloroethane	8.64	97	12639	15.49	ug/l	91
56) Ethyl methacrylate	8.76	69	12007	13.16	ug/l	96
57) 1,3-Dichloropropane	9.00	76	20824	13.93	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.78	63	6343	57.05	ug/l	100
59) 2-Hexanone	9.63	43	65167	95.52	ug/l	93
60) Dibromochloromethane	8.87	129	20402	12.88	ug/l	92
61) 1,2-Dibromoethane	9.14	107	15127	14.65	ug/l	95
64) Tetrachloroethene	8.31	164	14637	10.79	ug/l	93
65) Chlorobenzene	9.95	112	37694	11.18	ug/l	90
66) 1,1,1,2-Tetrachloroethane	10.07	131	17969	11.05	ug/l	94
67) Ethyl Benzene	10.05	91	69831	11.70	ug/l	98
68) m/p-Xylenes	10.27	106	46237	22.98	ug/l	94
69) o-Xylene	10.83	106	23884	10.95	ug/l	94
70) Styrene	10.90	104	38102	11.64	ug/l	96
71) Bromoform	10.89	173	13973	13.02	ug/l	94
73) Isopropylbenzene	11.23	105	74602	9.59	ug/l	95
74) N-amyl acetate	11.46	43	25061	13.30	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.79	83	18842	13.38	ug/l	98
76) 1,2,3-Trichloropropane	11.89	75	16796	13.76	ug/l	98
77) Bromobenzene	11.59	156	21797	10.50	ug/l	91
78) n-propylbenzene	11.69	91	97136	10.60	ug/l	99
79) 2-Chlorotoluene	11.82	91	58996	10.24	ug/l	91
80) 1,3,5-Trimethylbenzene	11.92	105	70973	9.79	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.96	75	6322m	12.38	ug/l	
82) 4-Chlorotoluene	11.99	91	65665	10.30	ug/l	91
83) tert-Butylbenzene	12.21	119	67629	9.53	ug/l	99
84) 1,2,4-Trimethylbenzene	12.29	105	76881	10.55	ug/l	99
85) sec-Butylbenzene	12.39	105	89081	9.87	ug/l	98
86) p-Isopropyltoluene	12.54	119	79652	9.98	ug/l	97
87) 1,3-Dichlorobenzene	12.56	146	42780	10.92	ug/l	97
88) 1,4-Dichlorobenzene	12.65	146	42190	10.97	ug/l	97
89) n-Butylbenzene	12.92	91	76270	9.88	ug/l	99
90) Hexachloroethane	12.99	117	17659	9.02	ug/l	86
91) 1,2-Dichlorobenzene	13.02	146	42529	11.07	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.72	75	6455	16.26	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081618\
Data File : VF059969.D
Acq On : 16 Aug 2018 19:41
Operator : VA/AP
Sample : VSTDICC010
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM

Quant Time: Aug 17 04:50:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081618S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 17 04:39:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	34915	11.45	ug/l	90
94) Hexachlorobutadiene	14.25	225	21641	10.11	ug/l	98
95) Naphthalene	14.53	128	51642	10.09	ug/l	97
96) 1,2,3-Trichlorobenzene	14.67	180	34462	11.75	ug/l	94

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

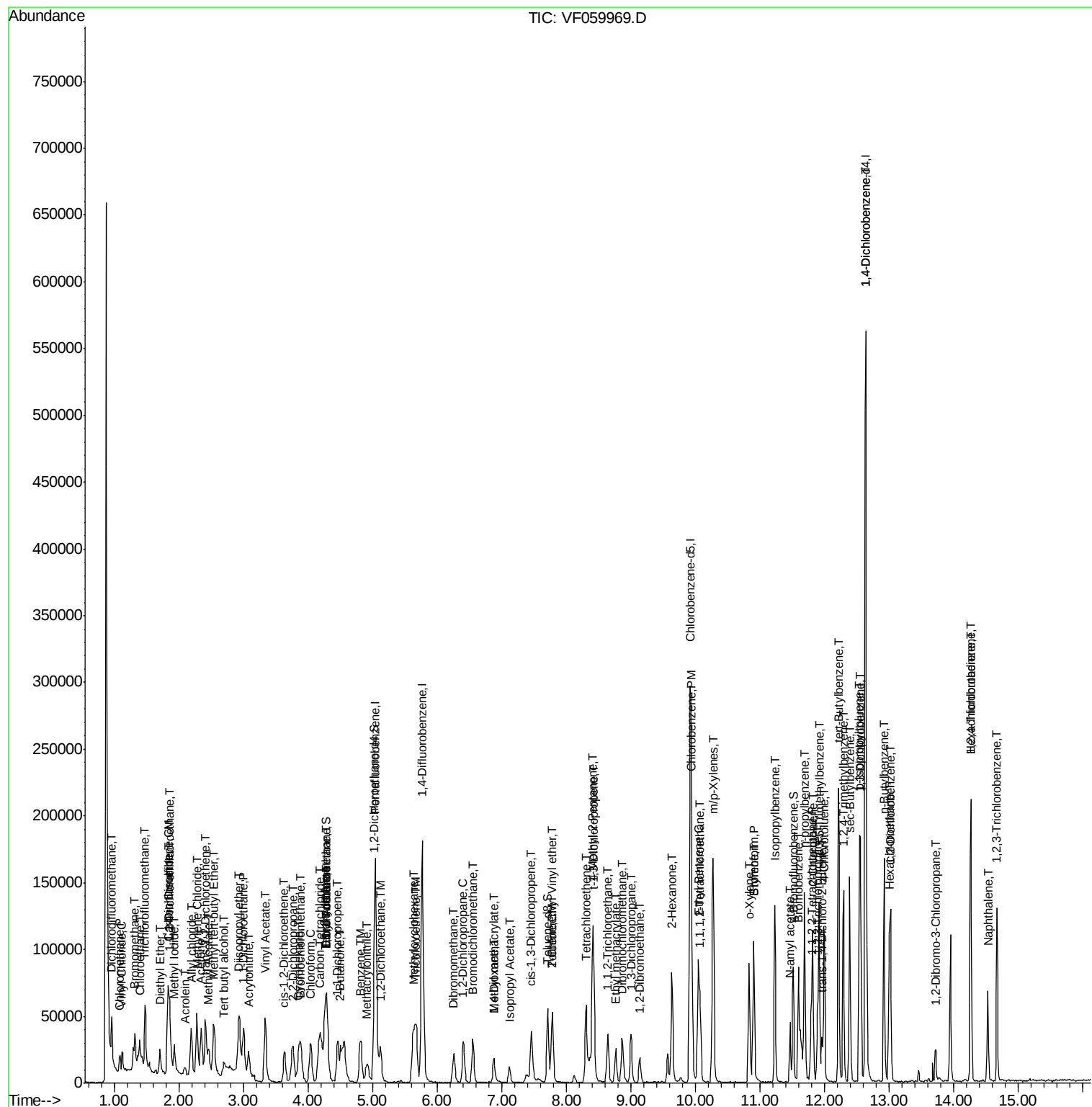
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF081618\
Data File : VF059969.D
Acq On : 16 Aug 2018 19:41
Operator : VA/AP
Sample : VSTDIC010
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 33 Sample Multiplier: 1

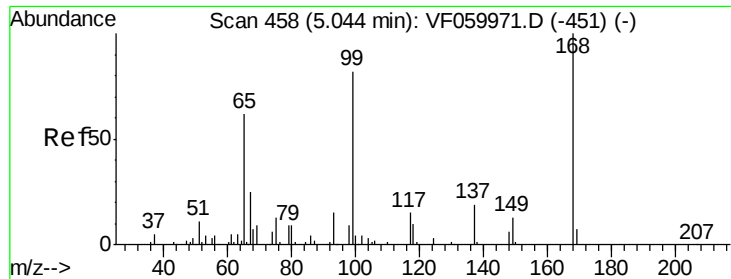
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM

Quant Time: Aug 17 04:50:46 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F081618S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 17 04:39:04 2018
Response via : Initial Calibration





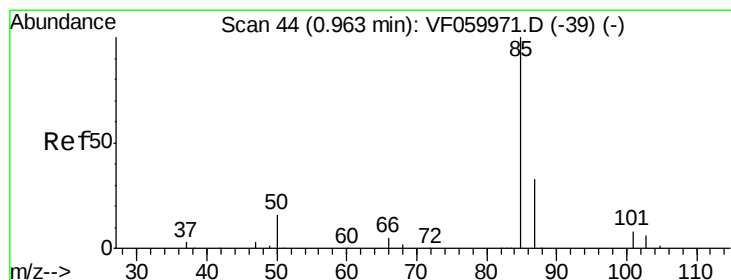
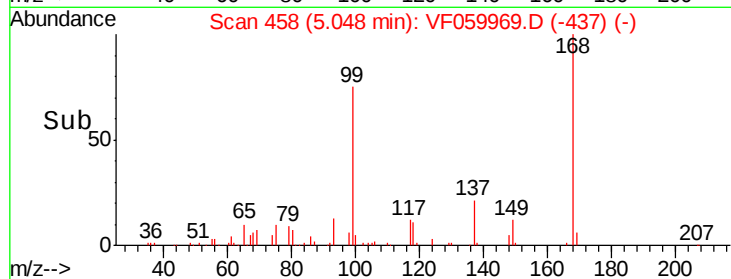
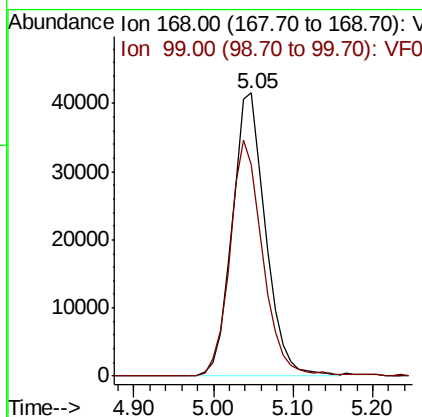
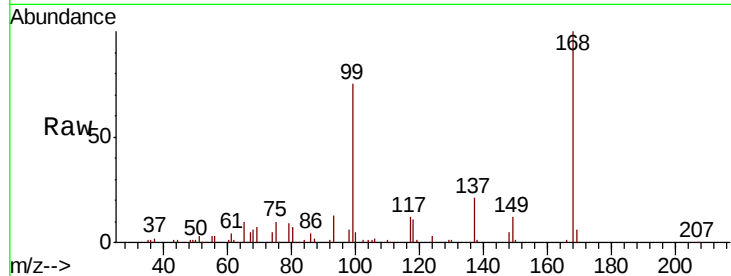
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.05 min Scan# 458
Delta R.T. 0.00 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
168	100		
99	74.9	65.7	98.5

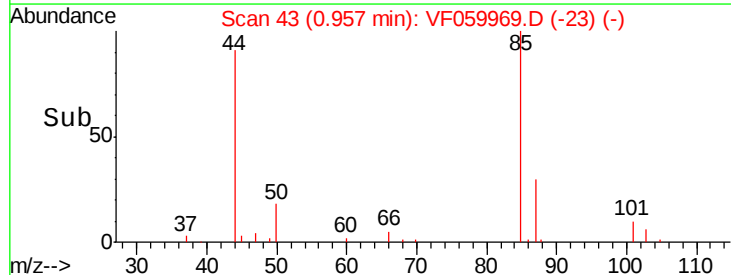
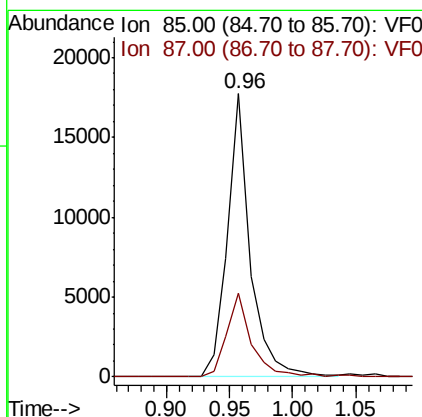
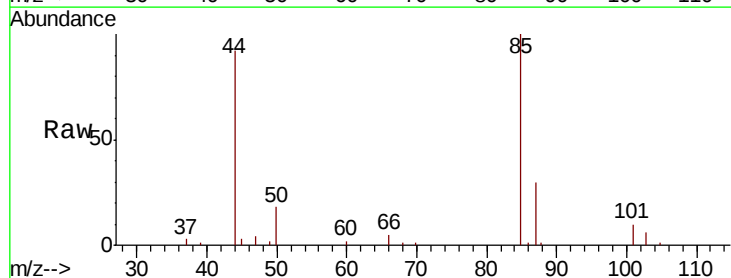
Manual Integrations
APPROVED

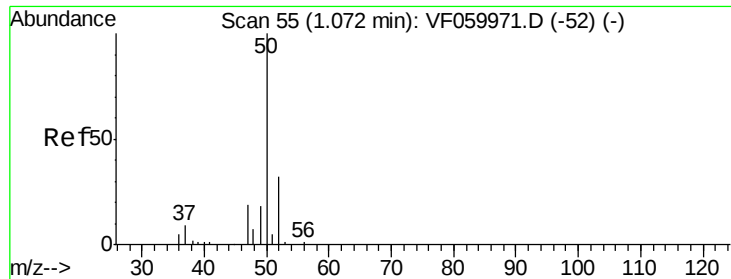
apatel
8/17/2018 11:23:29 AM



#2
Dichlorodifluoromethane
Concen: 12.16 ug/l
RT: 0.96 min Scan# 43
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
85	100		
87	29.6	16.4	49.4





#3

Chloromethane

Concen: 12.40 ug/l

RT: 1.08 min Scan# 55

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 50 Resp: 9660

Ion Ratio Lower Upper

50 100

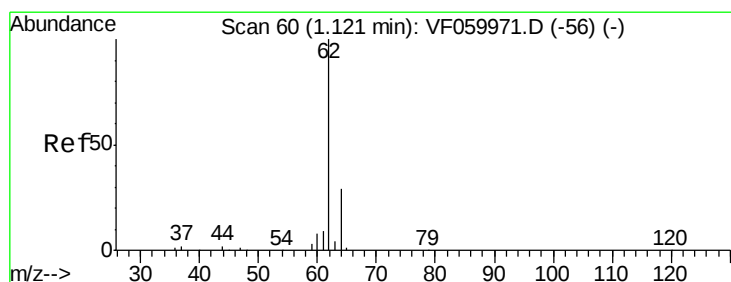
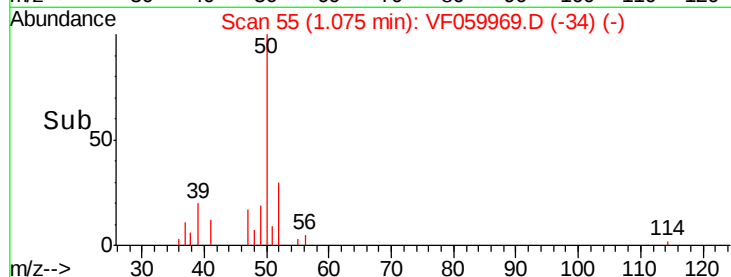
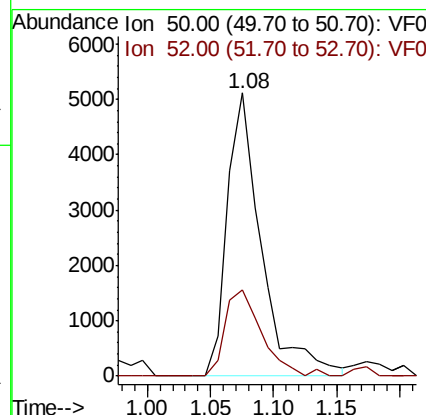
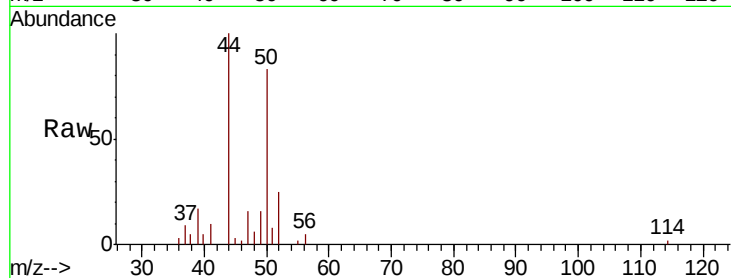
52 30.5 25.7 38.5

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#4

Vinyl Chloride

Concen: 12.07 ug/l

RT: 1.11 min Scan# 59

Delta R.T. -0.01 min

Lab File: VF059969.D

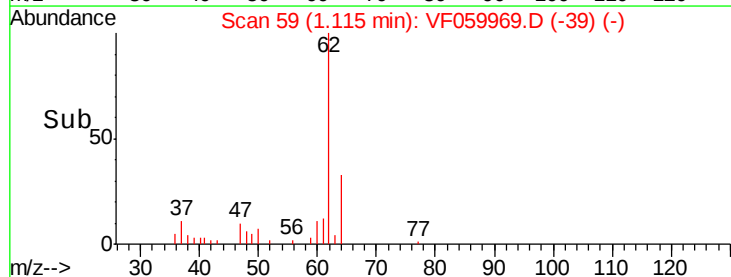
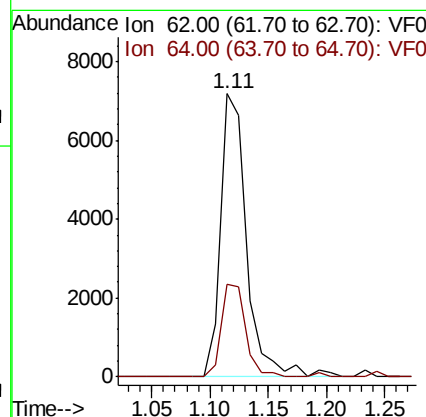
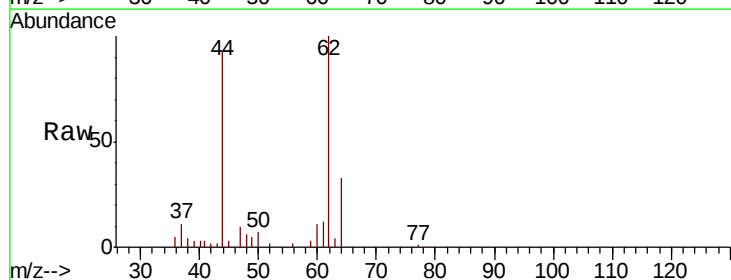
Acq: 16 Aug 2018 19:41

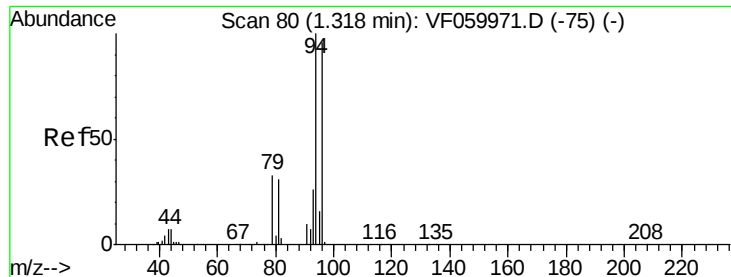
Tgt Ion: 62 Resp: 11129

Ion Ratio Lower Upper

62 100

64 32.7 23.1 34.7





#5

Bromomethane

Concen: 12.75 ug/l

RT: 1.31 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 94 Resp: 10632

Ion Ratio Lower Upper

94 100

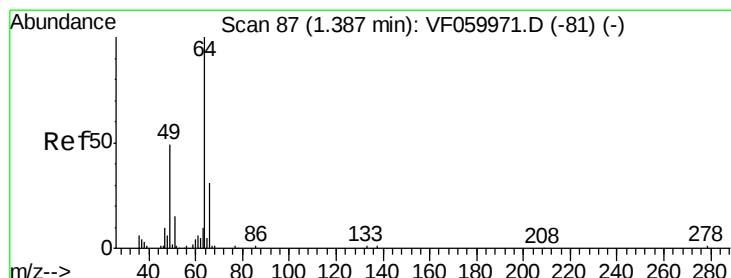
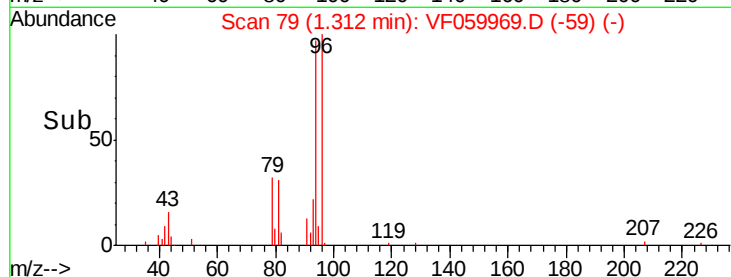
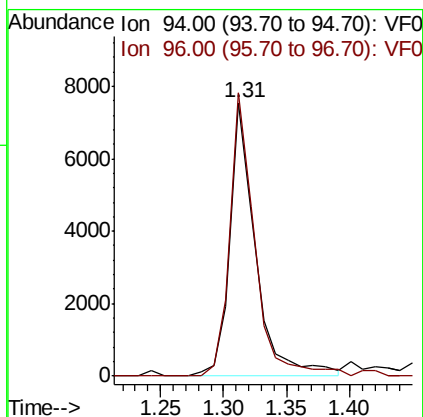
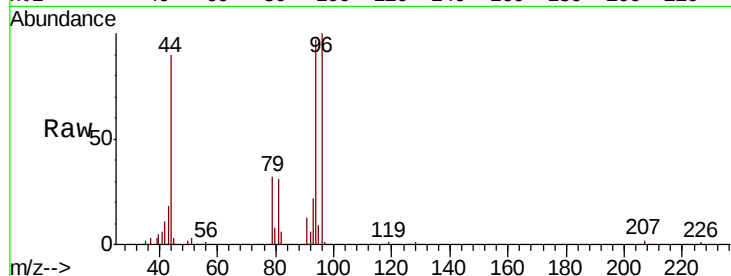
96 104.9 76.7 115.1

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#6

Chloroethane

Concen: 13.44 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF059969.D

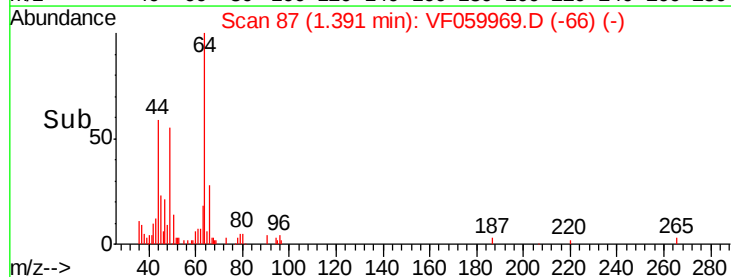
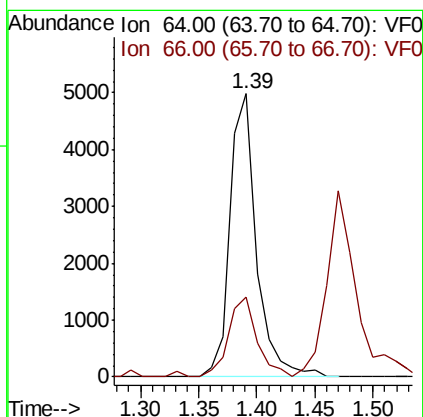
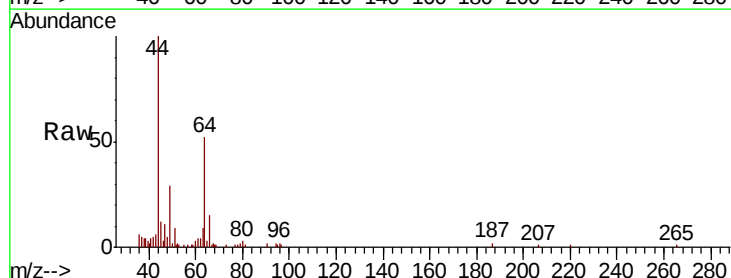
Acq: 16 Aug 2018 19:41

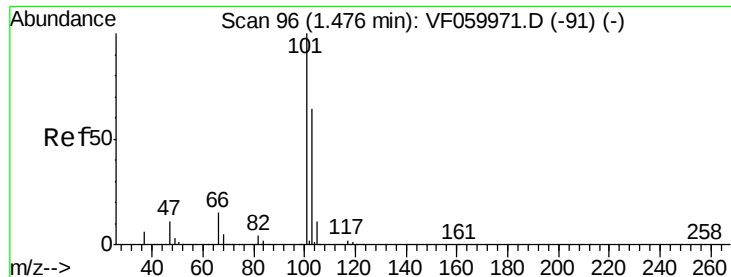
Tgt Ion: 64 Resp: 7836

Ion Ratio Lower Upper

64 100

66 28.4 25.0 37.4





#7

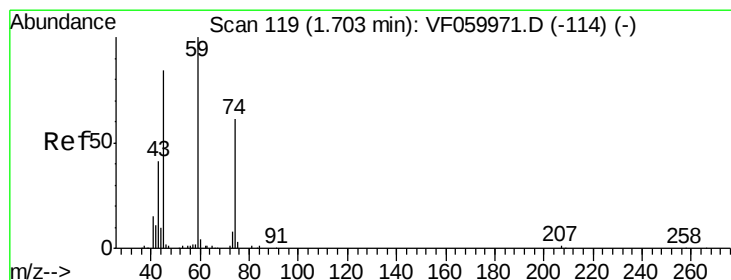
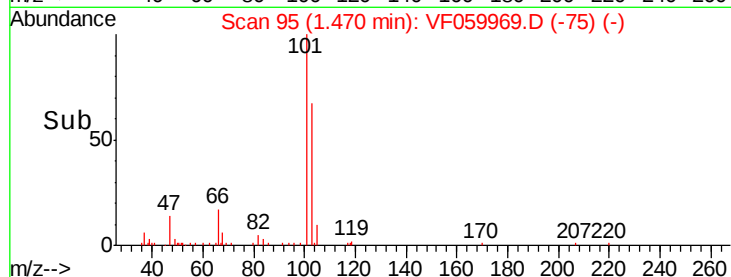
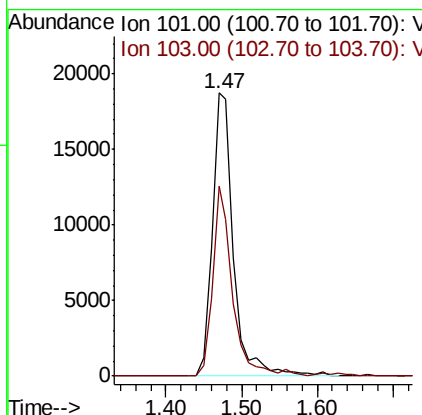
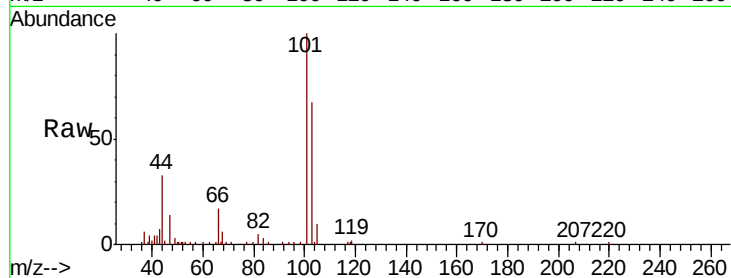
Trichlorofluoromethane
 Concen: 14.00 ug/l
 RT: 1.47 min Scan# 95
 Delta R.T. -0.01 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.1	50.9	76.3

Manual Integrations
 APPROVED

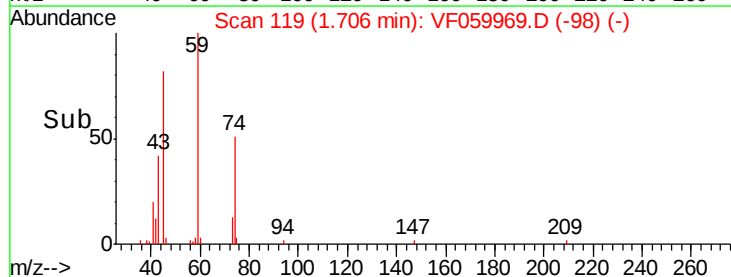
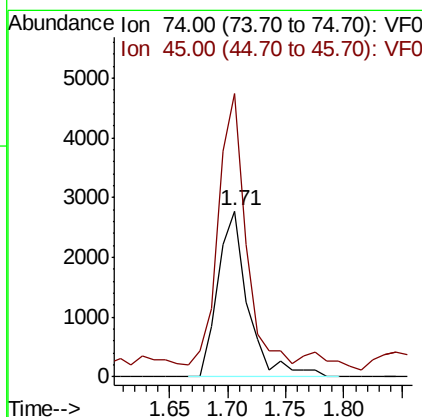
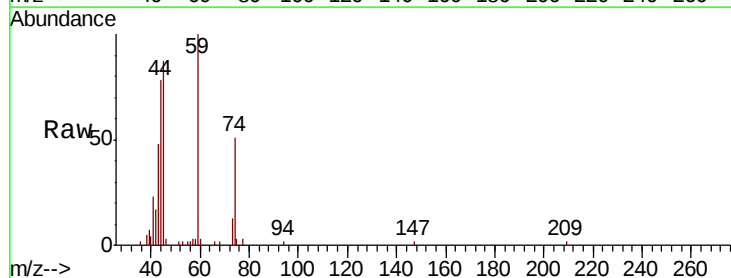
apatel
 8/17/2018 11:23:29 AM

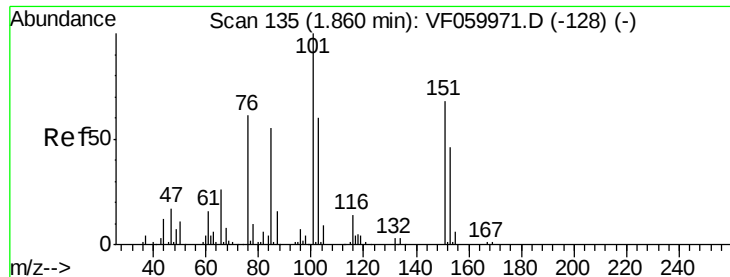


#8

Diethyl Ether
 Concen: 12.70 ug/l
 RT: 1.71 min Scan# 119
 Delta R.T. 0.00 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
74	100		
45	170.4	69.8	209.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 12.50 ug/l

RT: 1.85 min Scan# 134

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

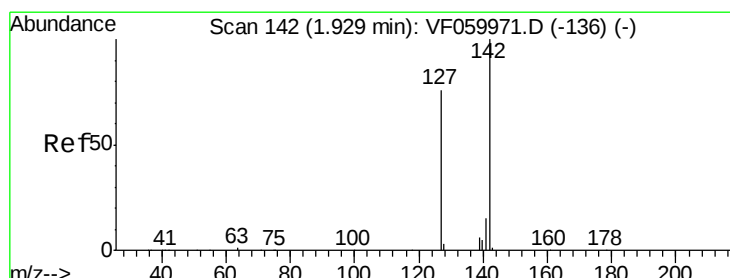
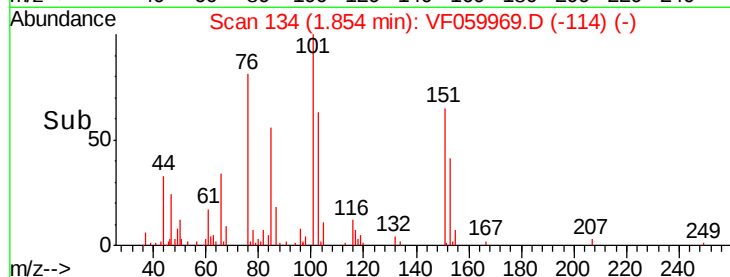
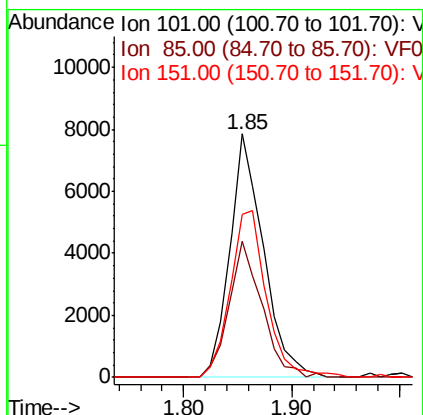
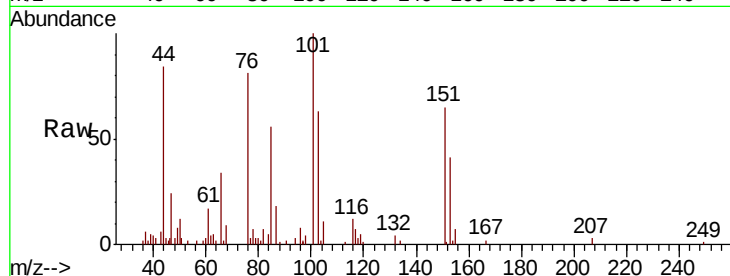
ClientSampleId :

VSTDIC010

Tot Ion:	101	Resp:	16948
Ion Ratio	Lower	Upper	
101	100		
85	55.8	44.2	66.4
151	66.8	54.5	81.7

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#10

Methyl Iodide

Concen: 9.48 ug/l

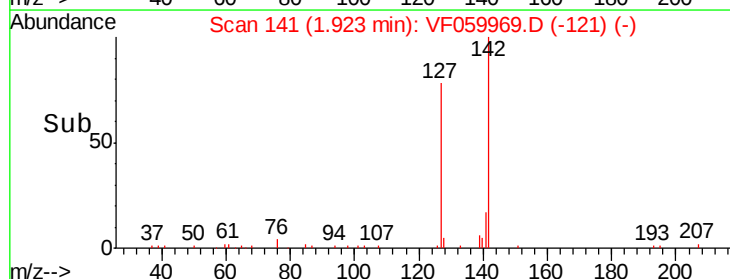
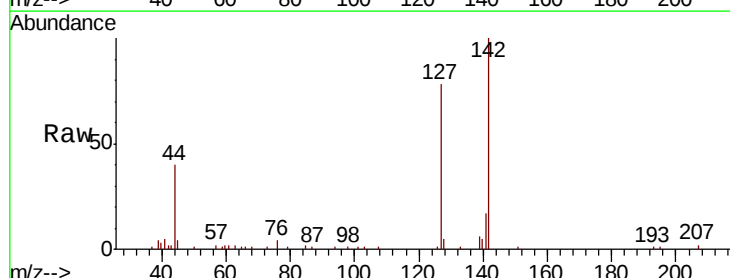
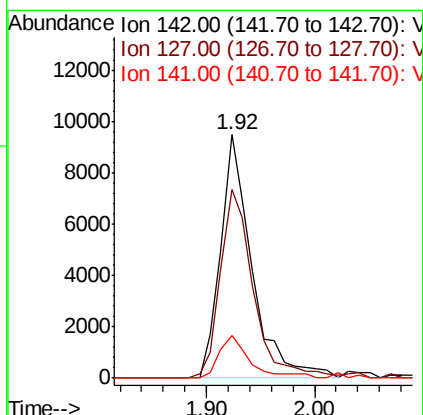
RT: 1.92 min Scan# 141

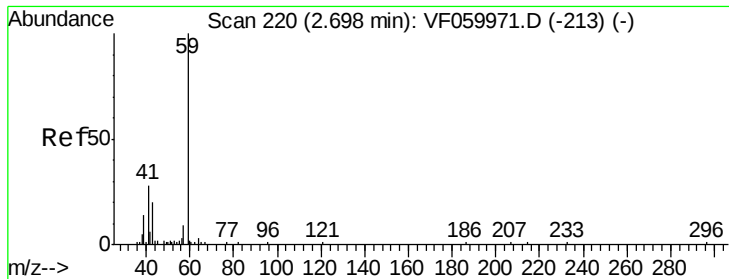
Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion:	142	Resp:	19184
Ion Ratio	Lower	Upper	
142	100		
127	77.6	61.0	91.6
141	17.3	12.1	18.1





#11

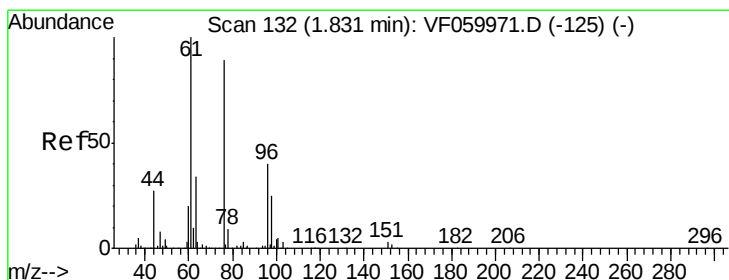
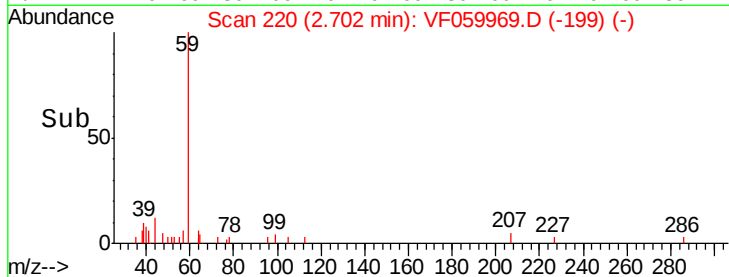
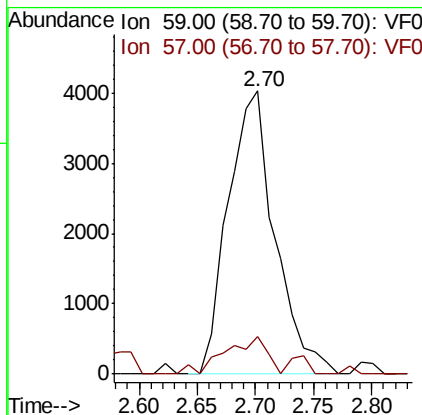
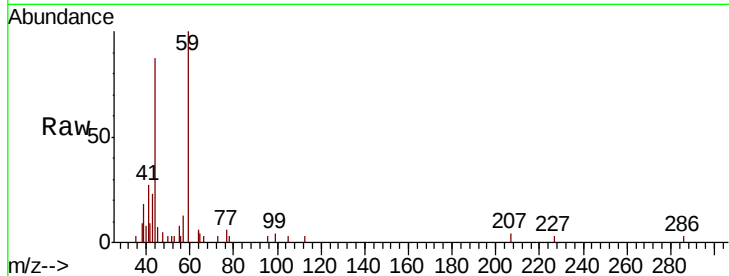
Tert butyl alcohol
Concen: 110.08 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.00 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.2	8.8	13.2

Manual Integrations
APPROVED

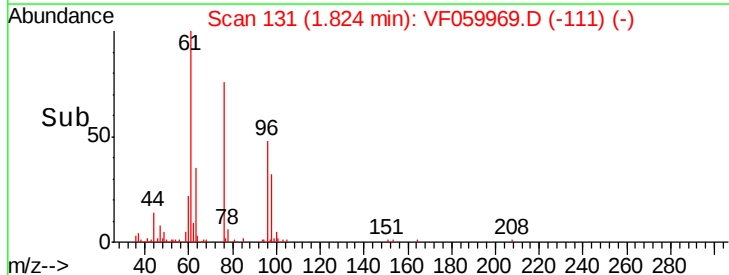
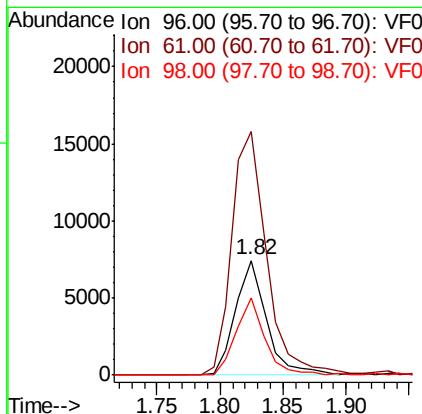
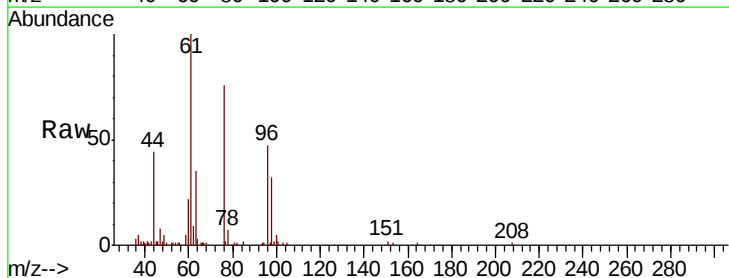
apatel
8/17/2018 11:23:29 AM

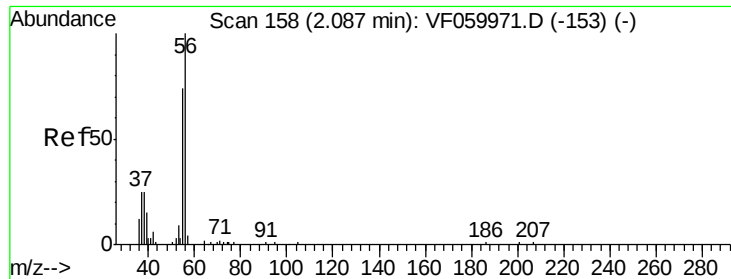


#12

1,1-Dichloroethene
Concen: 13.01 ug/l
RT: 1.82 min Scan# 131
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	211.9	200.0	300.0
98	67.3	49.8	74.8





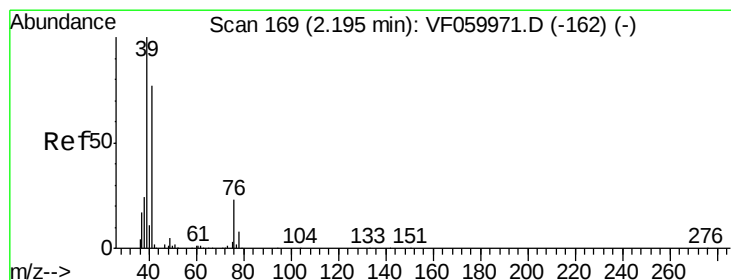
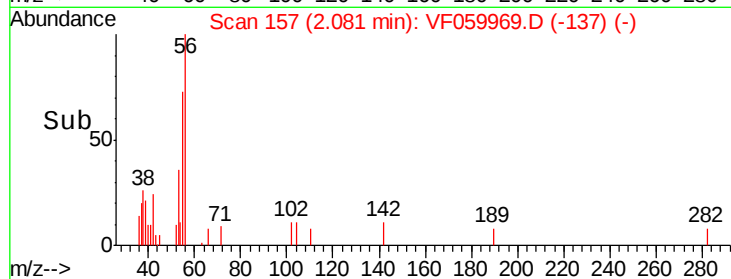
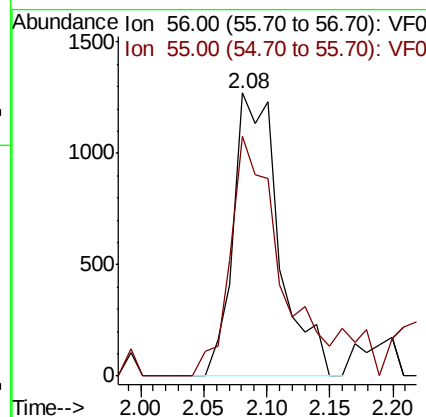
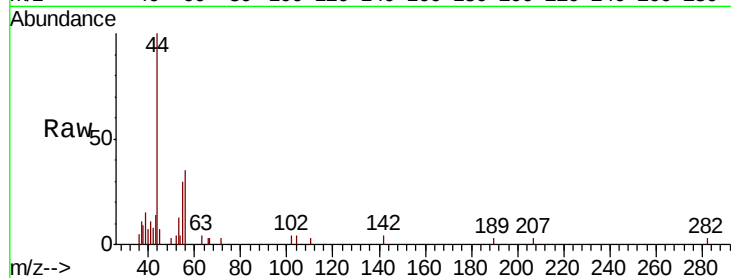
#13
Acrolein
Concen: 60.35 ug/l
RT: 2.08 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
56	100		
55	84.9	59.2	88.8

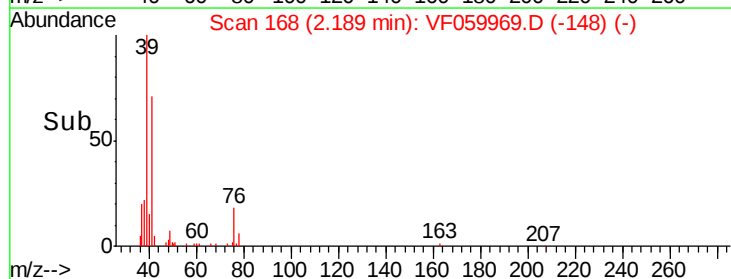
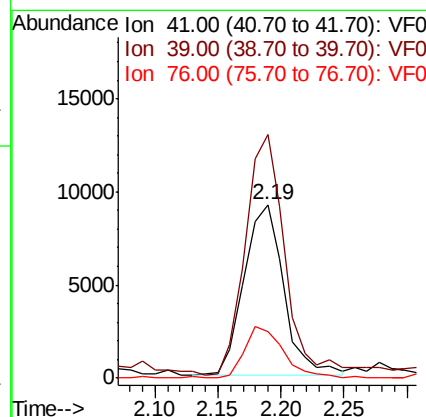
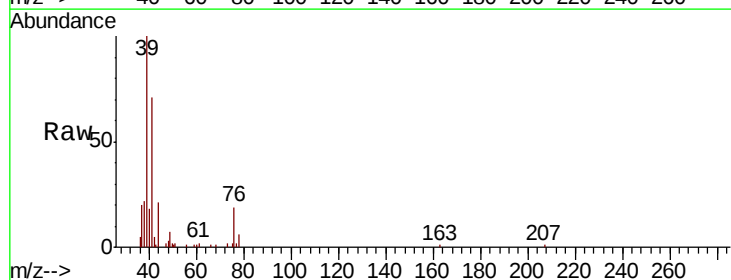
Manual Integrations
APPROVED

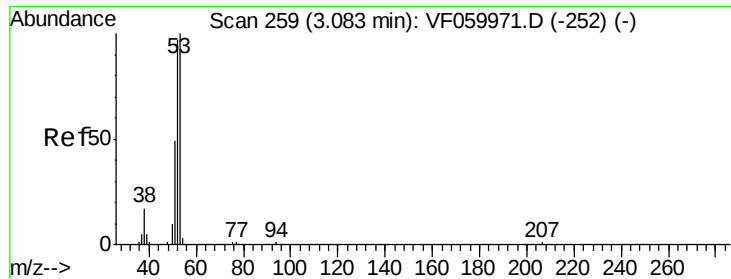
apatel
8/17/2018 11:23:29 AM



#14
Allyl chloride
Concen: 13.75 ug/l
RT: 2.19 min Scan# 168
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
41	100		
39	140.6	103.6	155.4
76	26.5	23.5	35.3





#15

Acrylonitrile

Concen: 101.31 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

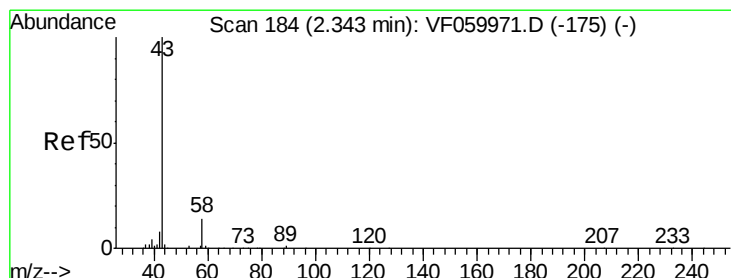
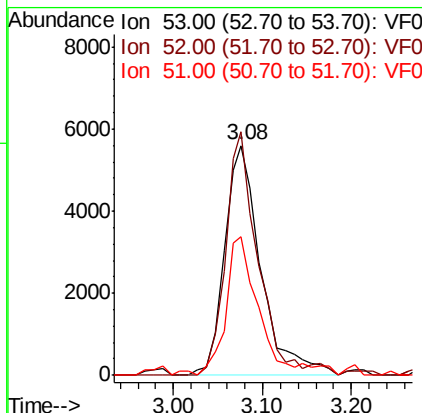
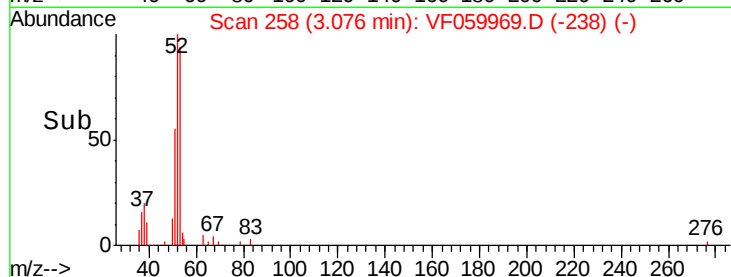
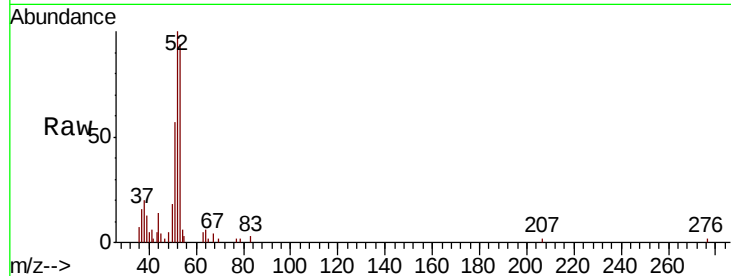
ClientSampleId :

VSTDIC010

Tot Ion:	53	Resp:	15962
Ion	Ratio	Lower	Upper
53	100		
52	106.0	77.6	116.4
51	60.2	40.2	60.2#

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#16

Acetone

Concen: 114.74 ug/l

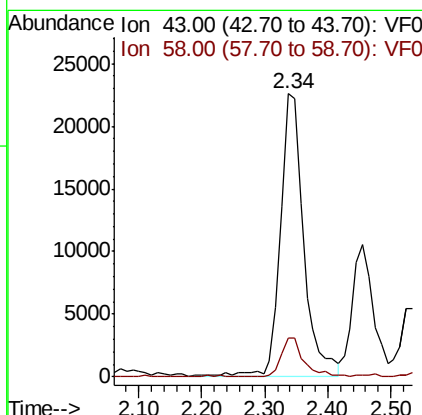
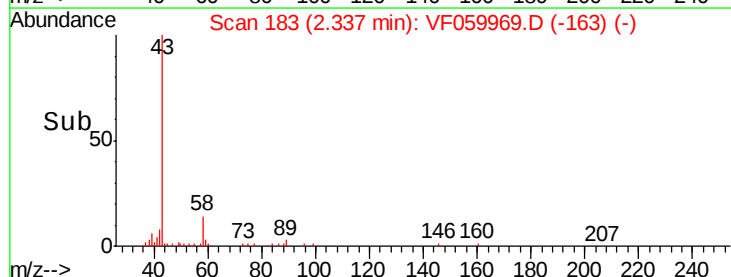
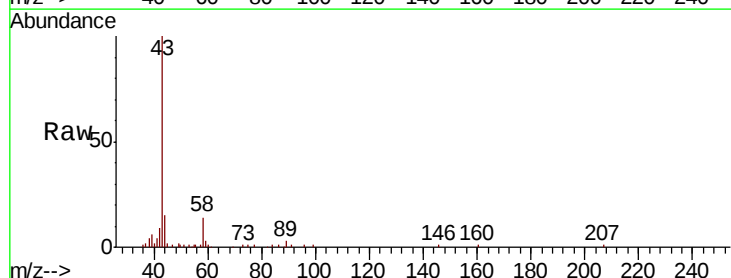
RT: 2.34 min Scan# 183

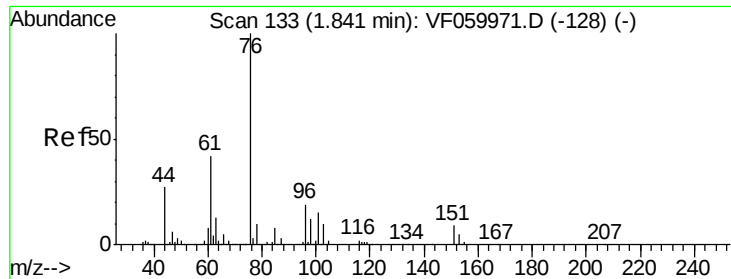
Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion:	43	Resp:	58117
Ion	Ratio	Lower	Upper
43	100		
58	13.5	11.1	16.7





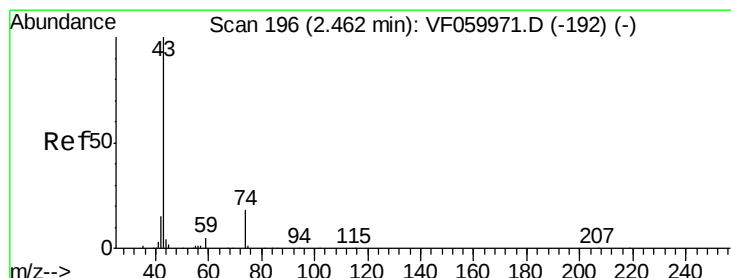
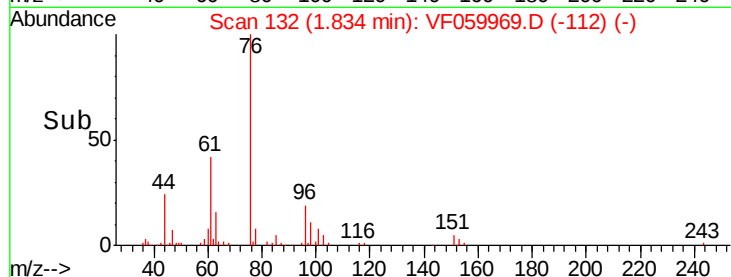
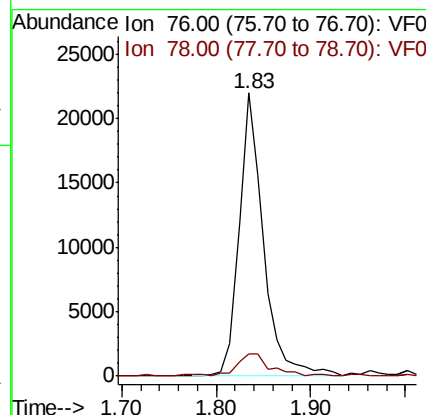
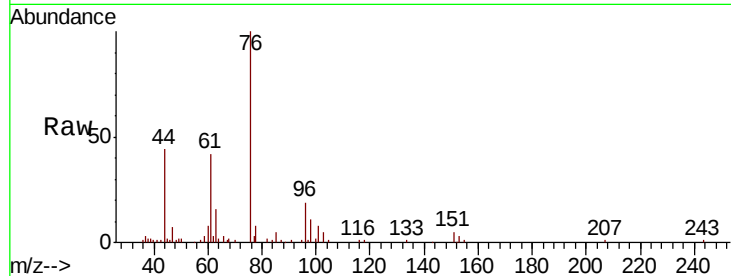
#17
Carbon Disulfide
Concen: 14.84 ug/l
RT: 1.83 min Scan# 132
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.0	8.0	12.0

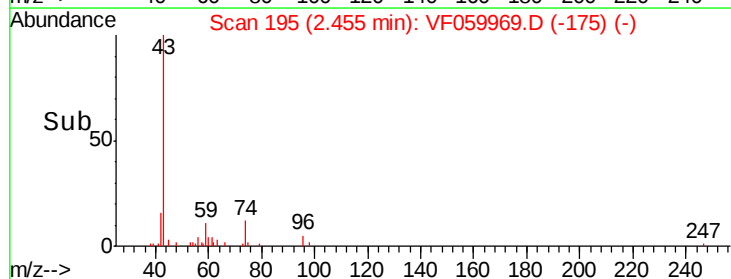
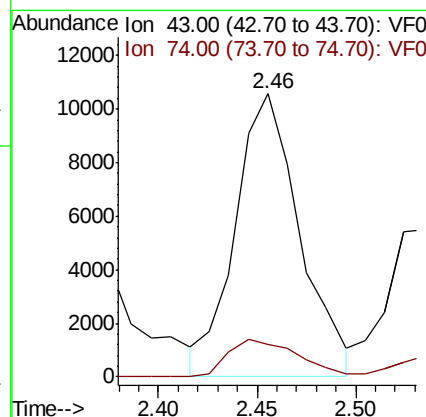
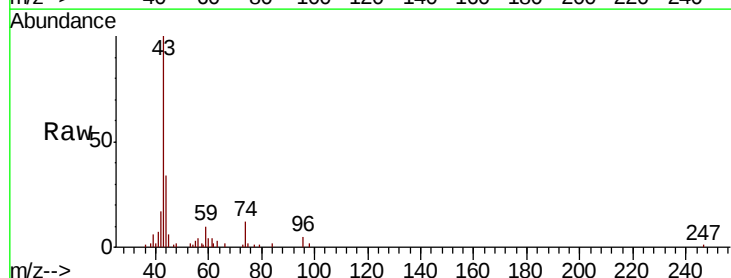
Manual Integrations
APPROVED

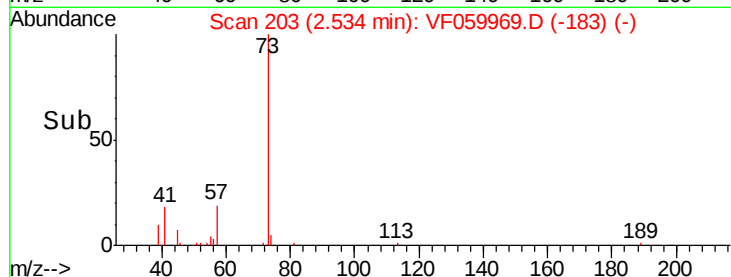
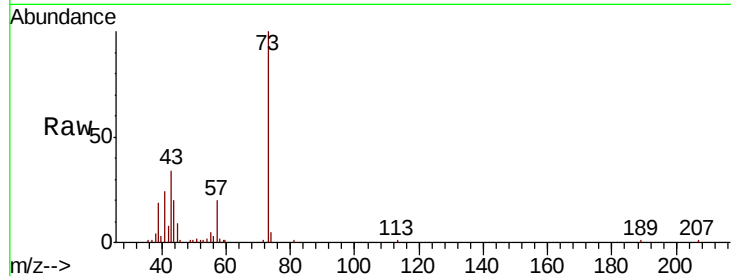
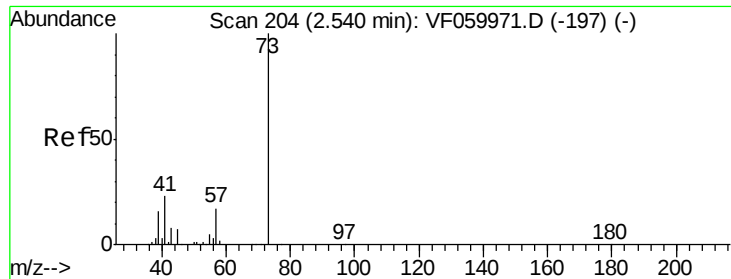
apatel
8/17/2018 11:23:29 AM



#18
Methyl Acetate
Concen: 30.54 ug/l m
RT: 2.46 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
43	100		
74	11.7	13.2	19.8#





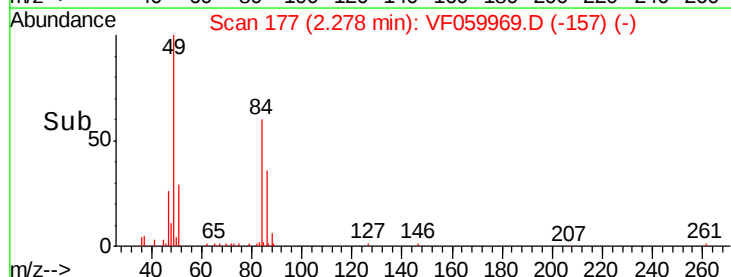
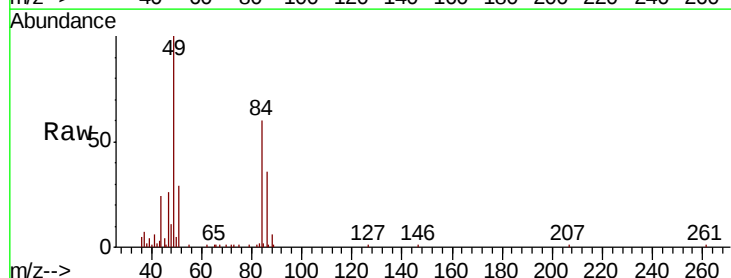
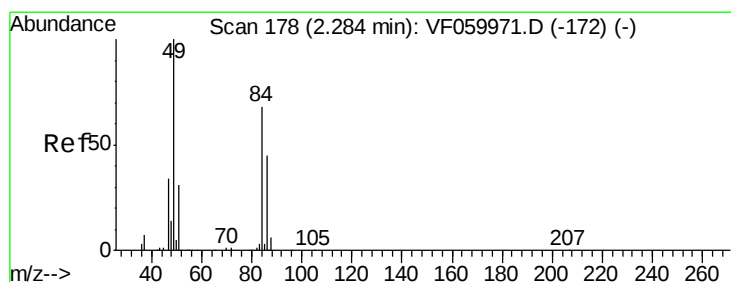
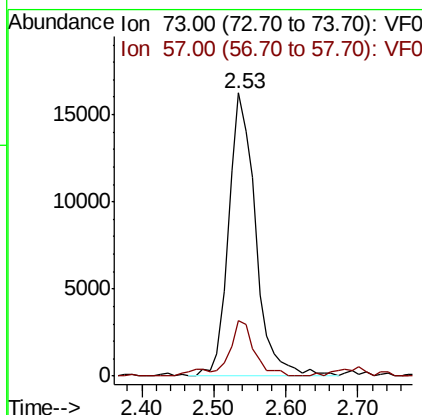
#19
Methvl tert-butvl Ether
Concen: 14.10 ug/l
RT: 2.53 min Scan# 203
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tot Ion	73	Resp	42361
Ion Ratio	100	Lower	Upper
73	100	13.7	20.5
57	19.6		

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

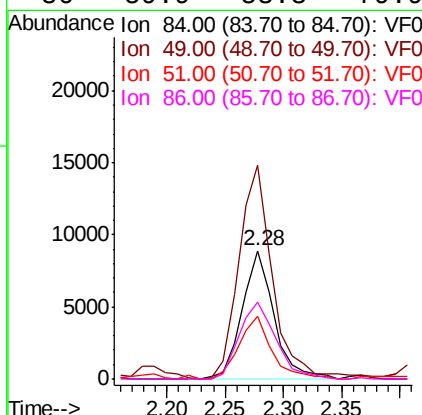
Manual Integrations
APPROVED

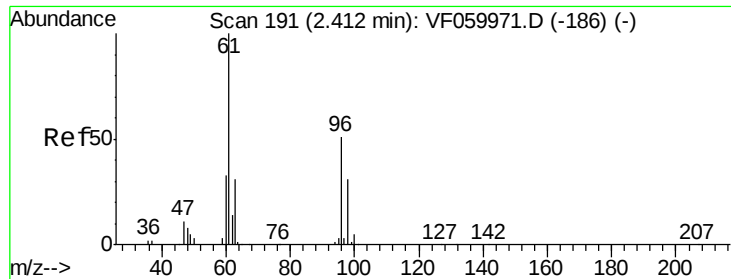
apatel
8/17/2018 11:23:29 AM



#20
Methylene Chloride
Concen: 14.87 ug/l
RT: 2.28 min Scan# 177
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	84	Resp	16915
Ion Ratio	100	Lower	Upper
84	100	53.3	79.9
49	166.4	118.2	177.2
51	48.6	36.3	54.5





#21

trans-1,2-Dichloroethene

Concen: 12.87 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

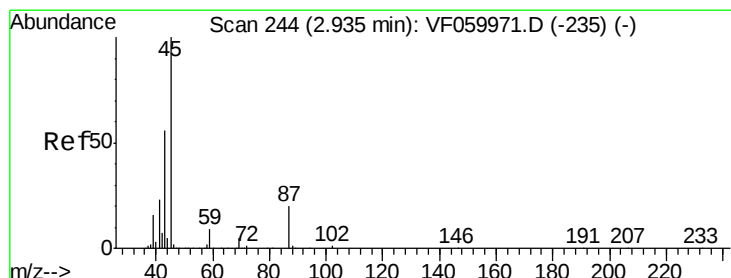
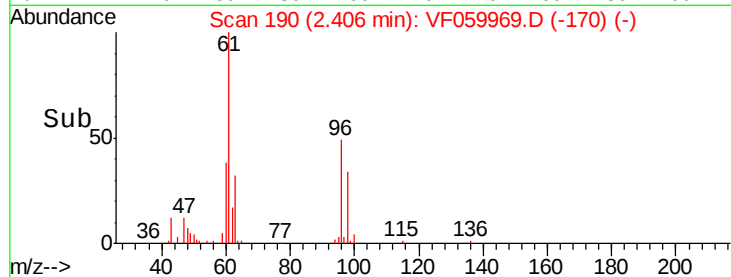
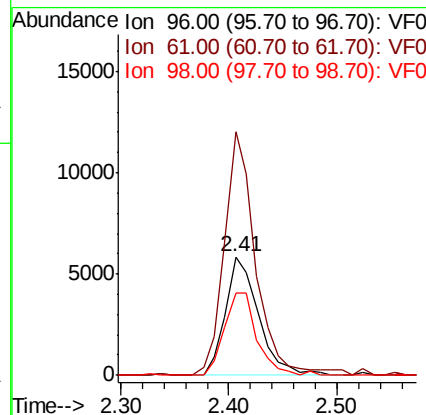
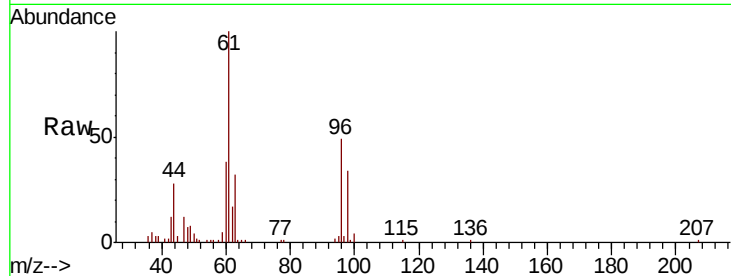
ClientSampleId :

VSTDIC010

Tot Ion:	96	Resp:	12474
Ion	Ratio	Lower	Upper
96	100		
61	206.0	156.9	235.3
98	69.2	48.6	73.0

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#22

Diisopropyl ether

Concen: 12.53 ug/l

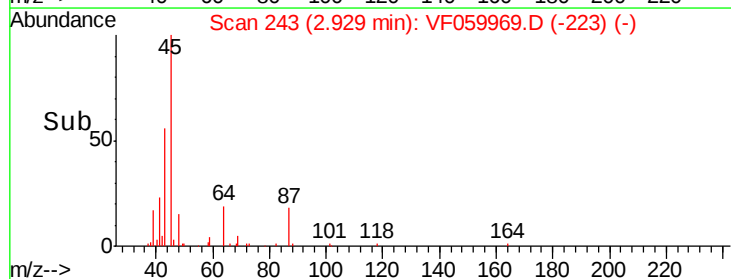
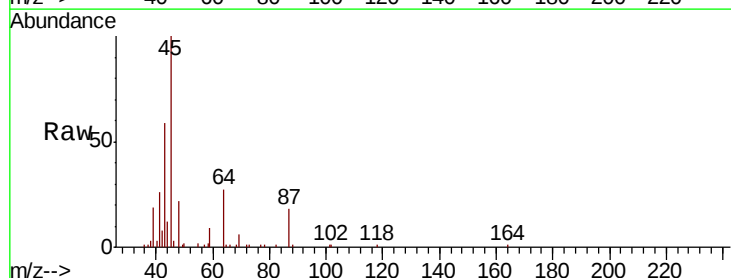
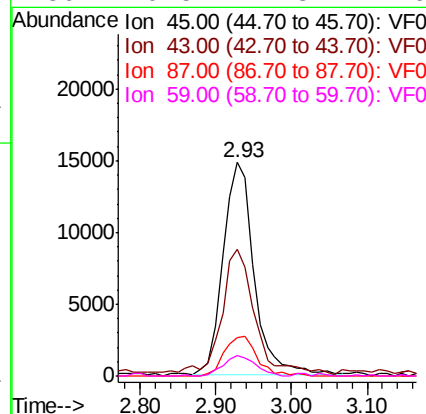
RT: 2.93 min Scan# 243

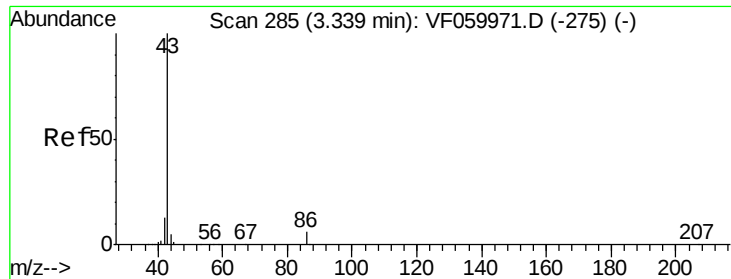
Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion:	45	Resp:	41998
Ion	Ratio	Lower	Upper
45	100		
43	59.5	44.9	67.3
87	18.3	15.8	23.6
59	9.5	7.8	11.6





#23

Vinyl Acetate

Concen: 58.29 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 94223

Ion Ratio Lower Upper

43 100

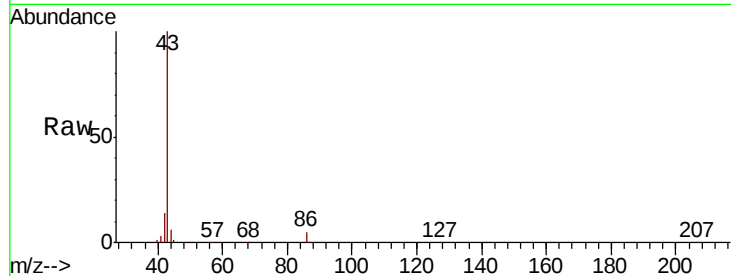
86 5.1 4.5 6.7

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.33

40000

30000

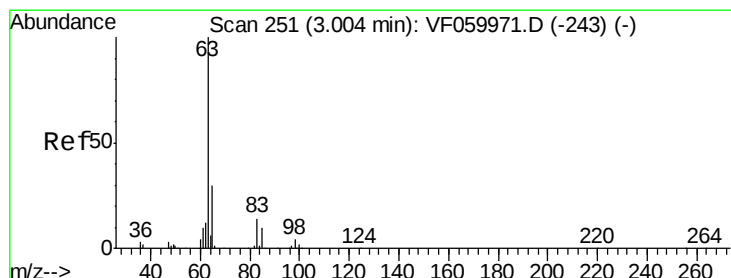
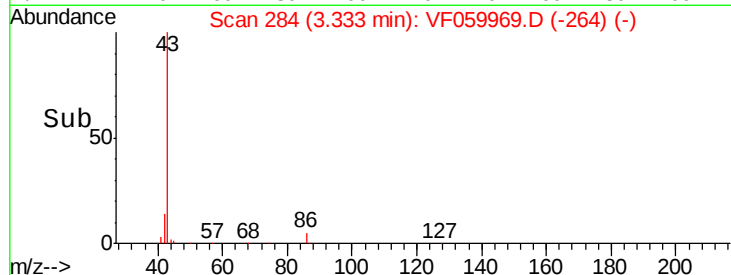
20000

10000

0

Time-->

3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 12.76 ug/l

RT: 3.00 min Scan# 250

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

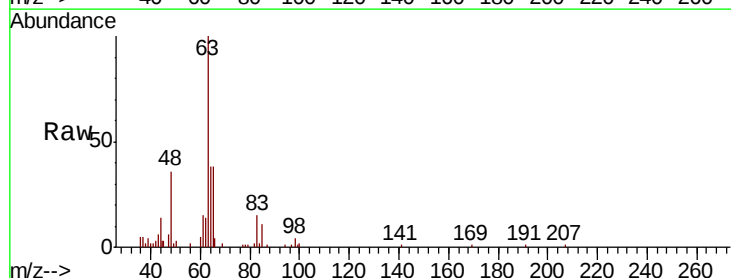
Tgt Ion: 63 Resp: 29869

Ion Ratio Lower Upper

63 100

98 3.8 1.8 5.4

100 1.8 1.1 3.1



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

15000

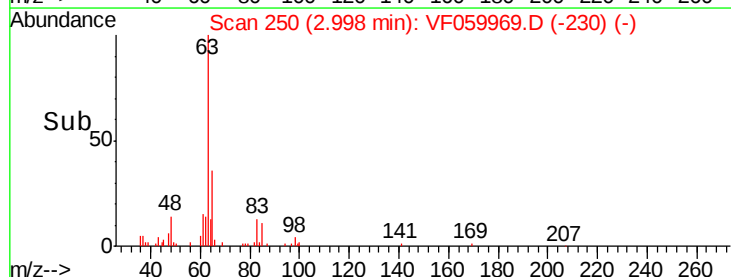
10000

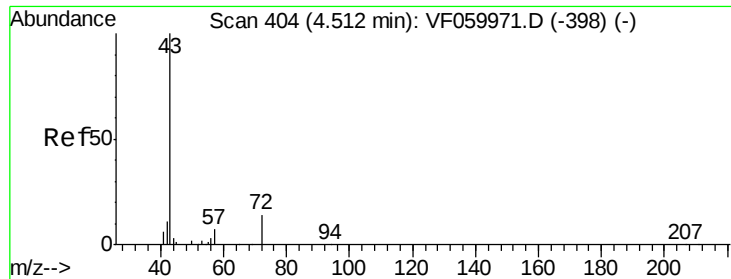
5000

0

Time-->

2.90 3.00 3.10





#25

2-Butanone

Concen: 85.79 ug/l

RT: 4.51 min Scan# 403

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 40820

Ion Ratio Lower Upper

43 100

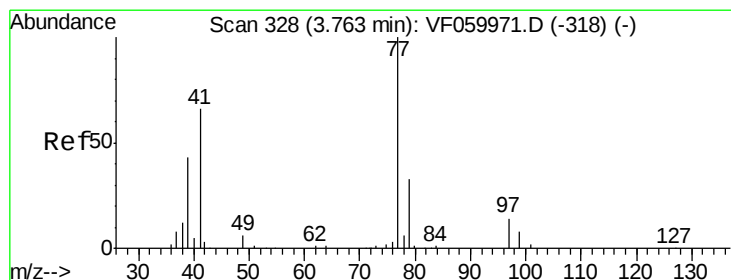
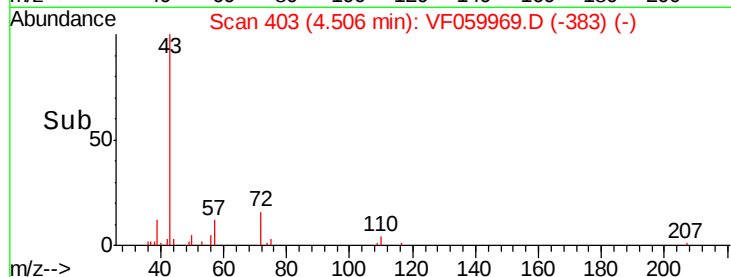
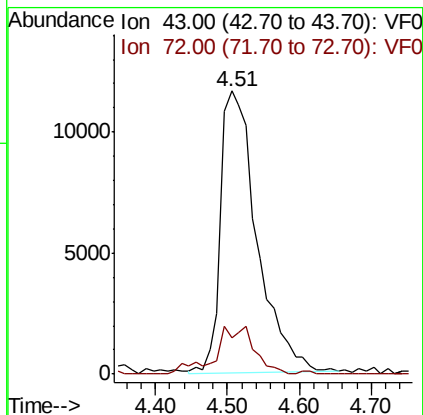
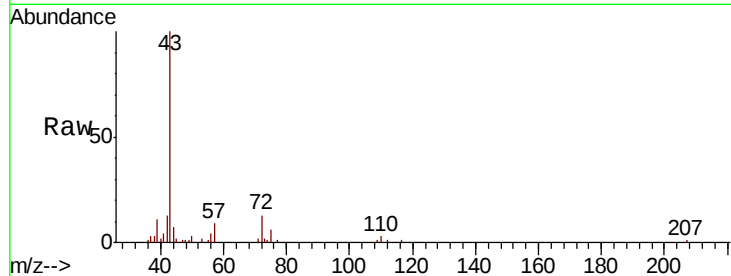
72 13.0 13.4 20.2#

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#26

2,2-Dichloropropane

Concen: 16.54 ug/l

RT: 3.76 min Scan# 327

Delta R.T. -0.01 min

Lab File: VF059969.D

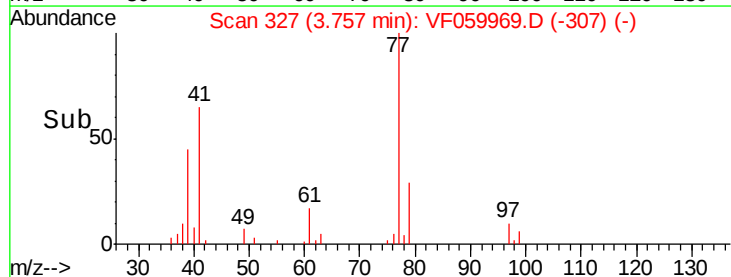
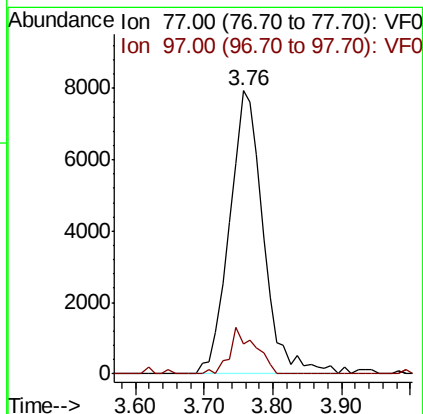
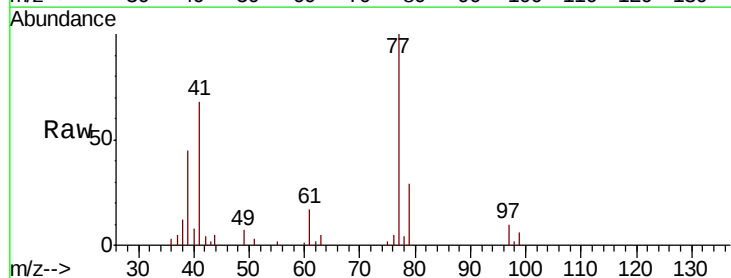
Acq: 16 Aug 2018 19:41

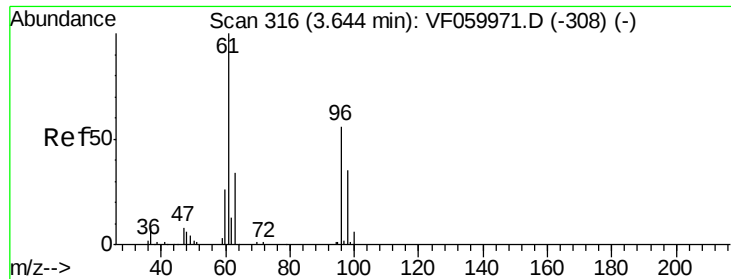
Tgt Ion: 77 Resp: 26985

Ion Ratio Lower Upper

77 100

97 10.4 7.4 22.3





#27

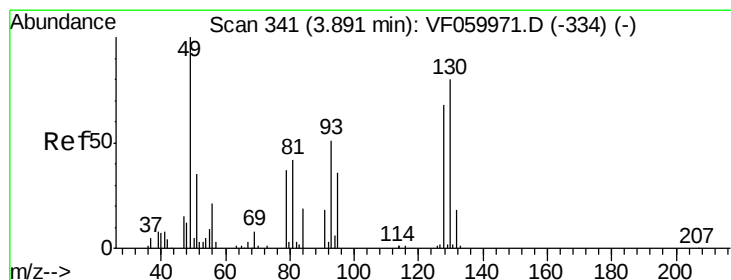
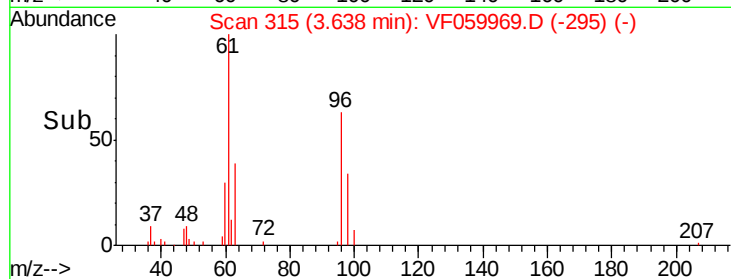
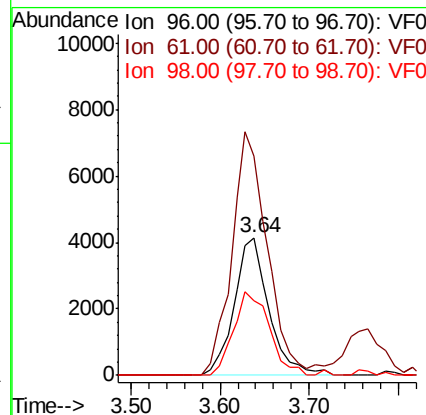
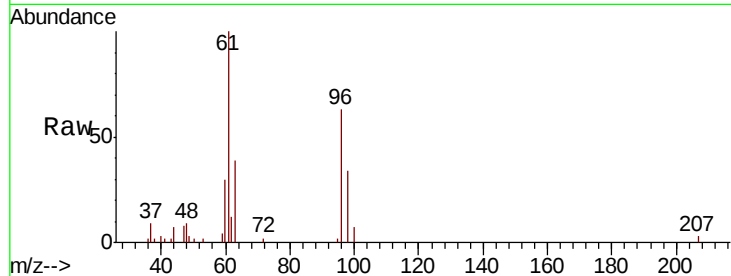
cis-1,2-Dichloroethene
 Concen: 10.81 ug/l
 RT: 3.64 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
96	100		
61	159.7	0.0	356.4
98	54.2	0.0	125.2

Manual Integrations
 APPROVED

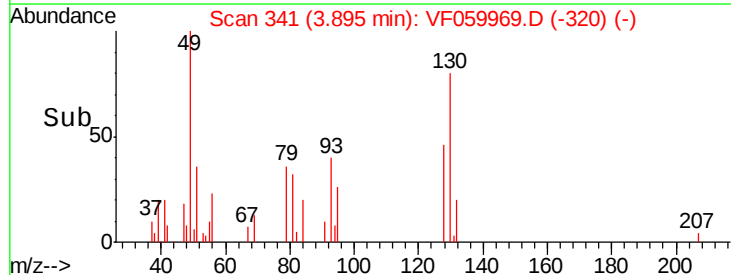
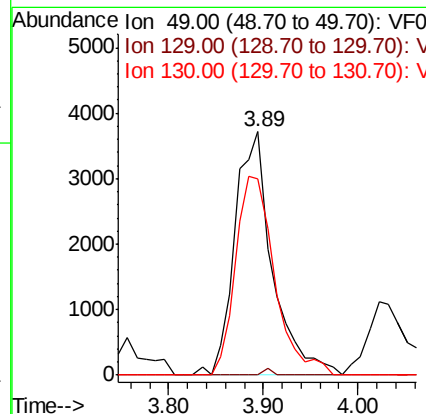
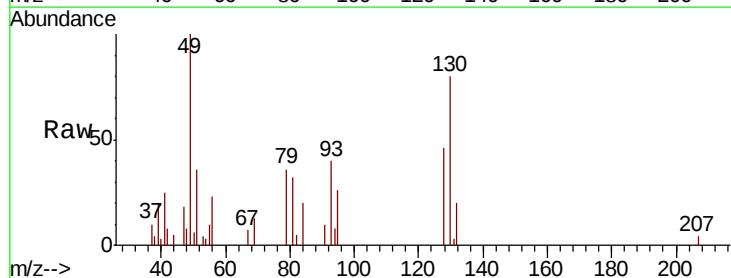
apatel
 8/17/2018 11:23:29 AM

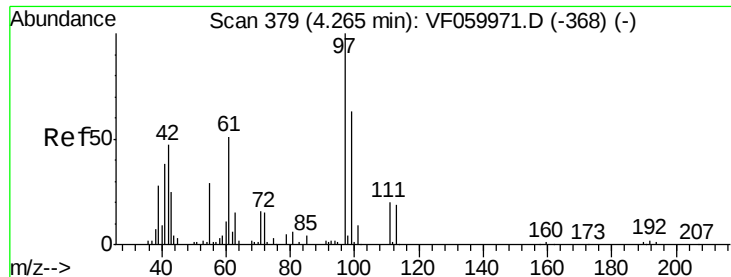


#28

Bromochloromethane
 Concen: 12.41 ug/l
 RT: 3.89 min Scan# 341
 Delta R.T. 0.00 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	80.4	64.0	96.0





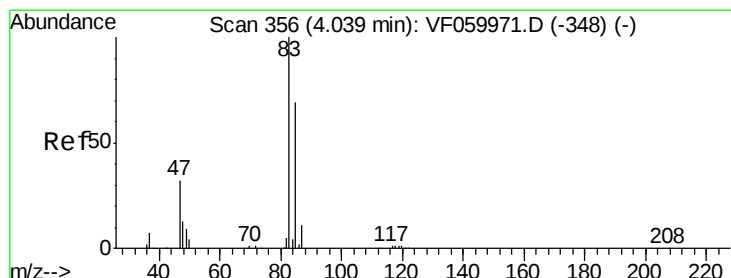
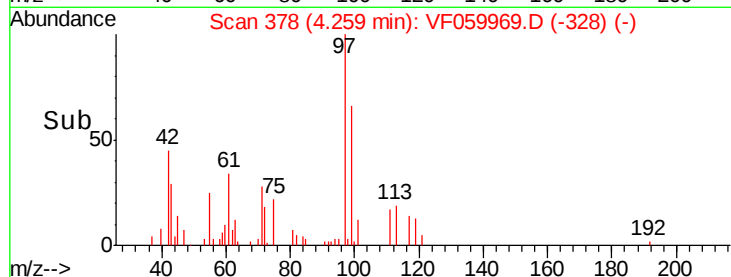
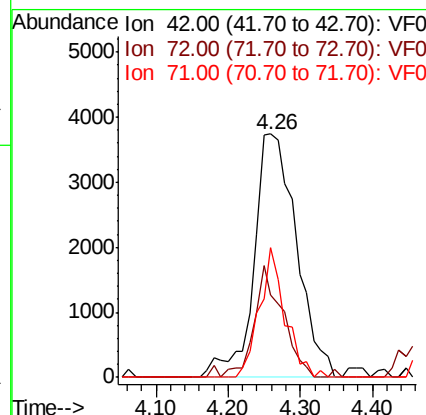
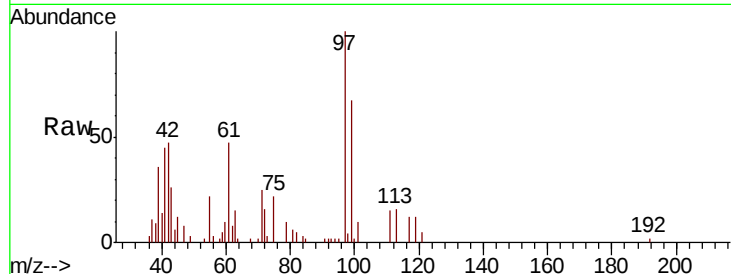
#29
Tetrahydrofuran
Concen: 91.70 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	30.8	27.9	41.9
71	32.3	26.9	40.3

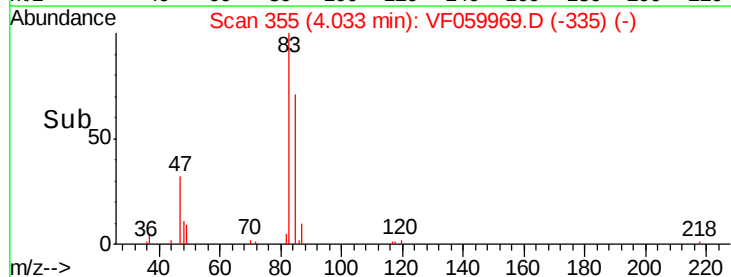
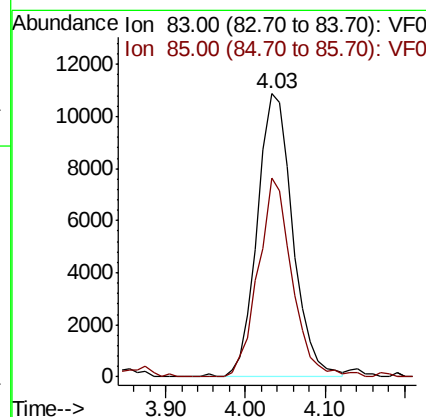
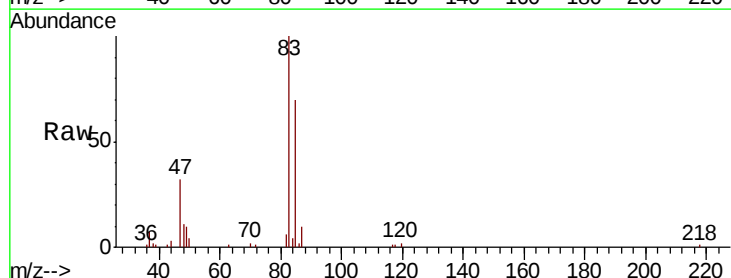
Manual Integrations
APPROVED

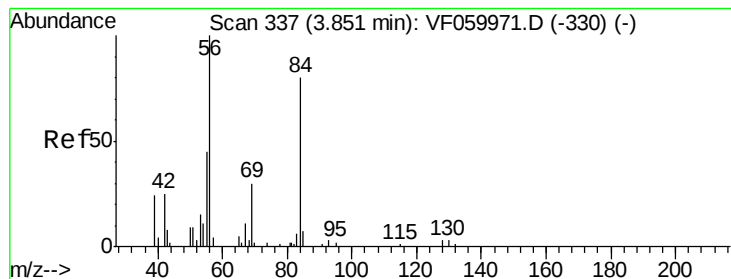
apatel
8/17/2018 11:23:29 AM



#30
Chloroform
Concen: 10.82 ug/l
RT: 4.03 min Scan# 355
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	70.1	54.9	82.3





#31

Cyclohexane

Concen: 11.50 ug/l

RT: 3.85 min Scan# 336

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

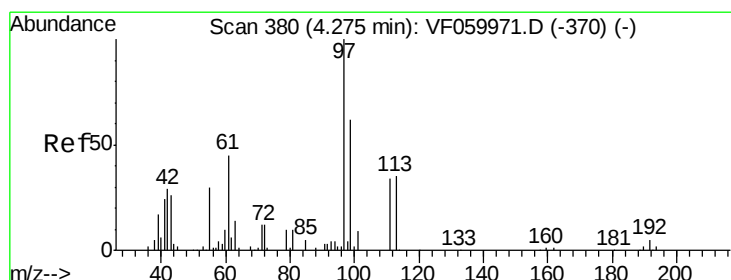
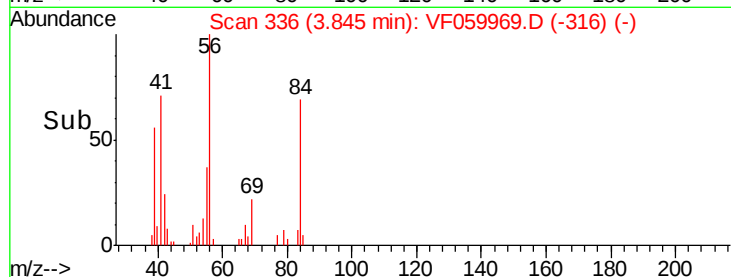
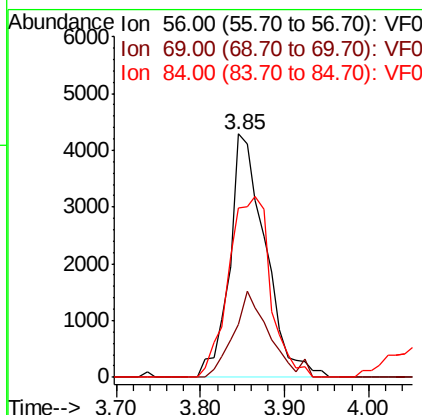
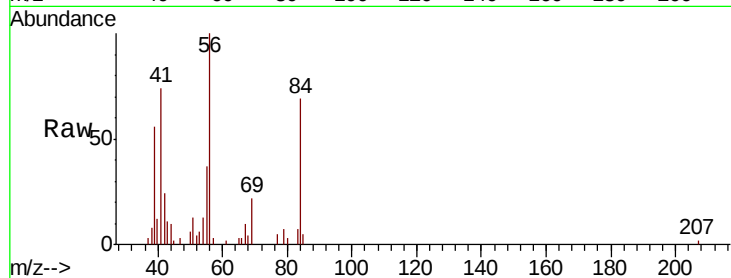
ClientSampleId :

VSTDIC010

Tot Ion:	56	Resp:	12701
Ion Ratio	Lower	Upper	
56	100		
69	21.9	23.8	35.6#
84	69.4	64.3	96.5

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#32

1,1,1-Trichloroethane

Concen: 13.04 ug/l

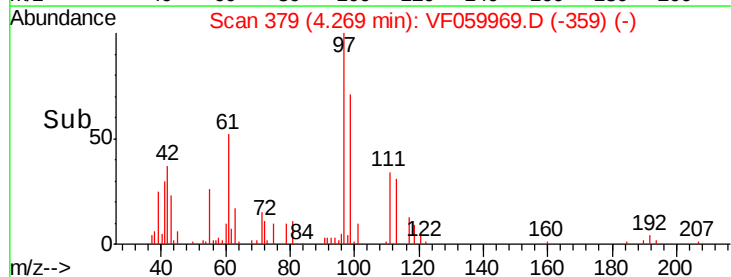
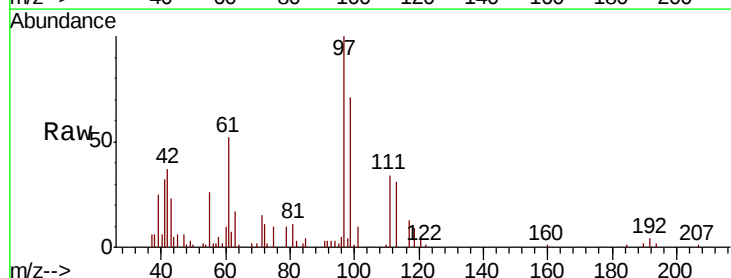
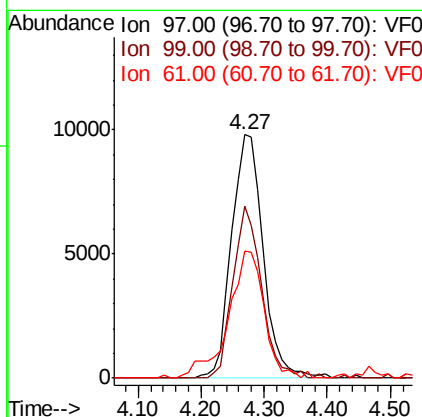
RT: 4.27 min Scan# 379

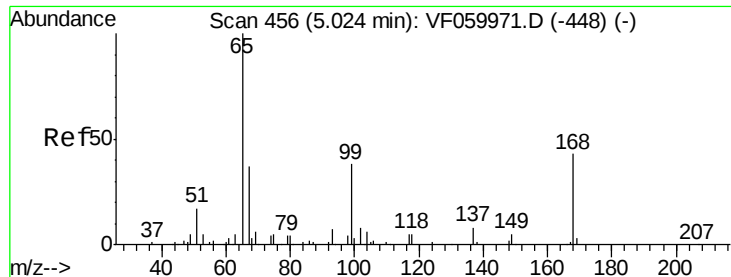
Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion:	97	Resp:	34045
Ion Ratio	Lower	Upper	
97	100		
99	70.9	49.3	73.9
61	52.3	36.5	54.7





#33

1,2-Dichloroethane-d4

Concen: 13.36 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 65 Resp: 29425

Ion Ratio Lower Upper

65 100

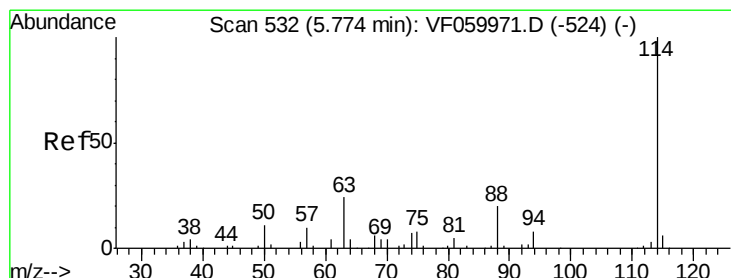
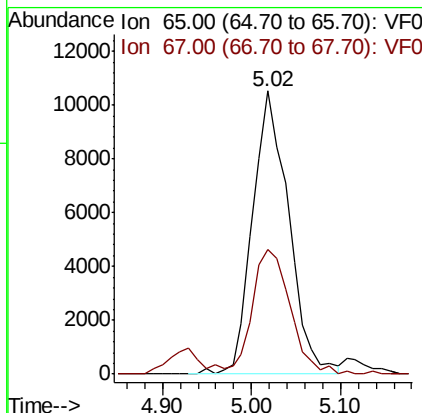
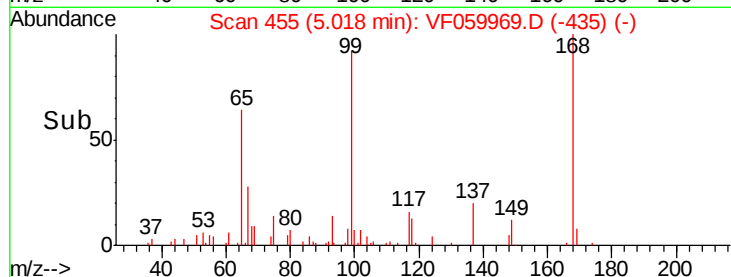
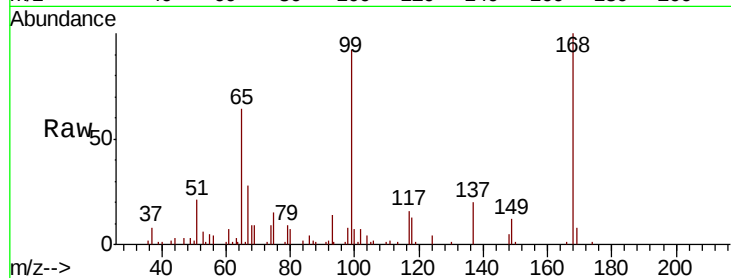
67 44.1 0.0 84.8

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

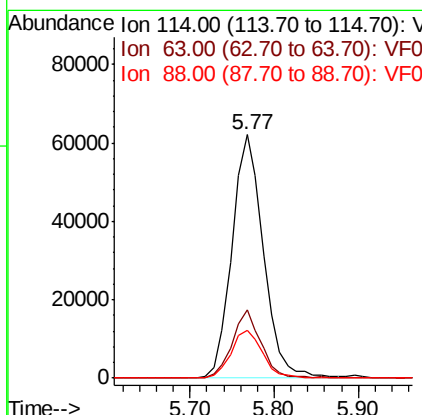
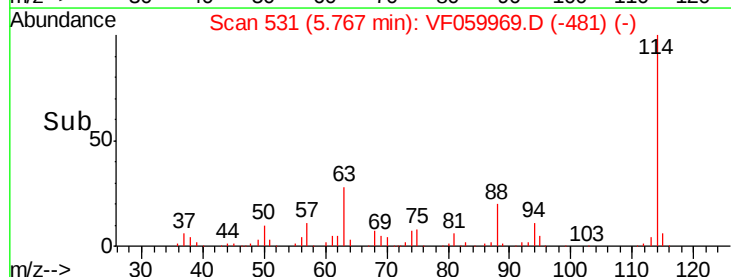
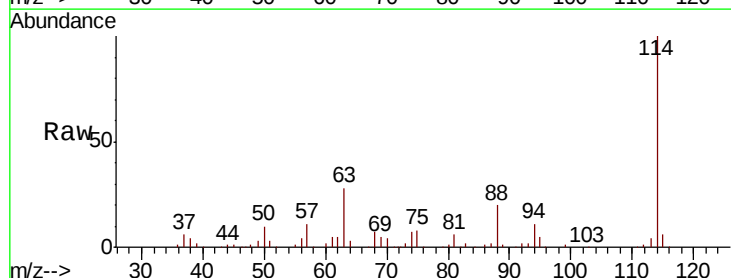
Tgt Ion: 114 Resp: 161770

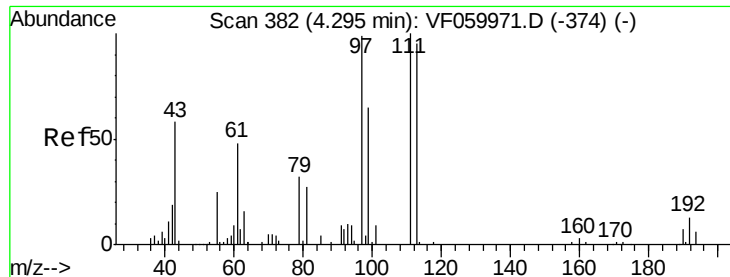
Ion Ratio Lower Upper

114 100

63 28.0 0.0 48.8

88 19.5 0.0 39.6





#35

Dibromofluoromethane

Concen: 12.36 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

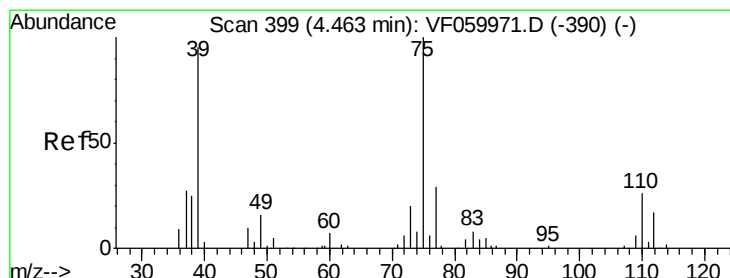
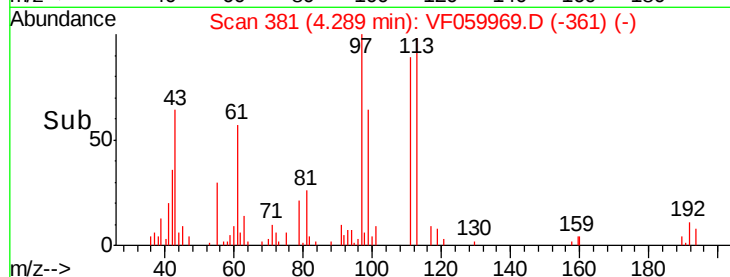
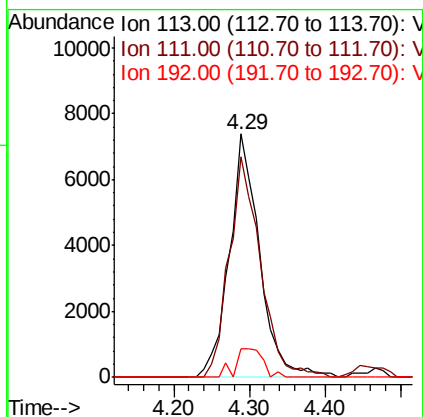
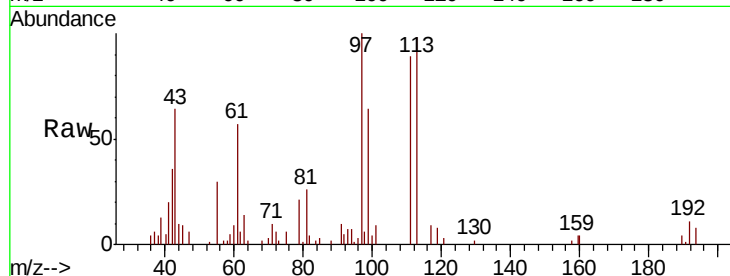
ClientSampleId :

VSTDIC010

Tot Ion:	113	Resp:	20315
Ion	Ratio	Lower	Upper
113	100		
111	90.8	83.9	125.9
192	11.5	11.3	16.9

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#36

1,1-Dichloropropene

Concen: 11.67 ug/l

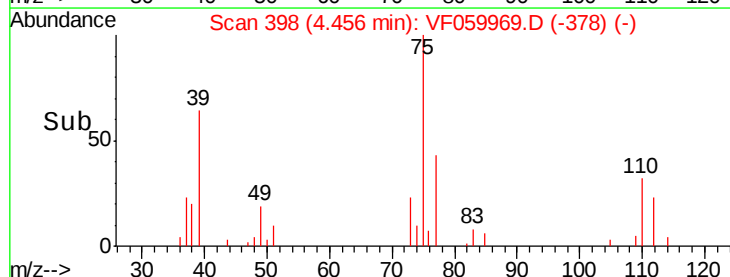
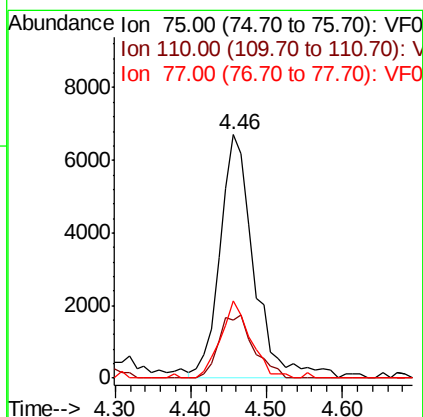
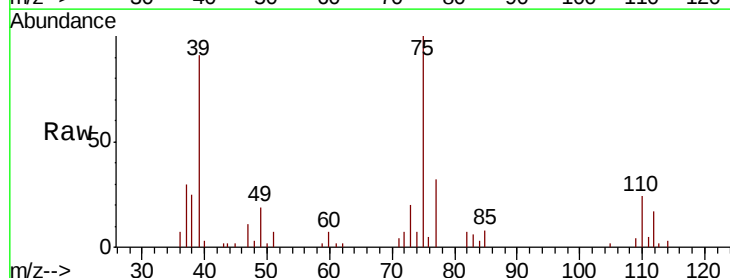
RT: 4.46 min Scan# 398

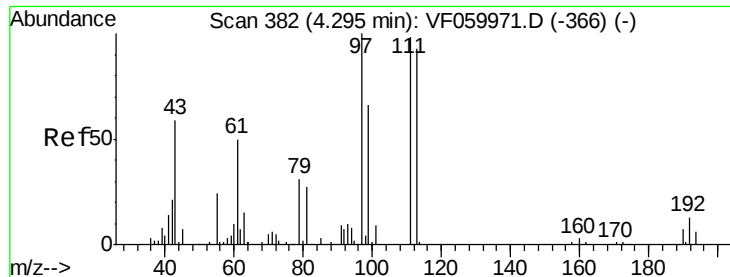
Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion:	75	Resp:	20922
Ion	Ratio	Lower	Upper
75	100		
110	23.9	13.1	39.3
77	31.9	23.4	35.0





#37

Ethyl Acetate

Concen: 20.93 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

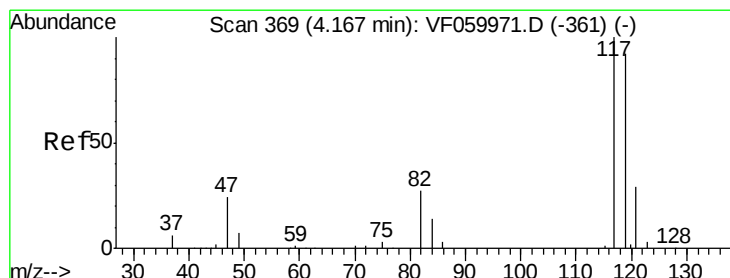
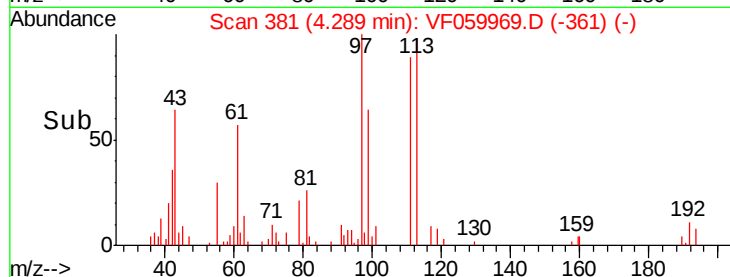
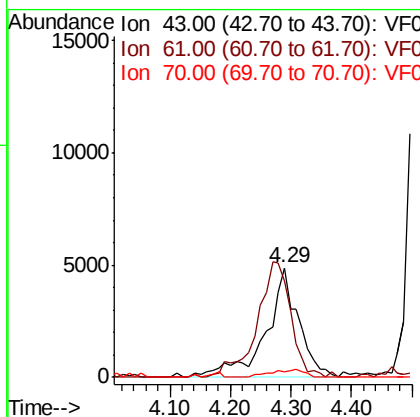
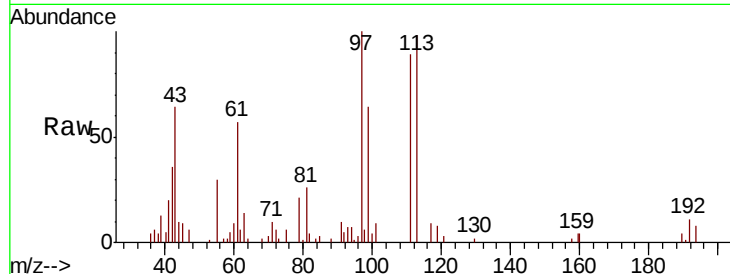
ClientSampleId :

VSTDIC010

Tot Ion:	43	Resp:	18309
Ion	Ratio	Lower	Upper
43	100		
61	88.4	67.0	100.4
70	5.2	6.7	10.1#

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#38

Carbon Tetrachloride

Concen: 9.63 ug/l

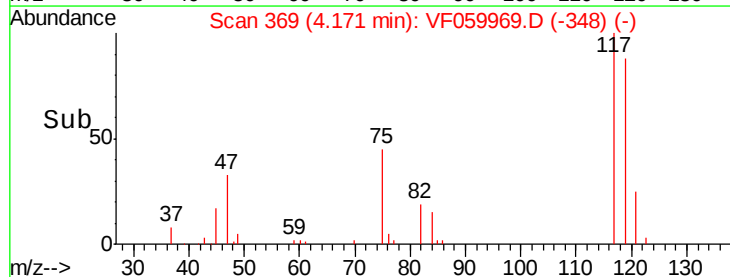
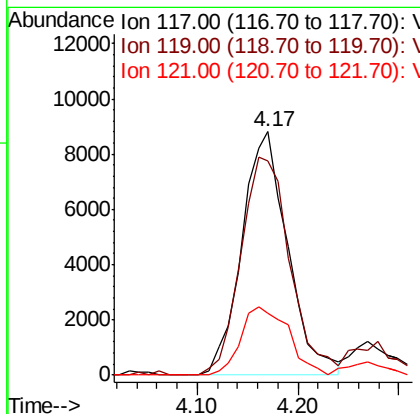
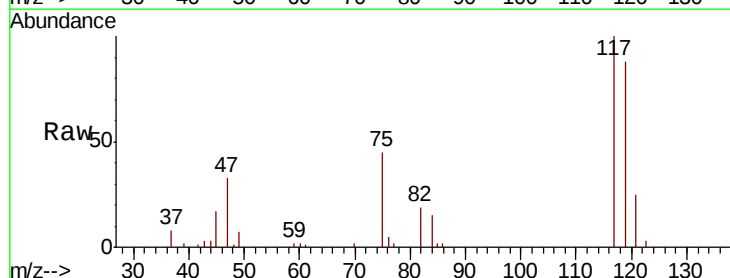
RT: 4.17 min Scan# 369

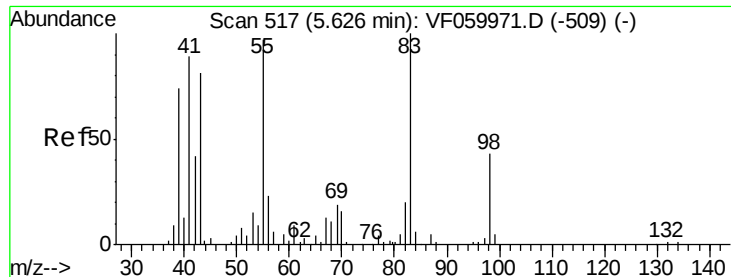
Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion:	117	Resp:	28004
Ion	Ratio	Lower	Upper
117	100		
119	88.0	73.6	110.4
121	25.2	23.4	35.2





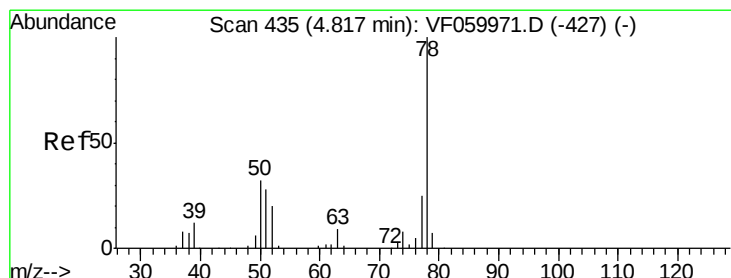
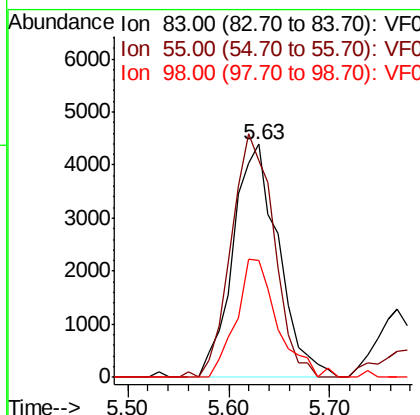
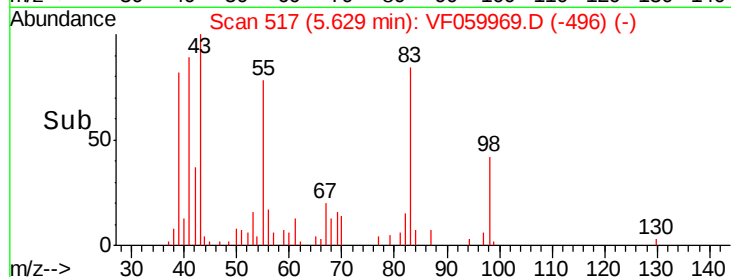
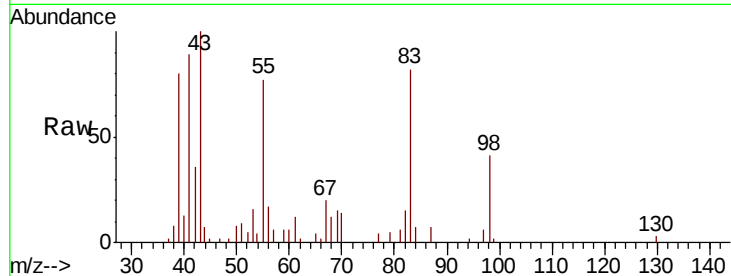
#39
Methvlcvclohexane
Concen: 10.59 ug/l
RT: 5.63 min Scan# 517
Delta R.T. 0.00 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
83	100		
55	93.1	77.7	116.5
98	50.1	34.2	51.4

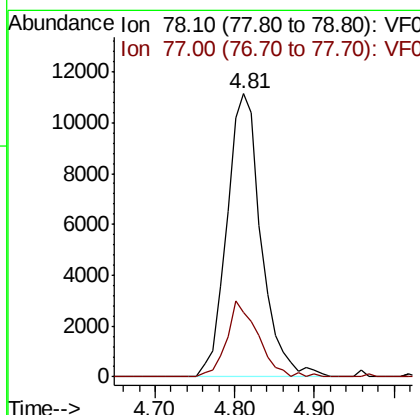
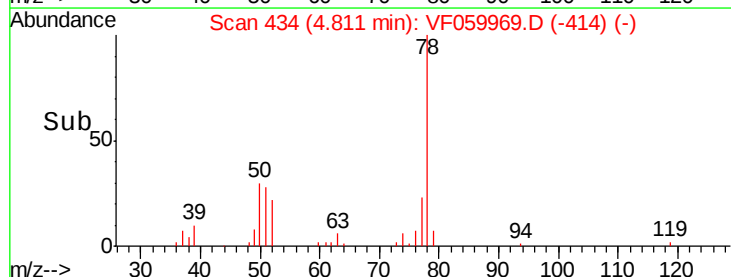
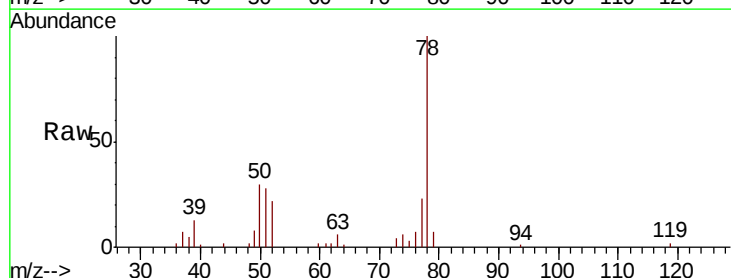
Manual Integrations
APPROVED

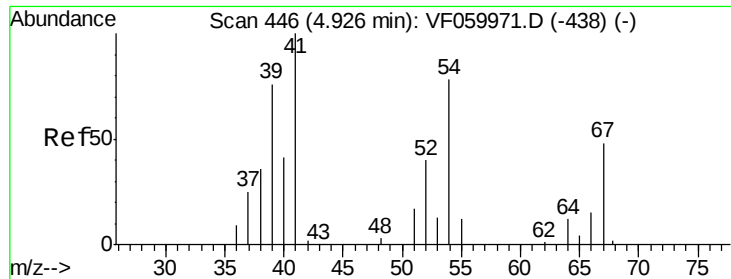
apatel
8/17/2018 11:23:29 AM



#40
Benzene
Concen: 11.13 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	20.3	30.5





#41

Methacrylonitrile

Concen: 16.48 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 41 Resp: 6860

Ion Ratio Lower Upper

41 100

39 79.6 69.9 104.9

67 39.5 38.6 58.0

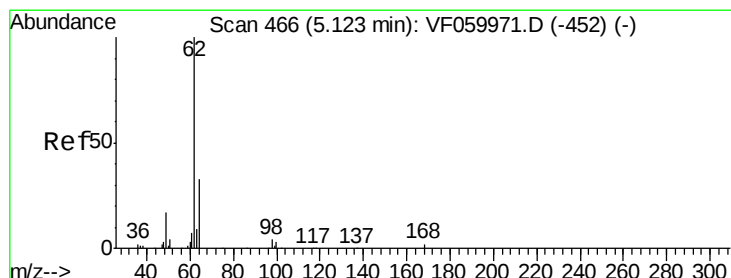
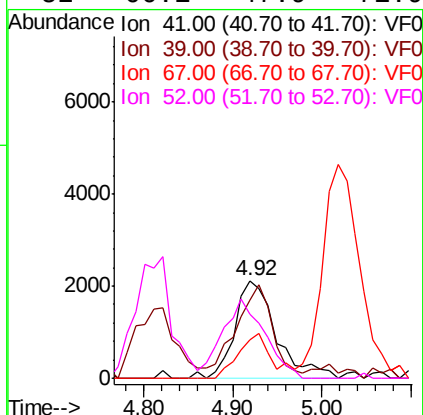
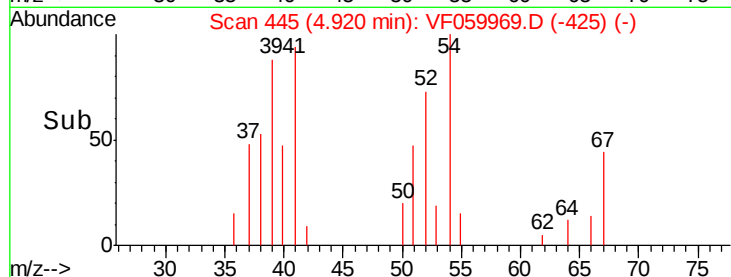
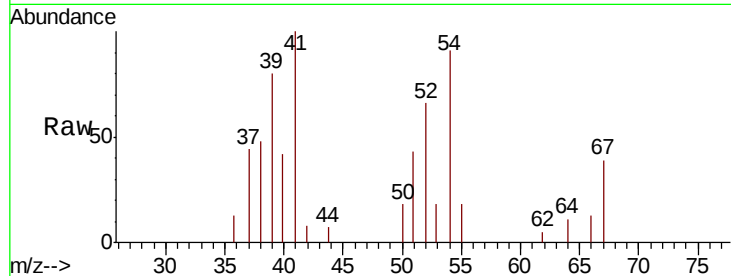
52 66.1 47.9 71.9

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#42

1,2-Dichloroethane

Concen: 13.87 ug/l

RT: 5.12 min Scan# 465

Delta R.T. -0.01 min

Lab File: VF059969.D

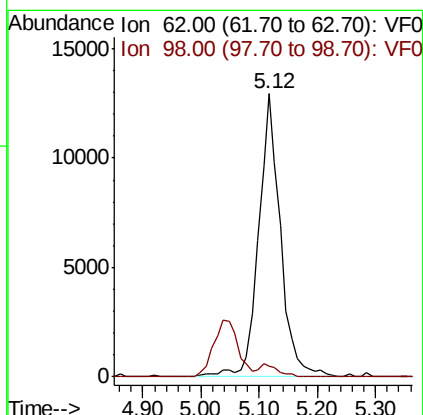
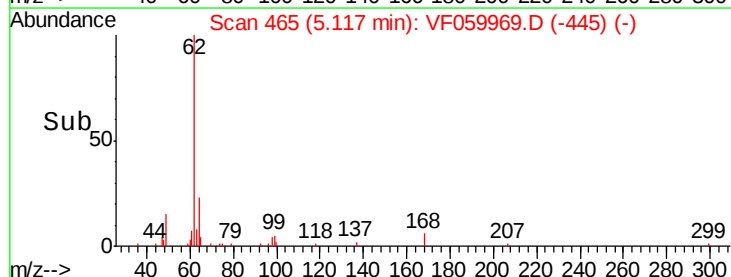
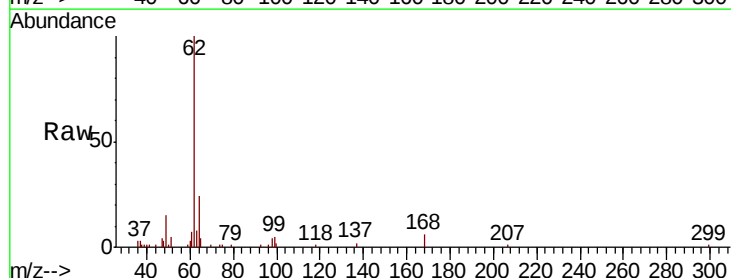
Acq: 16 Aug 2018 19:41

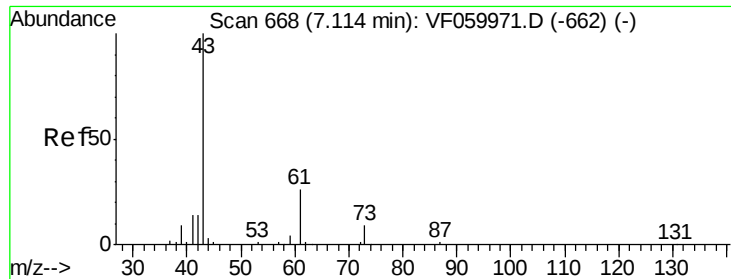
Tgt Ion: 62 Resp: 34366

Ion Ratio Lower Upper

62 100

98 3.6 0.0 8.2





#43

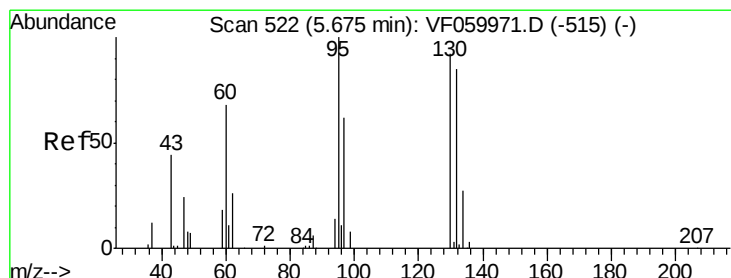
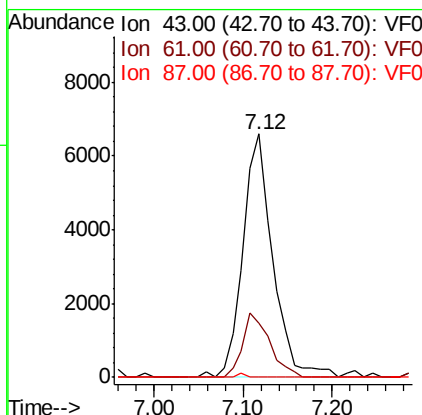
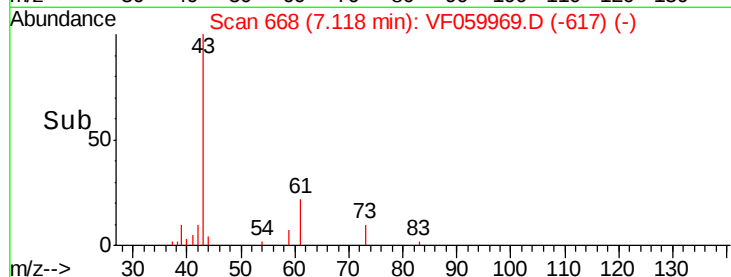
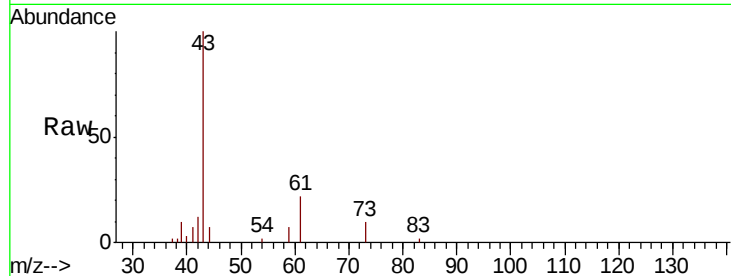
Isopropyl Acetate
 Concen: 16.02 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
61	22.4	20.8	31.2
87	0.0	0.5	0.7#

Manual Integrations
 APPROVED

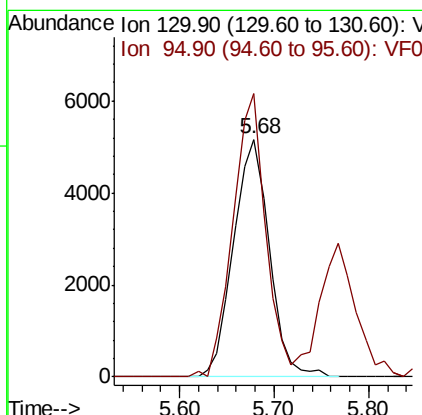
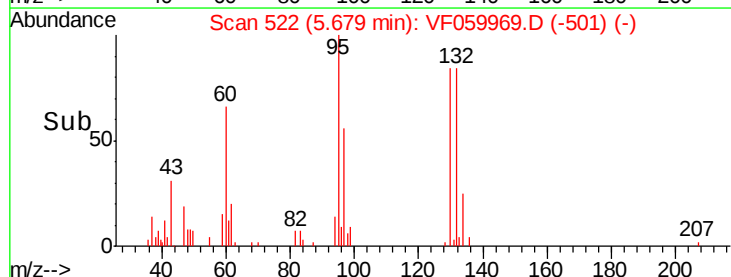
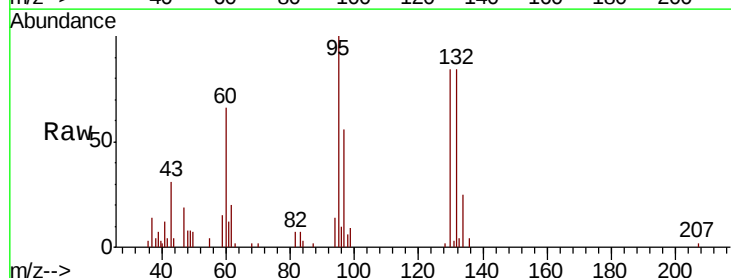
apatel
 8/17/2018 11:23:29 AM

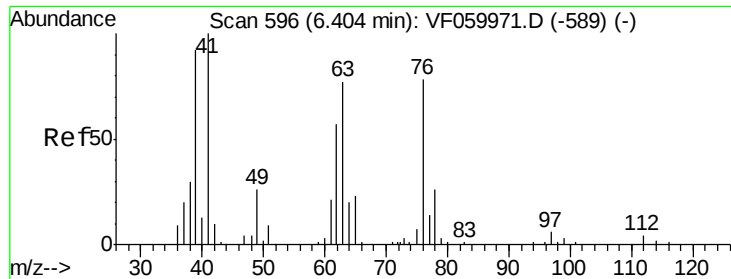


#44

Trichloroethene
 Concen: 11.62 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. 0.00 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
130	100		
95	119.2	0.0	218.4





#45

1,2-Dichloropropane

Concen: 12.12 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 63 Resp: 9905

Ion Ratio Lower Upper

63 100

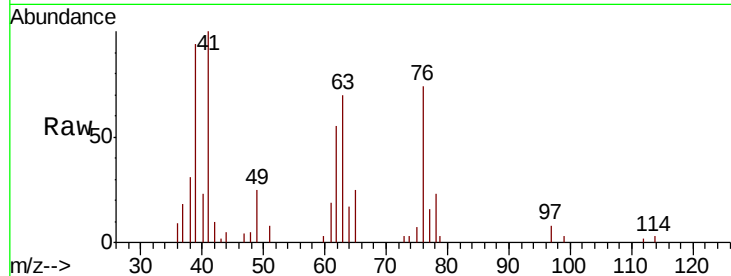
65 36.0 23.8 35.6#

Manual Integrations

APPROVED

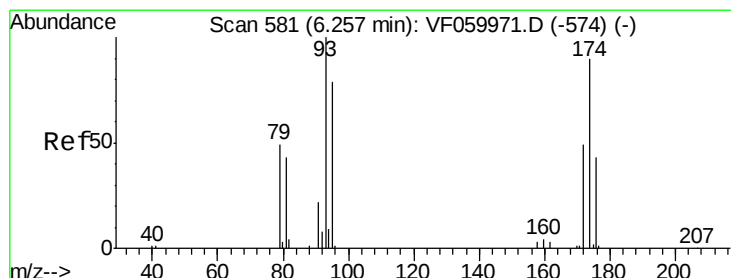
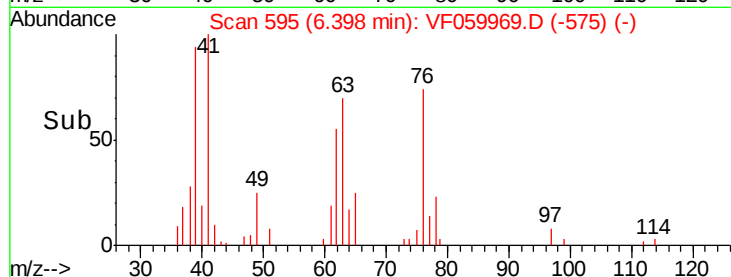
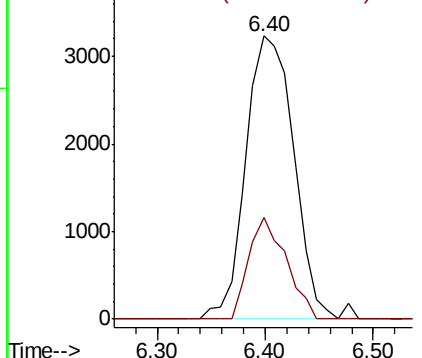
apatel

8/17/2018 11:23:29 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 13.33 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

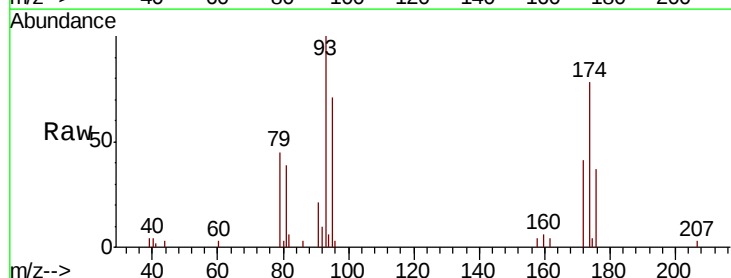
Tgt Ion: 93 Resp: 11037

Ion Ratio Lower Upper

93 100

95 70.5 64.0 96.0

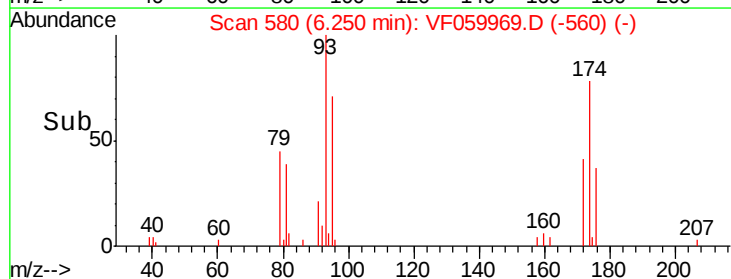
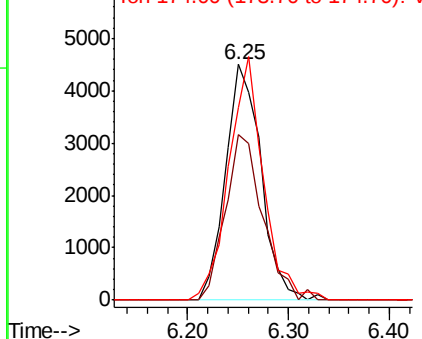
174 81.7 71.8 107.8

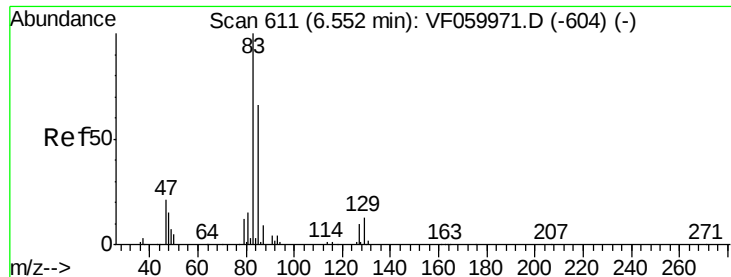


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 11.61 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

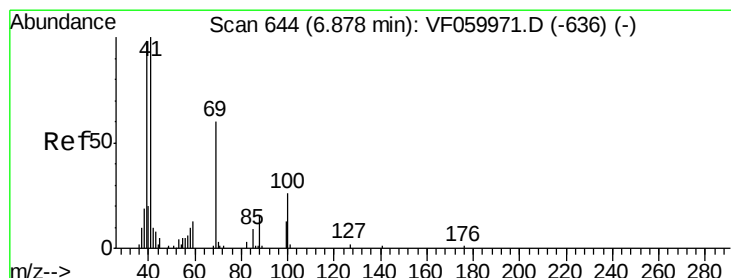
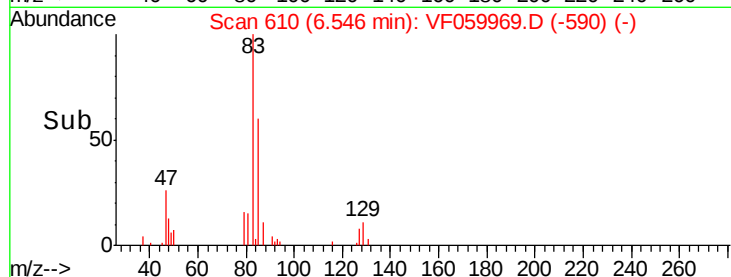
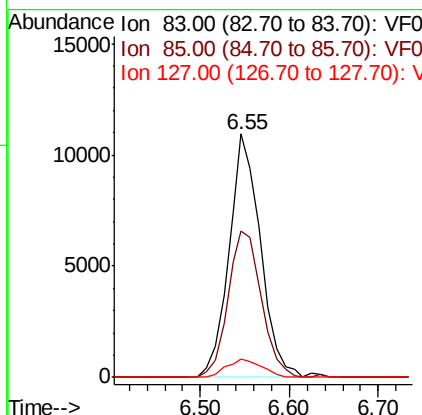
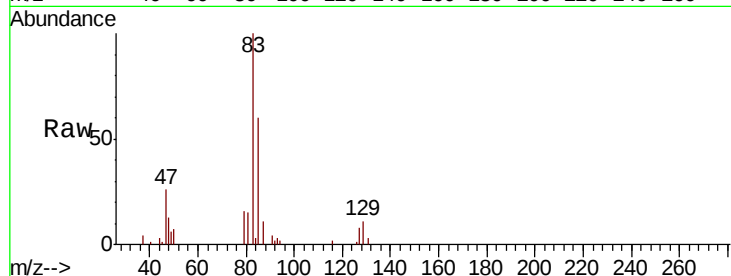
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	26978
Ion	Ratio	Lower	Upper
83	100		
85	60.1	53.2	79.8
127	7.6	8.4	12.6#

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#48

Methyl methacrylate

Concen: 14.15 ug/l

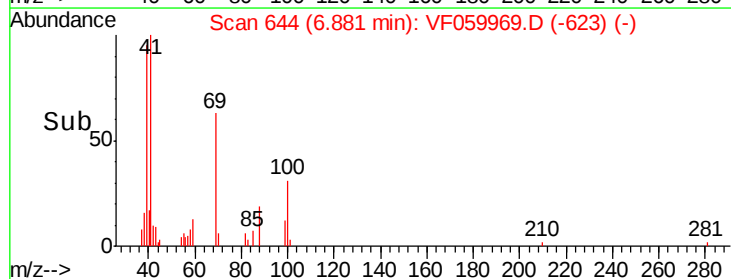
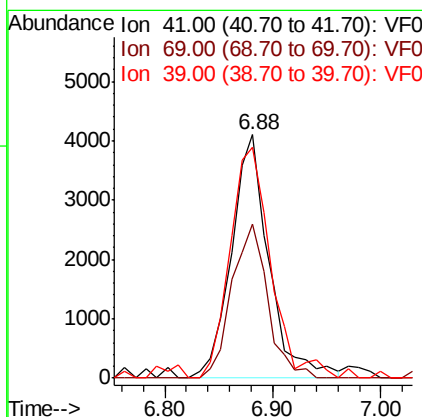
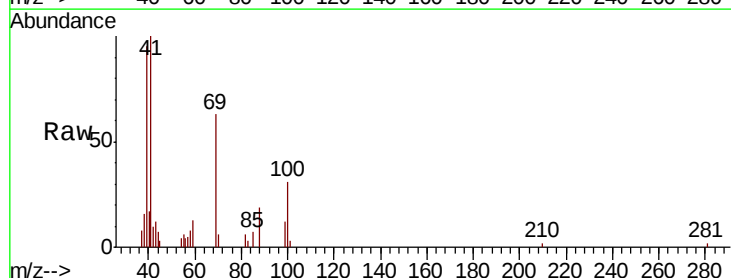
RT: 6.88 min Scan# 644

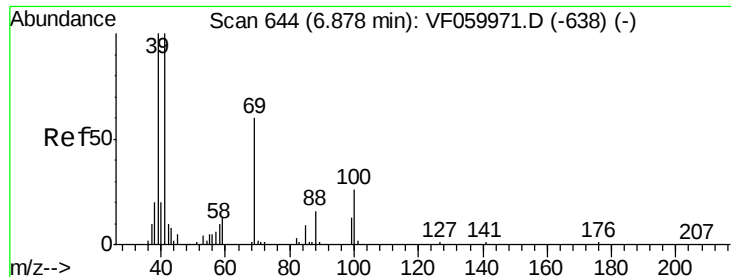
Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion:	41	Resp:	9928
Ion	Ratio	Lower	Upper
41	100		
69	63.5	48.1	72.1
39	94.7	79.3	118.9





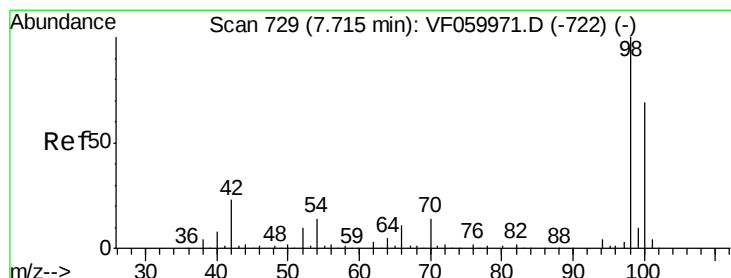
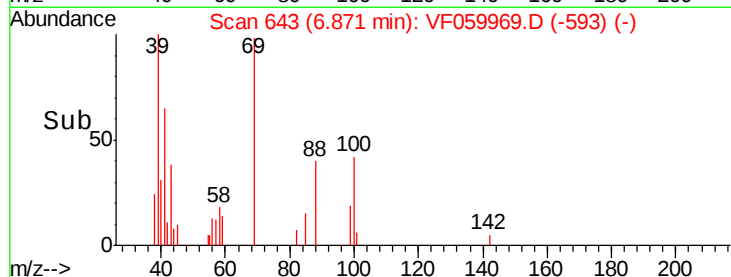
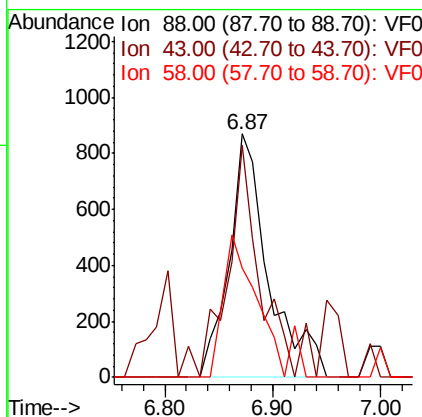
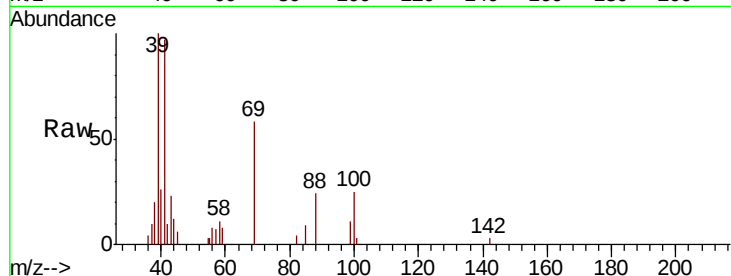
#49
1,4-Dioxane
Concen: 388.98 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
88	100		
43	95.5	45.3	67.9#
58	44.9	51.2	76.8#

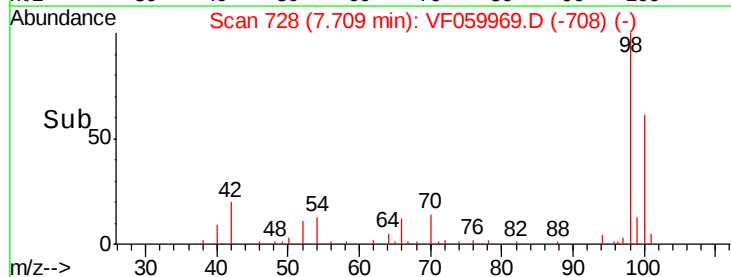
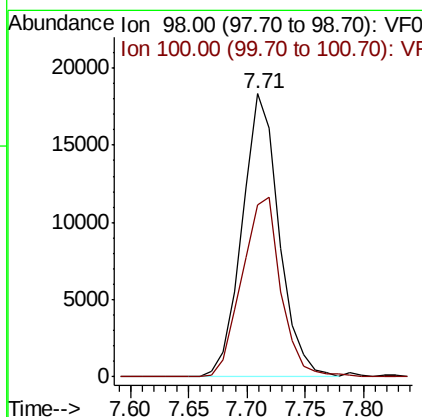
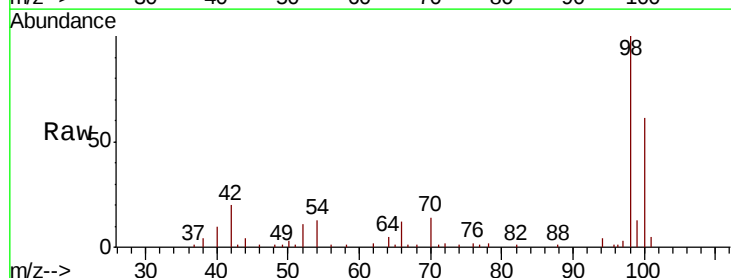
Manual Integrations
APPROVED

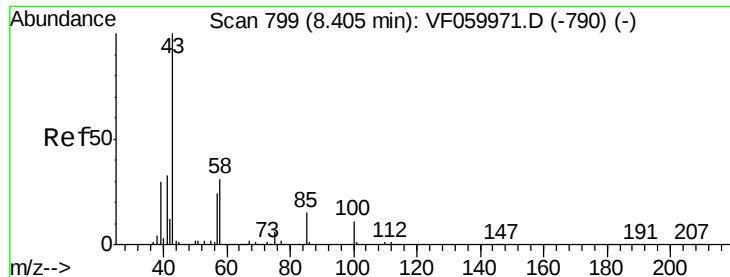
apatel
8/17/2018 11:23:29 AM



#50
Toluene-d8
Concen: 11.25 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
98	100		
100	60.7	55.3	82.9





#51

4-Methyl-2-Pentanone

Concen: 89.18 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 80937

Ion Ratio Lower Upper

43 100

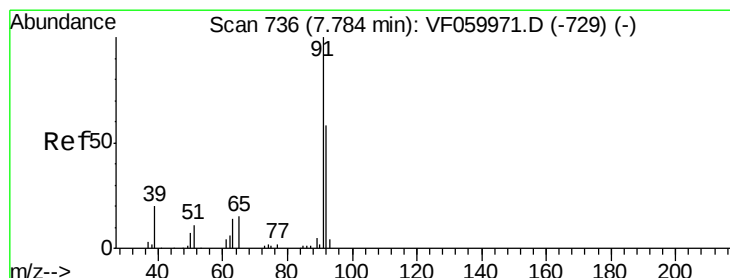
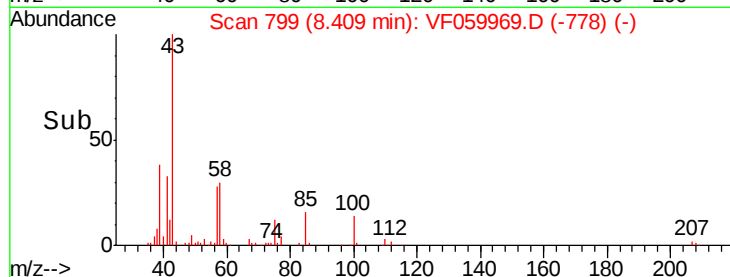
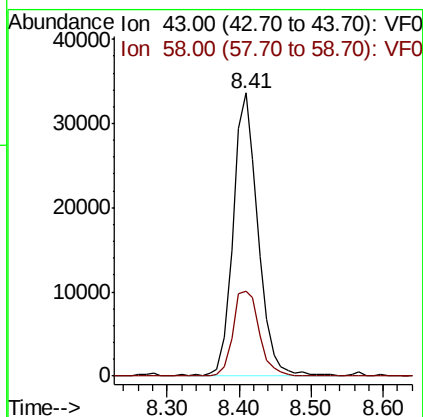
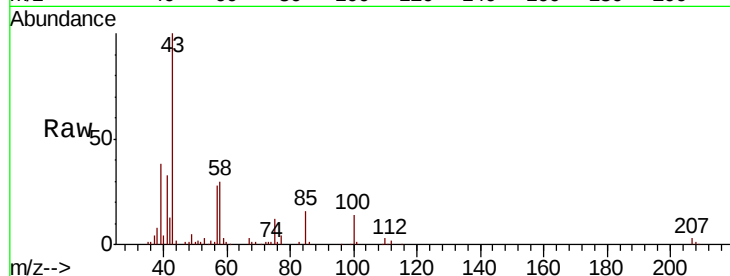
58 30.2 24.6 37.0

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#52

Toluene

Concen: 11.29 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF059969.D

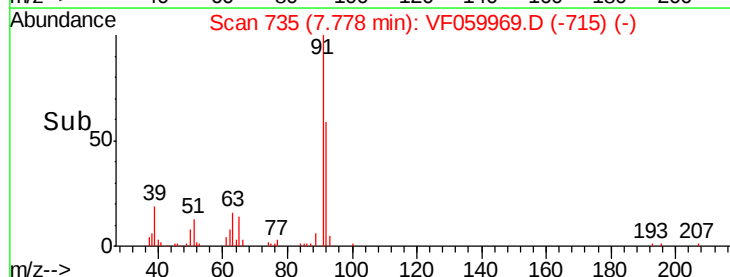
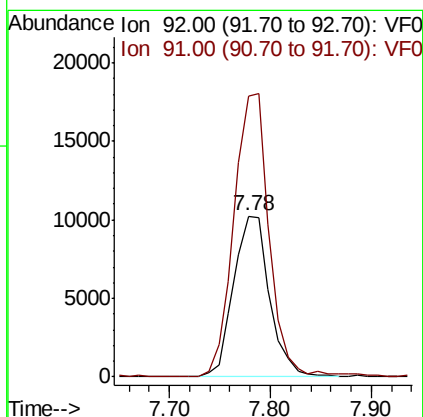
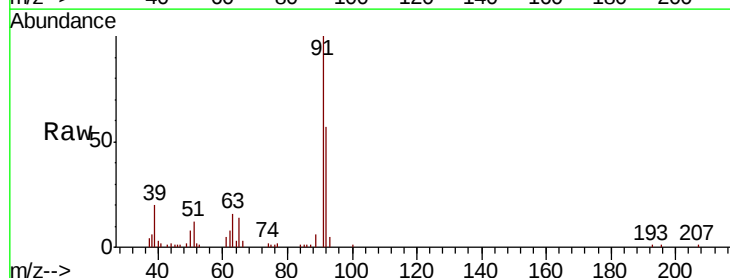
Acq: 16 Aug 2018 19:41

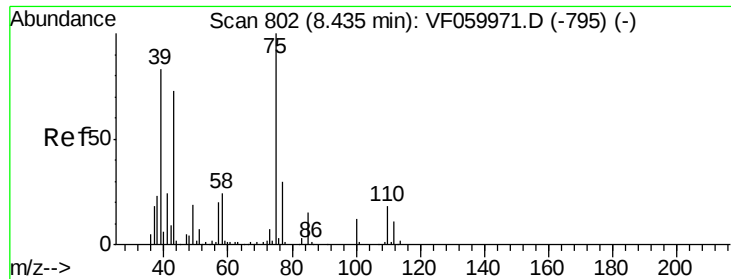
Tgt Ion: 92 Resp: 25472

Ion Ratio Lower Upper

92 100

91 174.6 138.6 208.0





#53

t-1,3-Dichloropropene

Concen: 12.70 ug/l

RT: 8.43 min Scan# 801

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 75 Resp: 24505

Ion Ratio Lower Upper

75 100

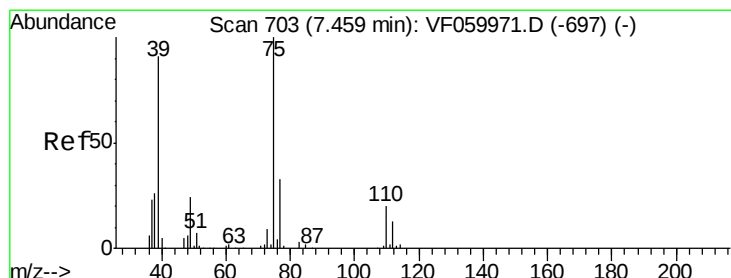
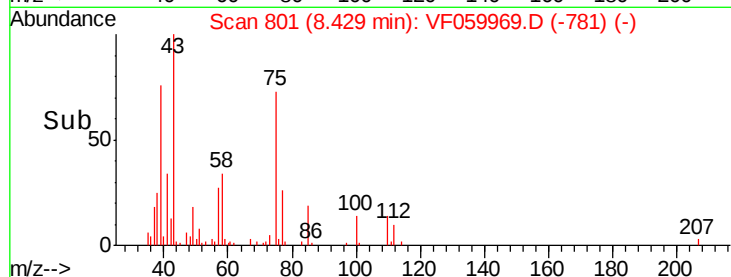
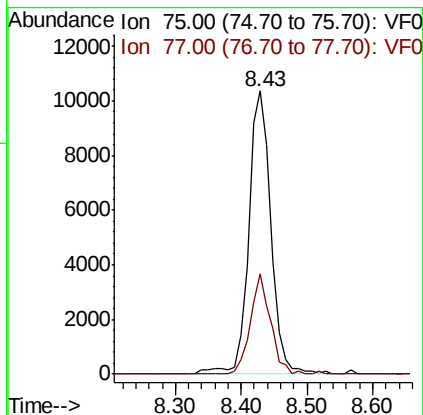
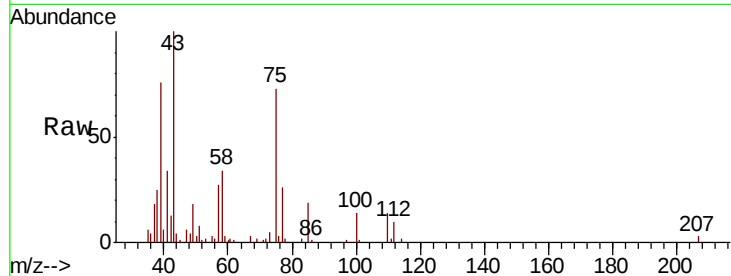
77 35.5 23.5 35.3#

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#54

cis-1,3-Dichloropropene

Concen: 11.49 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

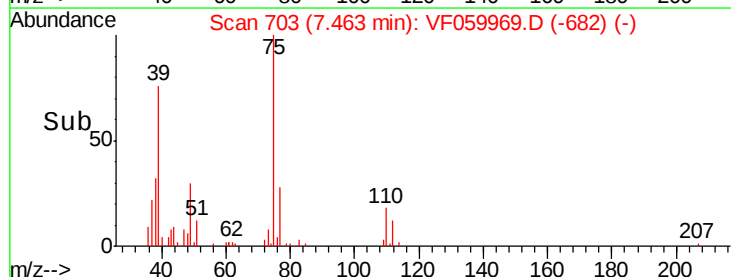
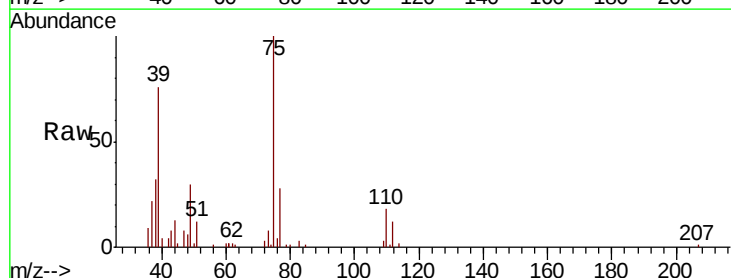
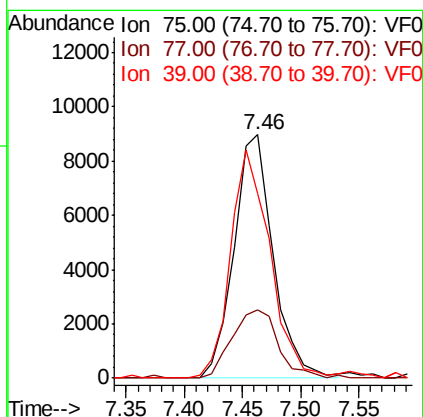
Tgt Ion: 75 Resp: 20977

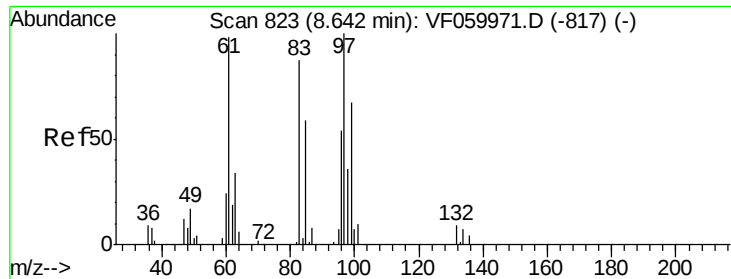
Ion Ratio Lower Upper

75 100

77 28.2 26.2 39.4

39 76.0 73.2 109.8





#55

1,1,2-Trichloroethane

Concen: 15.49 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

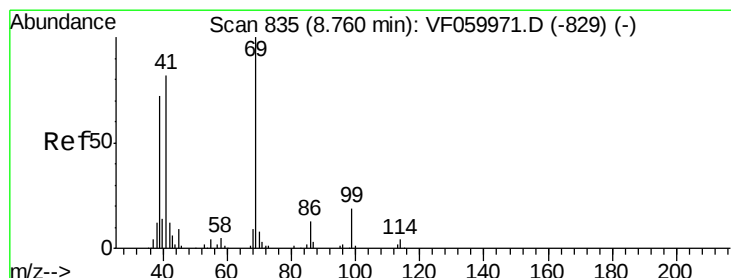
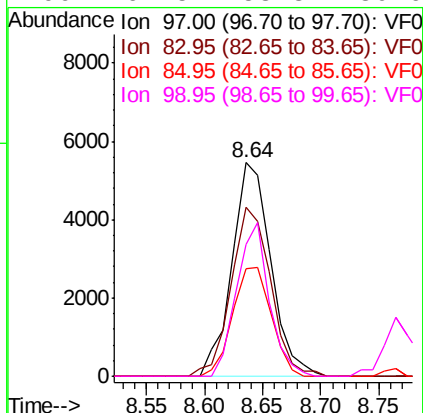
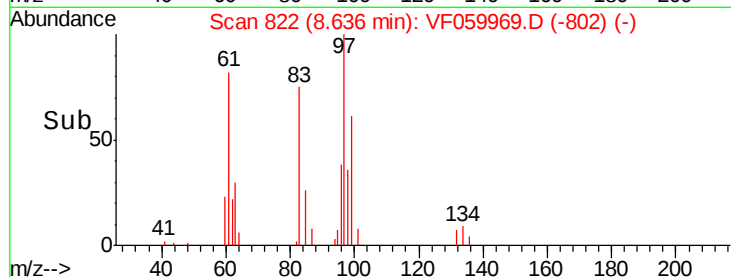
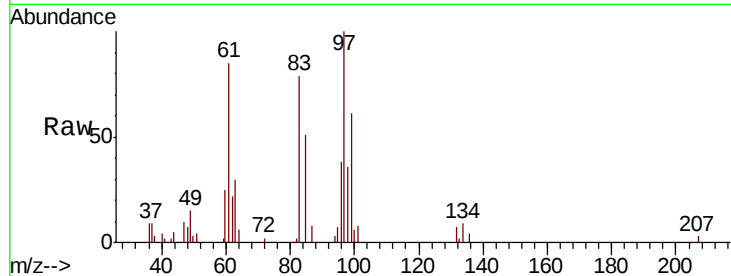
ClientSampleId :

VSTDIC010

Tot Ion:	97	Resp:	12639
Ion	Ratio	Lower	Upper
97	100		
83	78.9	69.7	104.5
85	50.5	47.4	71.2
99	61.5	53.8	80.6

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#56

Ethyl methacrylate

Concen: 13.16 ug/l

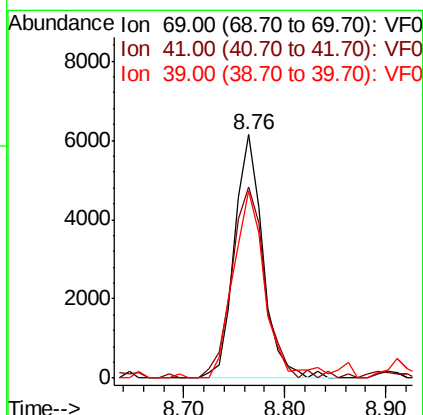
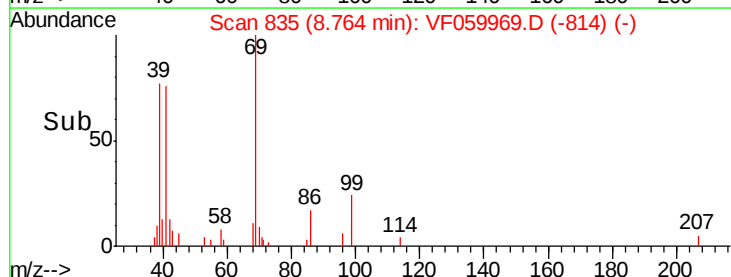
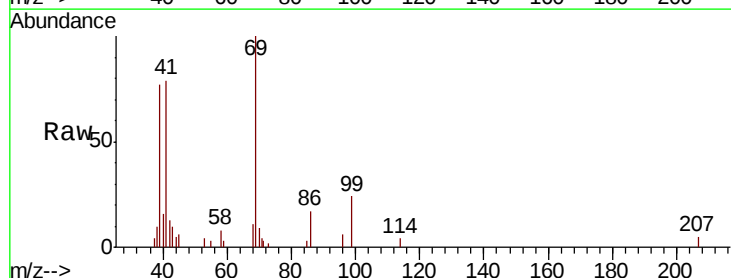
RT: 8.76 min Scan# 835

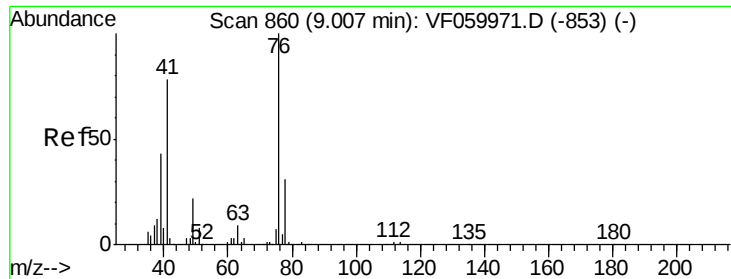
Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion:	69	Resp:	12007
Ion	Ratio	Lower	Upper
69	100		
41	78.7	65.6	98.4
39	76.8	58.1	87.1





#57

1,3-Dichloropropane

Concen: 13.93 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tot Ion: 76 Resp: 20824

Ion Ratio Lower Upper

76 100

78 31.9 24.7 37.1

Instrument :

MSVOA_F

ClientSampleId :

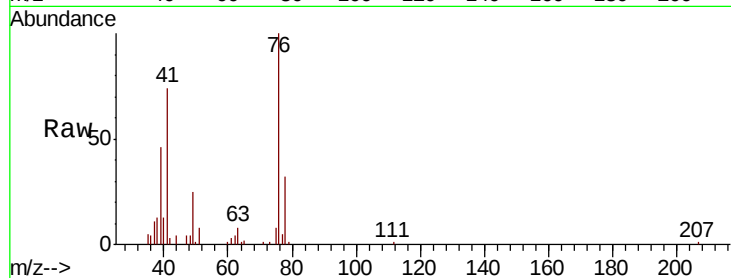
VSTDIC010

Manual Integrations

APPROVED

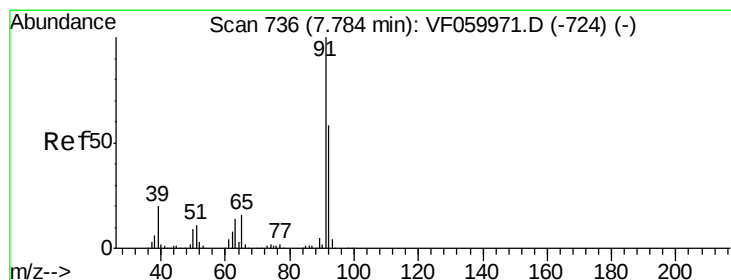
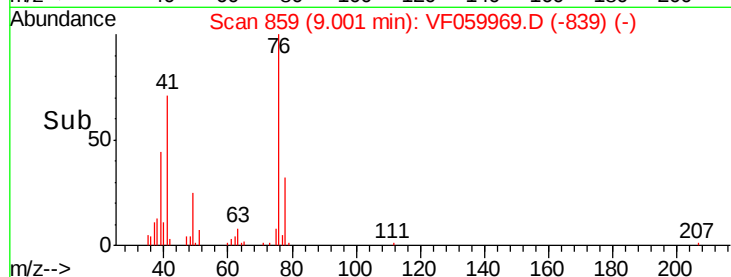
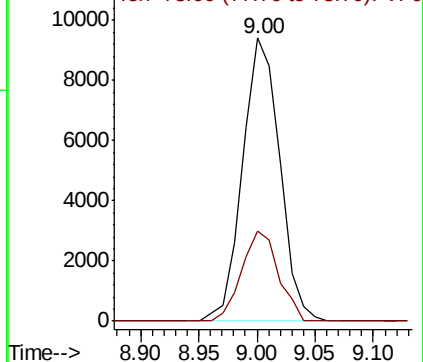
apatel

8/17/2018 11:23:29 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 57.05 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF059969.D

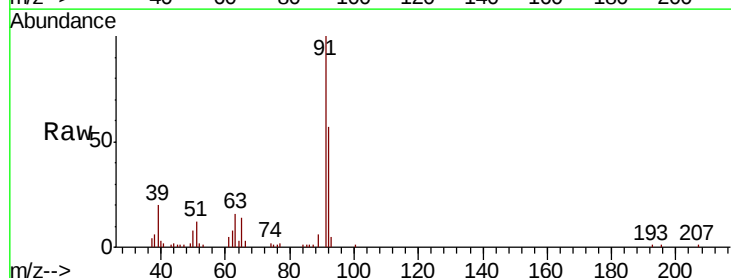
Acq: 16 Aug 2018 19:41

Tgt Ion: 63 Resp: 6343

Ion Ratio Lower Upper

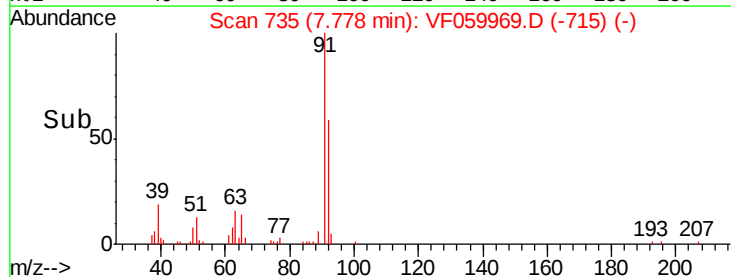
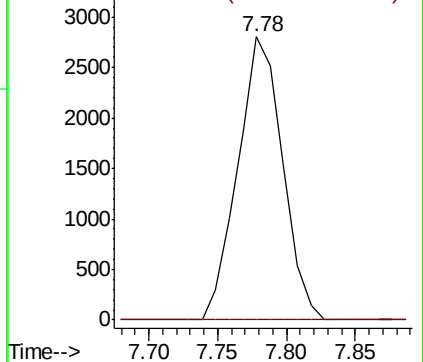
63 100

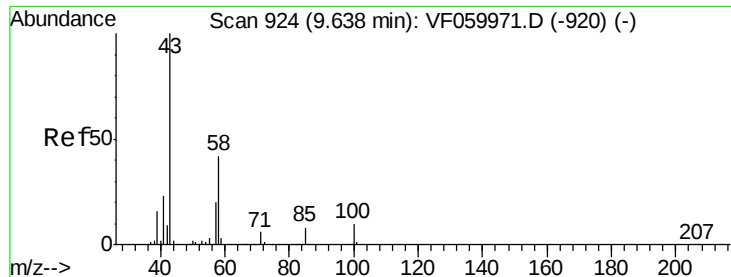
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





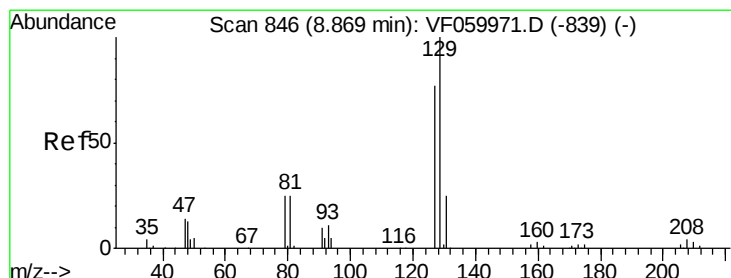
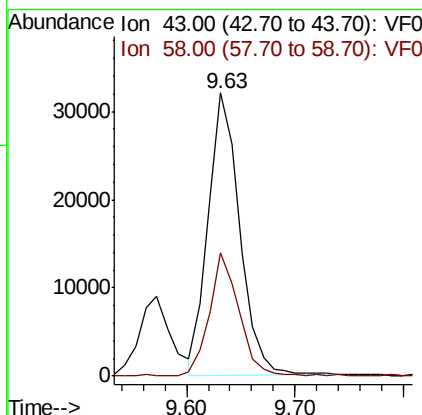
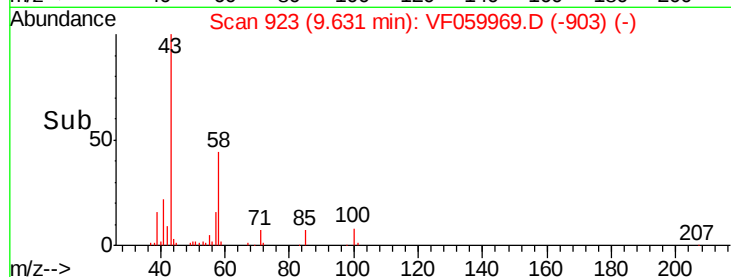
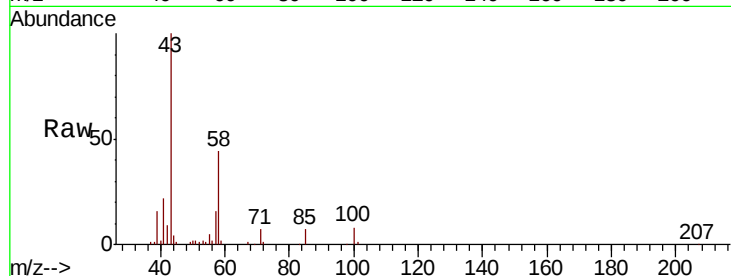
#59
2-Hexanone
Concen: 95.52 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.7	19.8	59.3

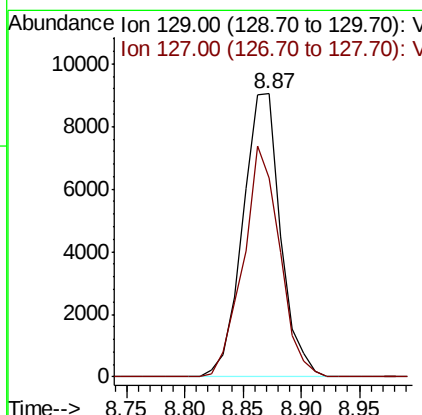
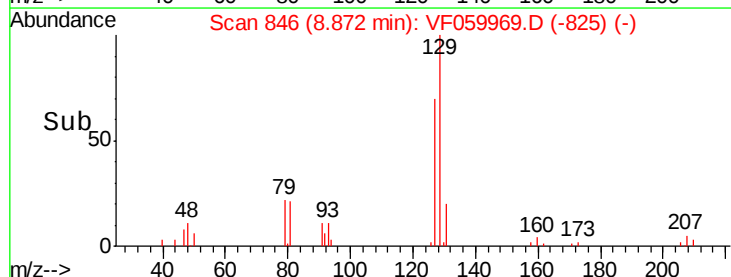
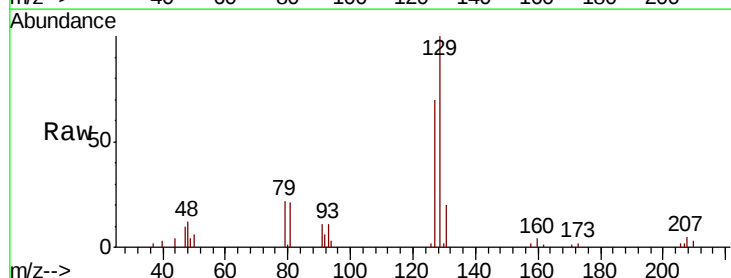
Manual Integrations
APPROVED

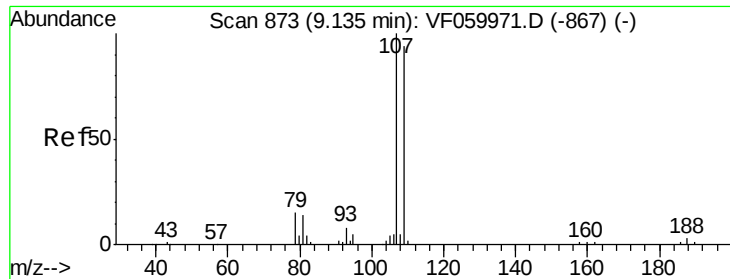
apatel
8/17/2018 11:23:29 AM



#60
Dibromochloromethane
Concen: 12.88 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.00 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
129	100		
127	70.1	38.4	115.2





#61

1,2-Dibromoethane

Concen: 14.65 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:107 Resp: 15127

Ion Ratio Lower Upper

107 100

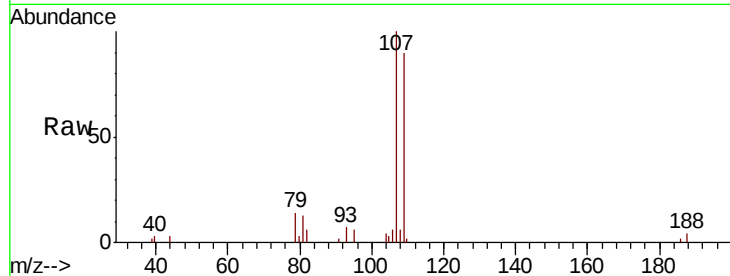
109 89.8 75.4 113.0

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8000

6000

4000

2000

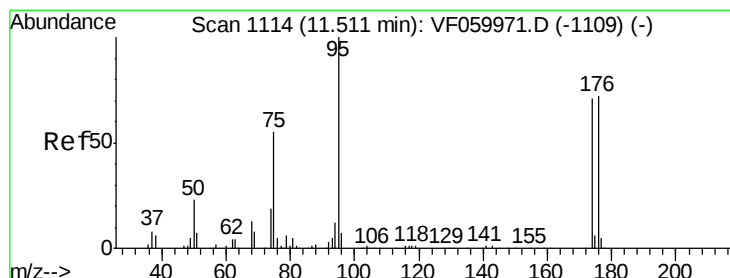
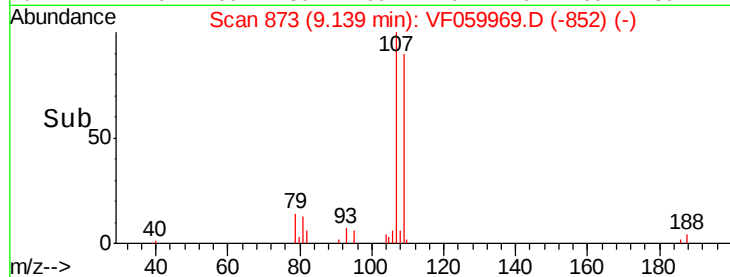
0

9.10

9.14

9.20

Time-->



#62

4-Bromofluorobenzene

Concen: 13.51 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

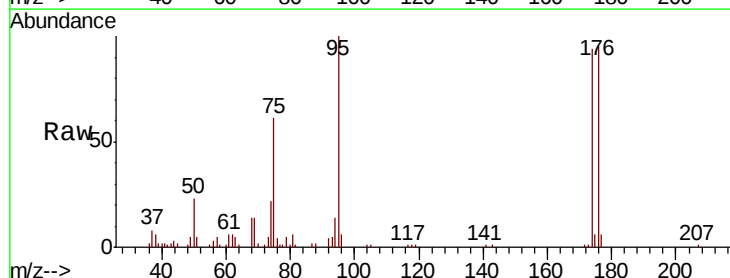
Tgt Ion: 95 Resp: 27377

Ion Ratio Lower Upper

95 100

174 93.6 0.0 142.8

176 95.0 0.0 143.4



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

20000

15000

10000

5000

0

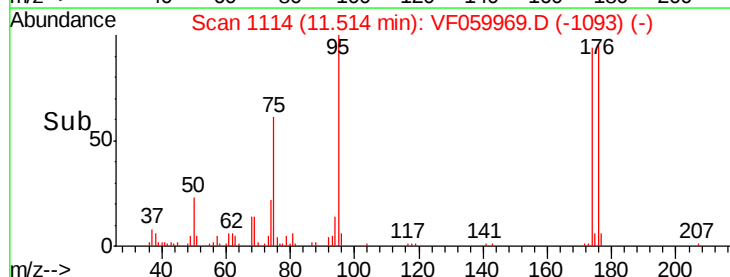
11.40

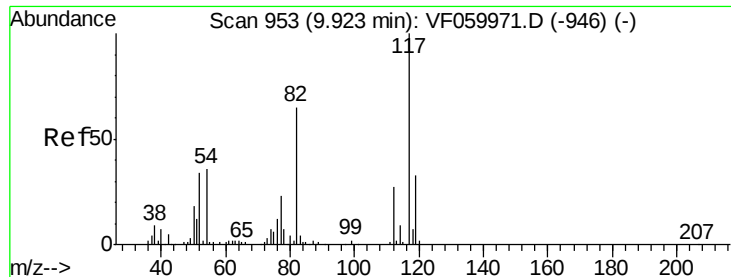
11.51

11.60

11.70

Time-->





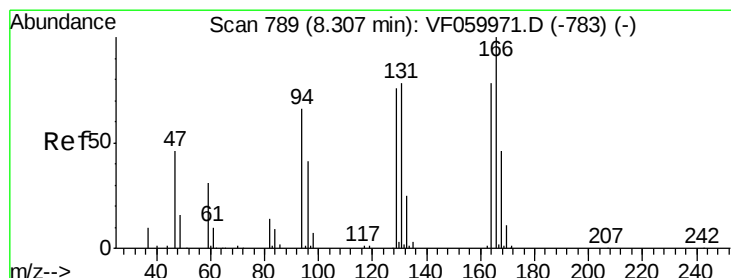
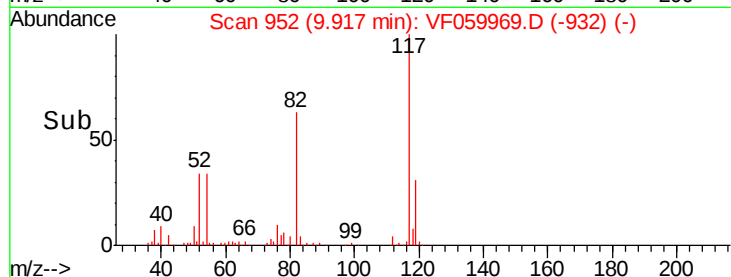
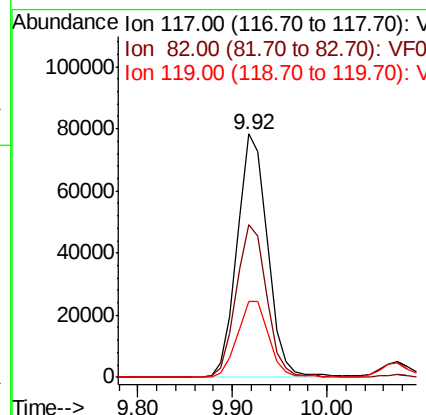
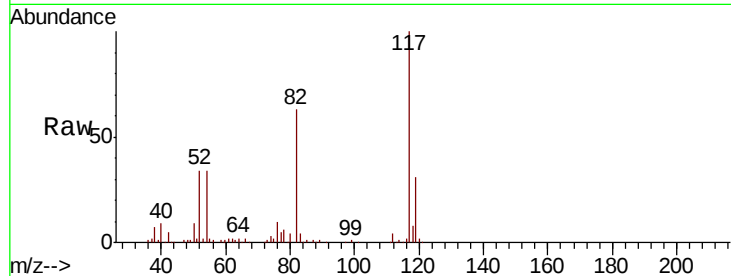
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.8	52.0	78.0
119	31.3	26.6	39.8

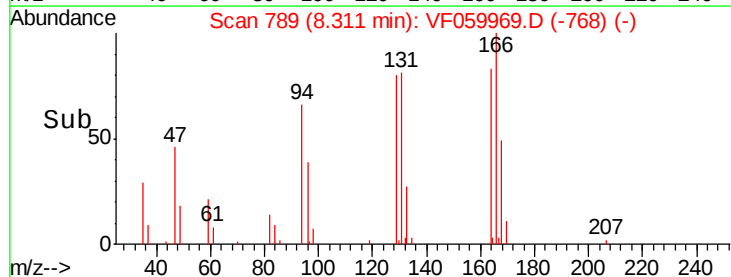
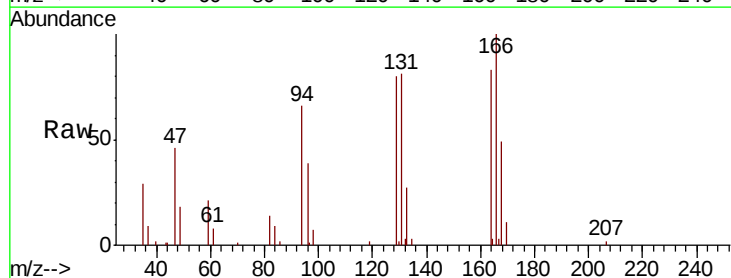
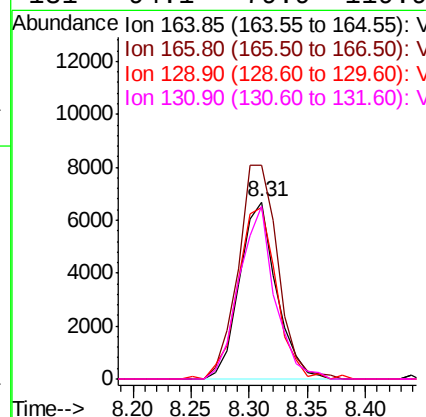
Manual Integrations
APPROVED

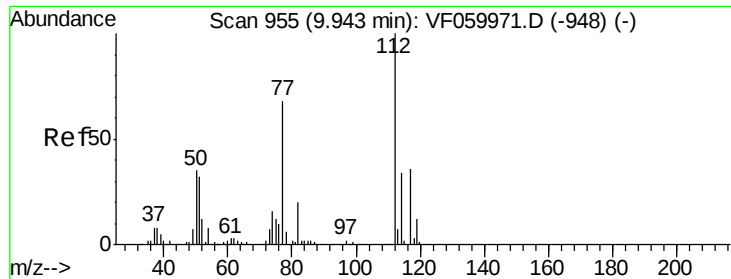
apatel
8/17/2018 11:23:29 AM



#64
Tetrachloroethene
Concen: 10.79 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.00 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	116.2	102.2	153.2
129	93.2	77.8	116.6
131	94.1	79.9	119.9





#65

Chlorobenzene

Concen: 11.18 ug/l

RT: 9.95 min Scan# 955

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:112 Resp: 37694

Ion Ratio Lower Upper

112 100

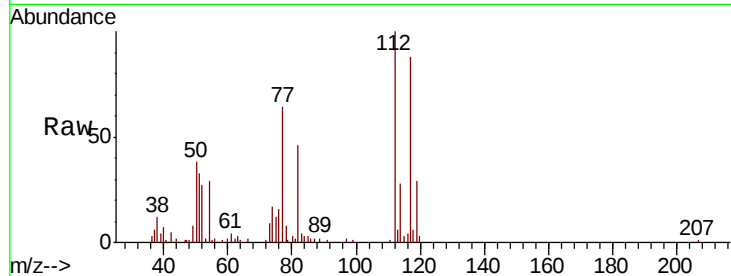
114 28.0 27.0 40.4

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

20000

15000

10000

5000

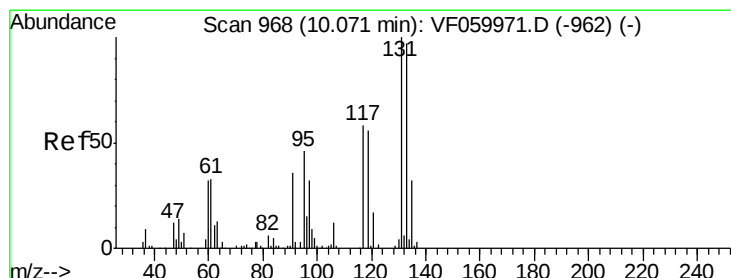
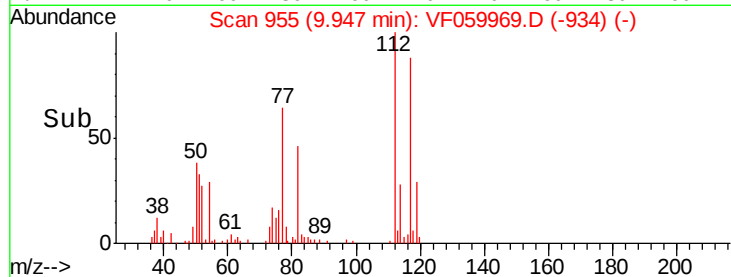
0

9.90

9.95

10.00

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 11.05 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

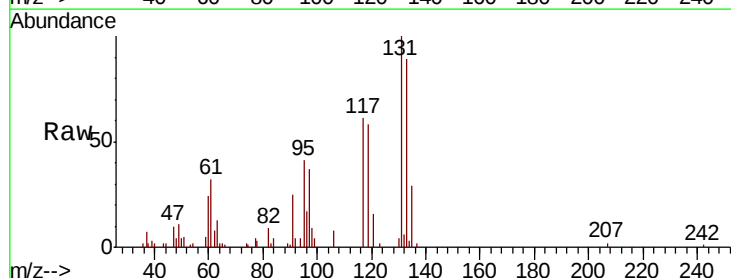
Tgt Ion:131 Resp: 17969

Ion Ratio Lower Upper

131 100

133 89.1 48.5 145.6

119 57.8 28.4 85.2



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

10000

8000

6000

4000

2000

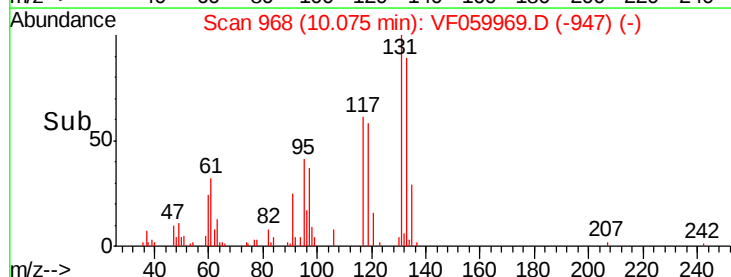
0

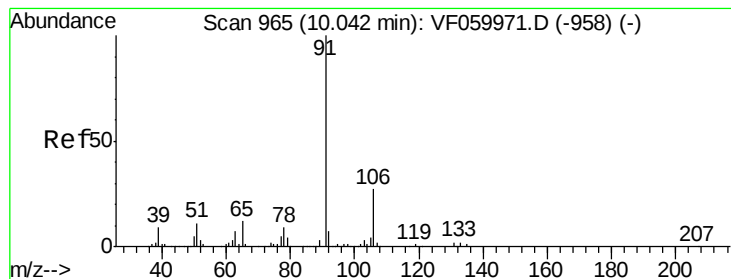
10.00

10.07

10.10

Time-->





#67

Ethyl Benzene

Concen: 11.70 ug/l

RT: 10.05 min Scan# 965

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 69831

Ion Ratio Lower Upper

91 100

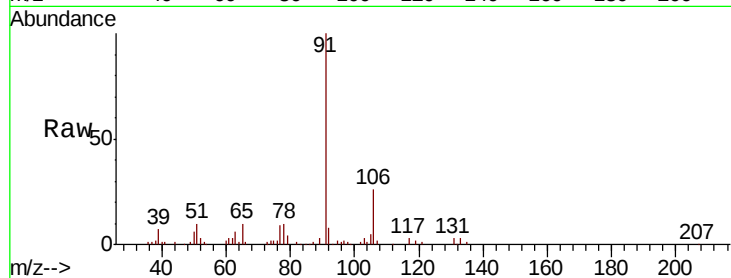
106 26.0 21.8 32.8

Manual Integrations

APPROVED

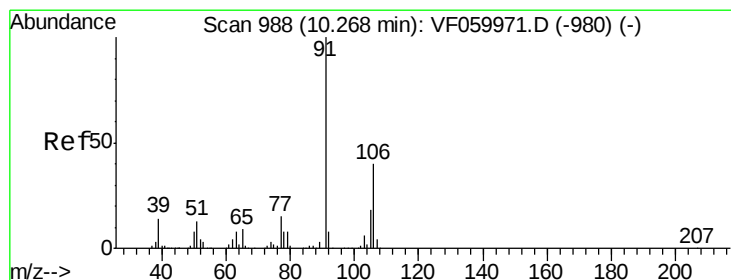
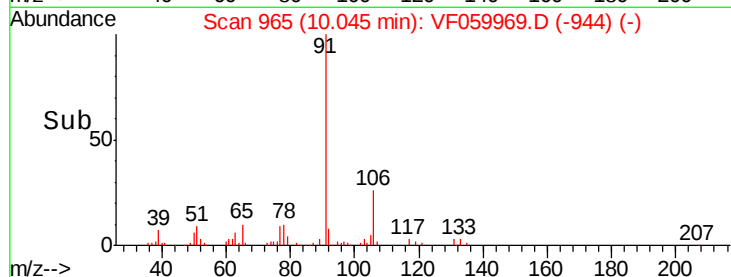
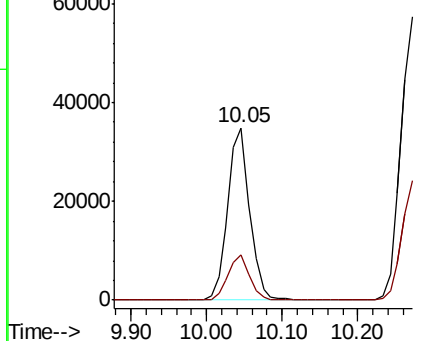
apatel

8/17/2018 11:23:29 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 22.98 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.00 min

Lab File: VF059969.D

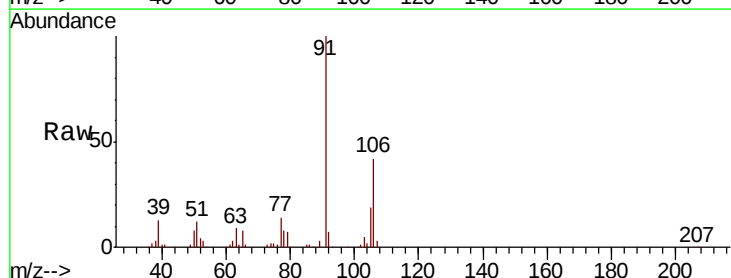
Acq: 16 Aug 2018 19:41

Tgt Ion:106 Resp: 46237

Ion Ratio Lower Upper

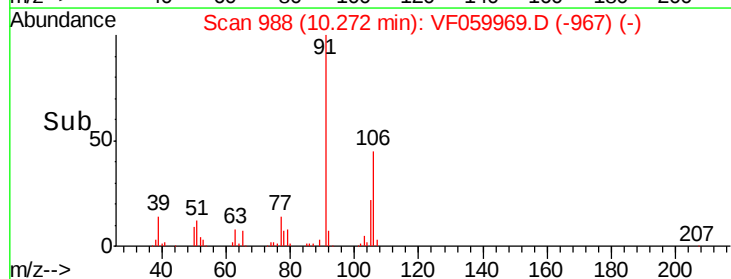
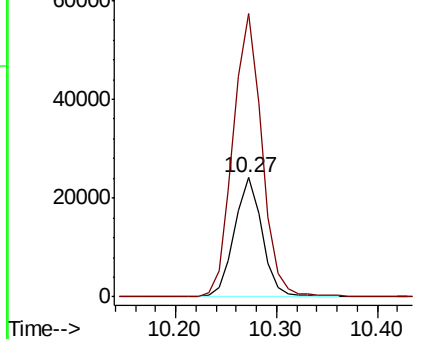
106 100

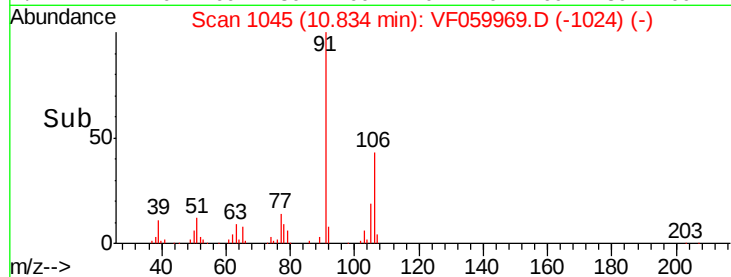
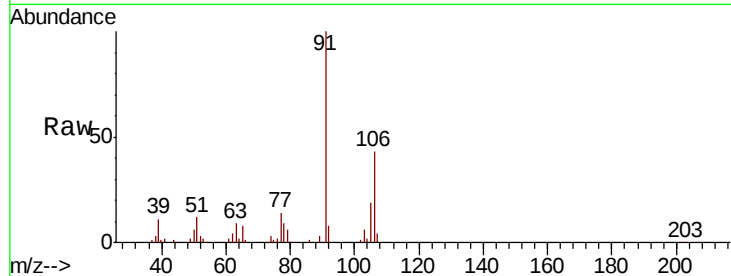
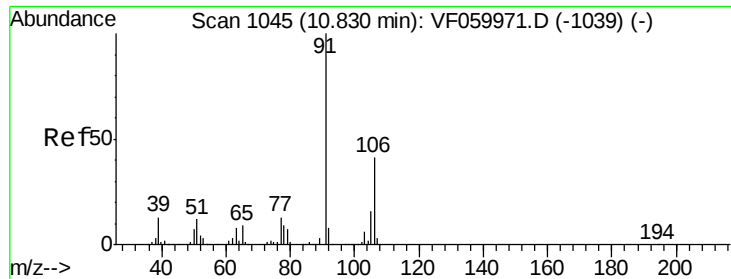
91 237.6 198.0 297.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





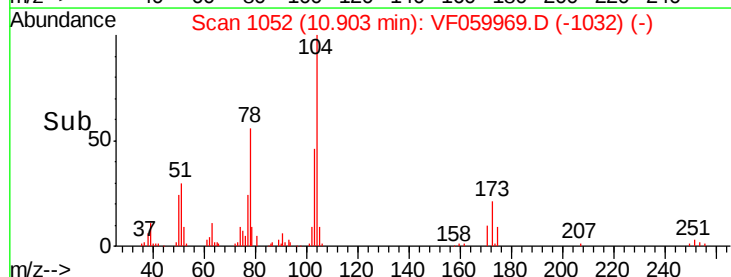
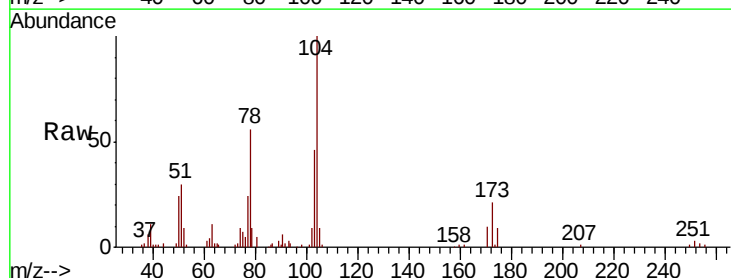
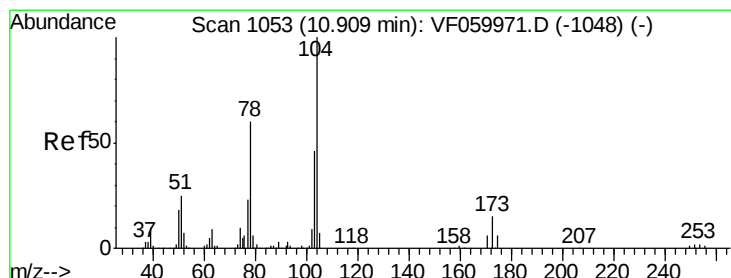
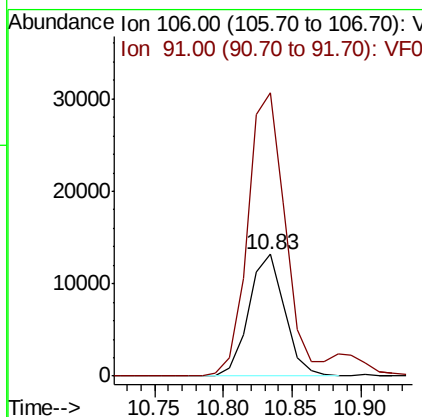
#69
o-Xylene
Concen: 10.95 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.00 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tot Ion:106 Resp: 23884
Ion Ratio Lower Upper
106 100
91 232.7 121.9 365.7

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

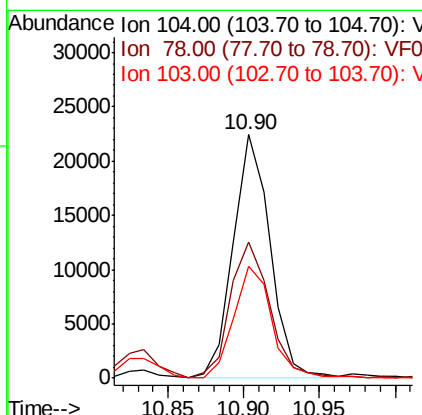
Manual Integrations
APPROVED

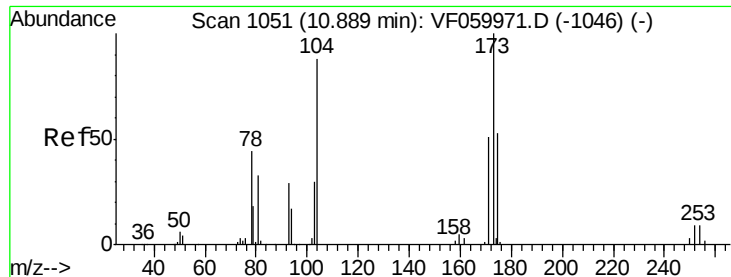
apatel
8/17/2018 11:23:29 AM



#70
Styrene
Concen: 11.64 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion:104 Resp: 38102
Ion Ratio Lower Upper
104 100
78 56.1 49.0 73.4
103 45.8 37.5 56.3





#71

Bromoform

Concen: 13.02 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:173 Resp: 13973

Ion Ratio Lower Upper

173 100

175 48.0 26.3 78.8

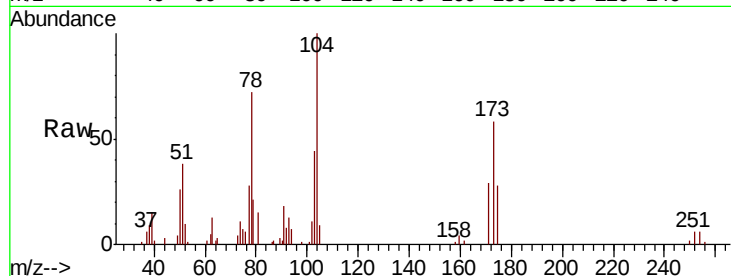
254 0.0 0.0 0.0

Manual Integrations

APPROVED

apatel

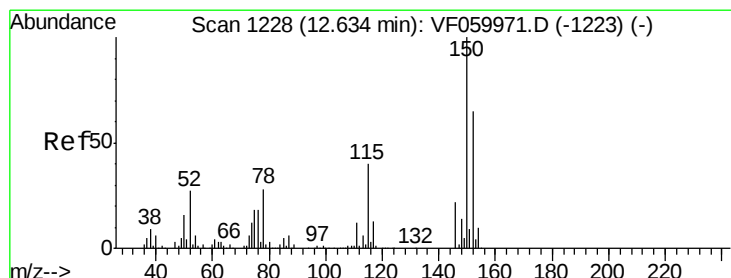
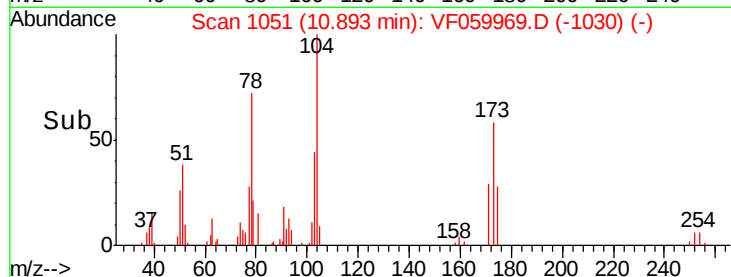
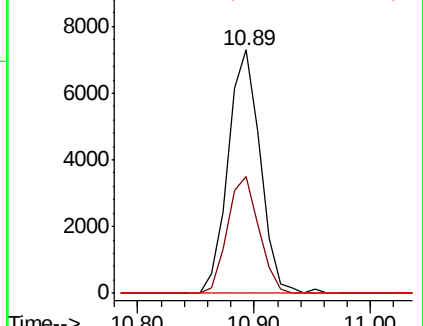
8/17/2018 11:23:29 AM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

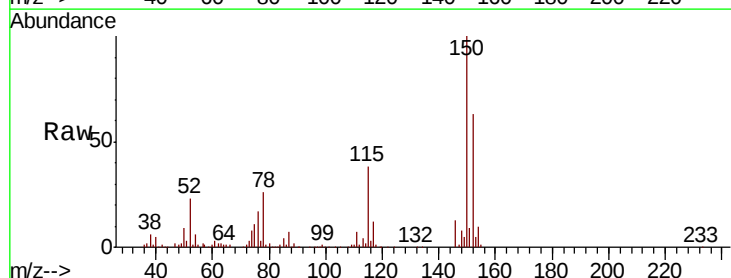
Tgt Ion:152 Resp: 125767

Ion Ratio Lower Upper

152 100

115 60.9 30.6 92.0

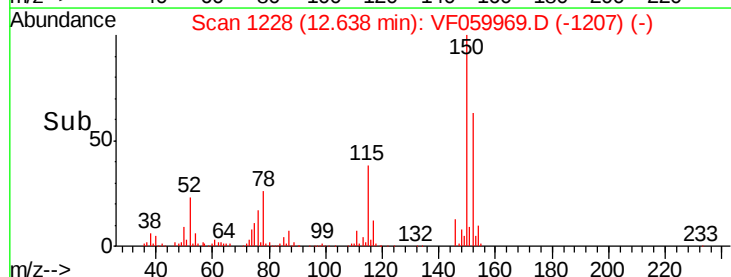
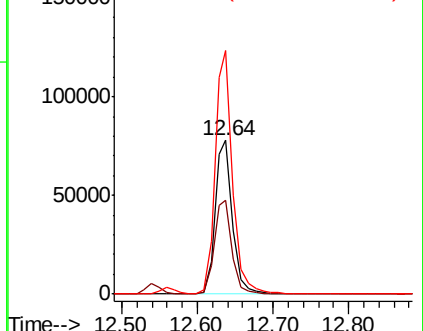
150 158.7 0.0 308.2

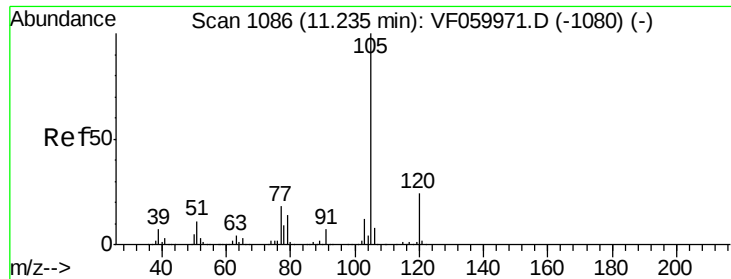


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 9.59 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampled :

VSTDIC010

Tot Ion: 105 Resp: 74602

Ion Ratio Lower Upper

105 100

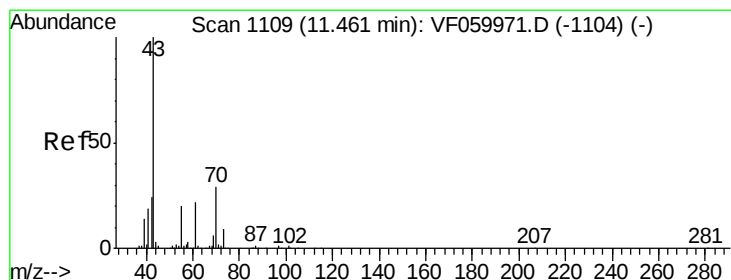
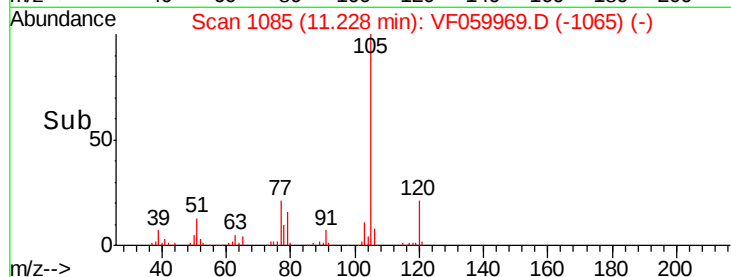
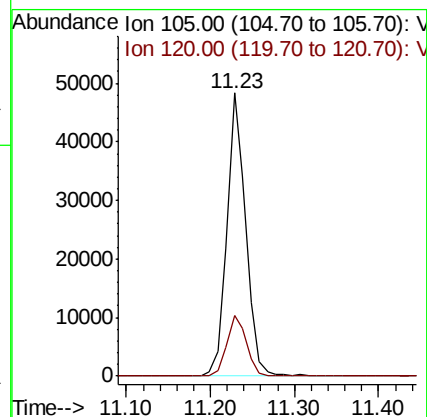
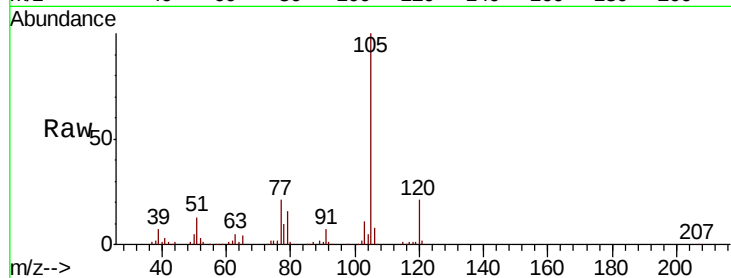
120 21.3 11.9 35.5

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#74

N-ethyl acetate

Concen: 13.30 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion: 43 Resp: 25061

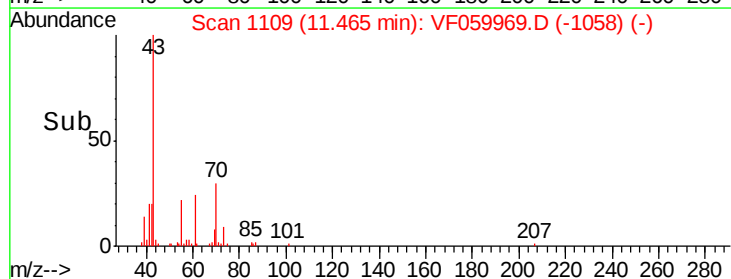
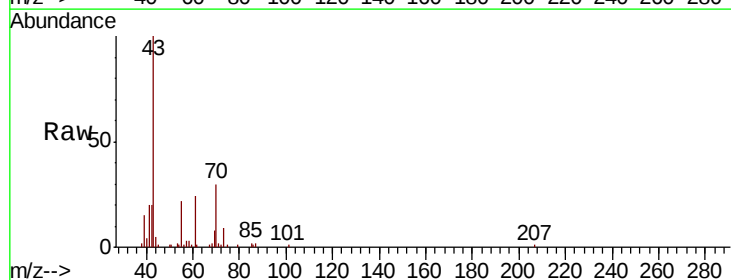
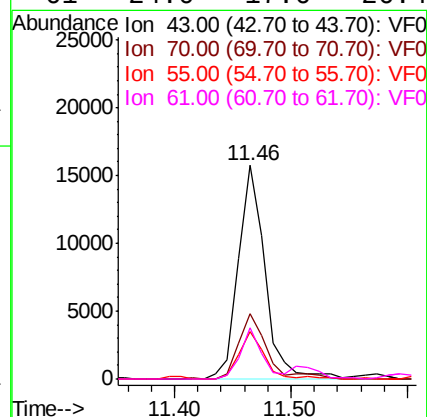
Ion Ratio Lower Upper

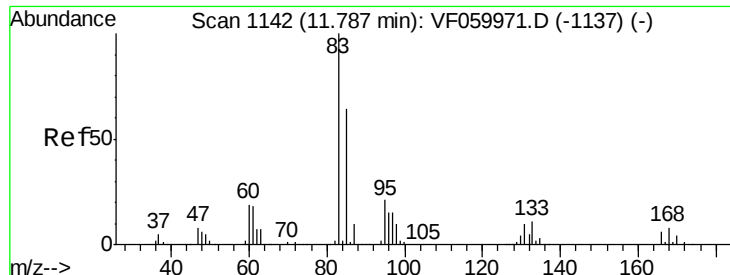
43 100

70 30.4 23.2 34.8

55 22.3 15.8 23.8

61 24.0 17.6 26.4





#75

1,1,2,2-Tetrachloroethane

Concen: 13.38 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

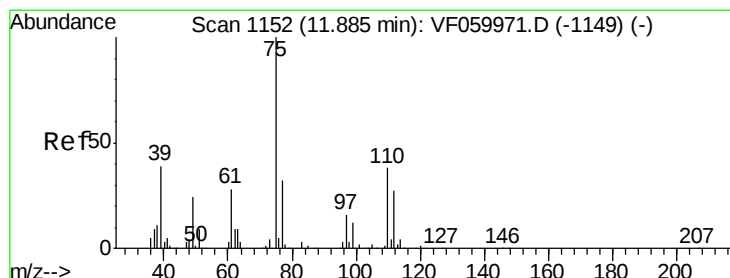
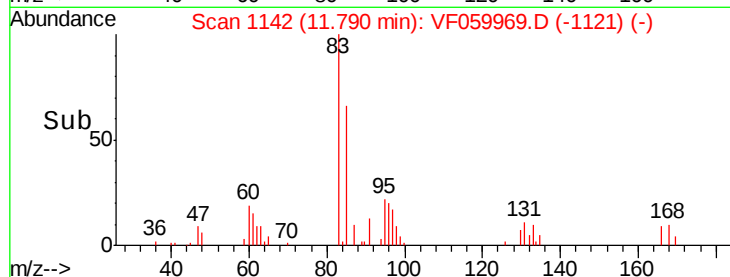
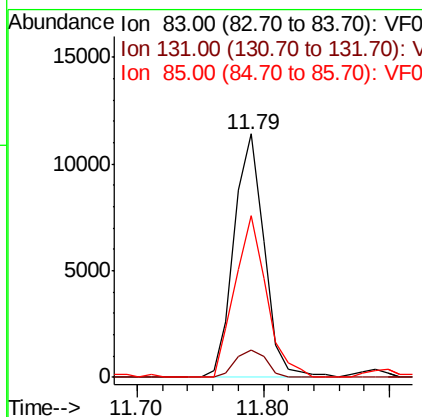
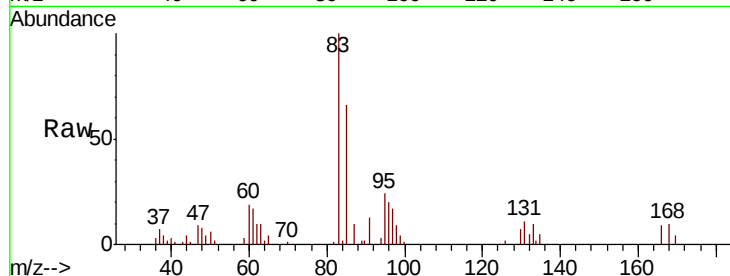
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	18842
Ion Ratio	Lower	Upper	
83	100		
131	11.5	5.1	15.4
85	66.2	32.3	96.9

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#76

1,2,3-Trichloropropane

Concen: 13.76 ug/l

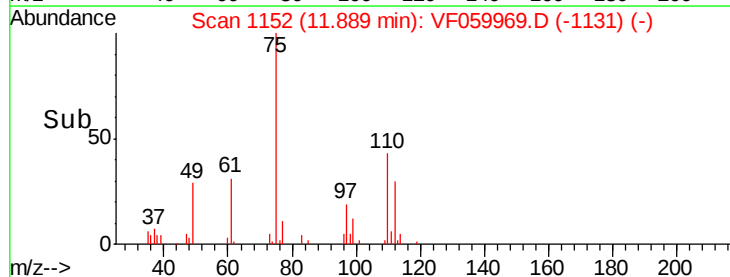
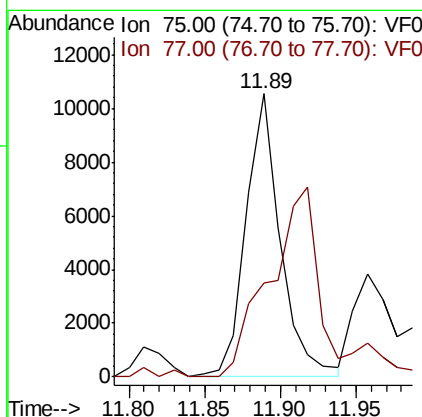
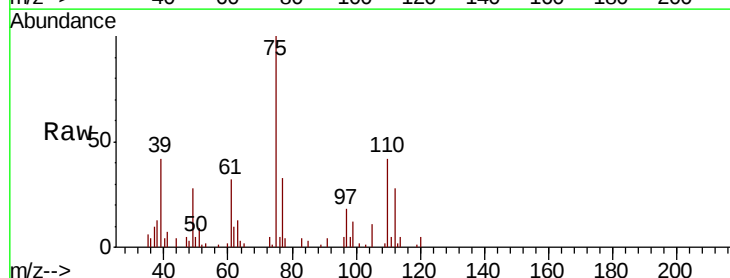
RT: 11.89 min Scan# 1152

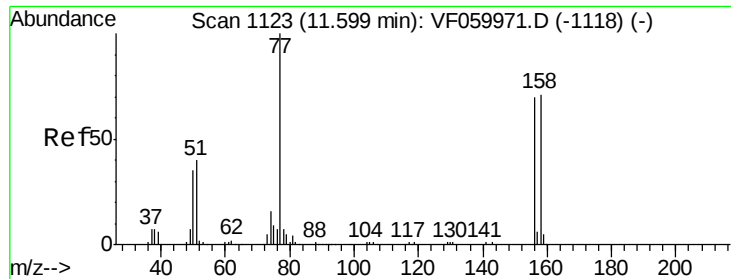
Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion:	75	Resp:	16796
Ion Ratio	Lower	Upper	
75	100		
77	33.4	16.2	48.5





#77

Bromobenzene

Concen: 10.50 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:156 Resp: 21797

Ion Ratio Lower Upper

156 100

77 162.9 71.9 215.6

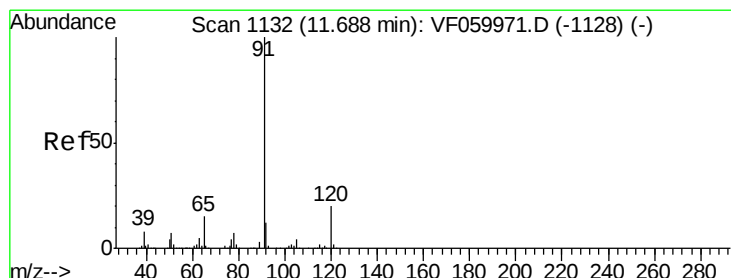
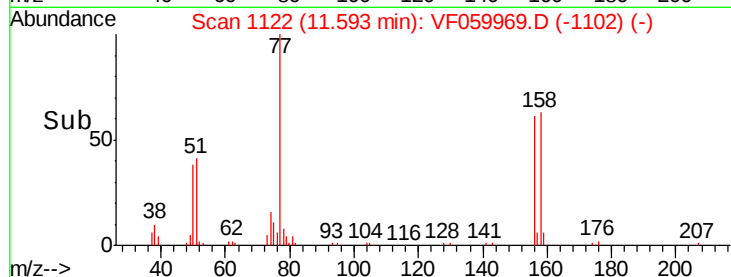
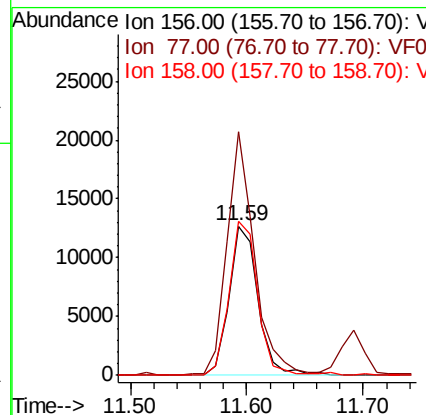
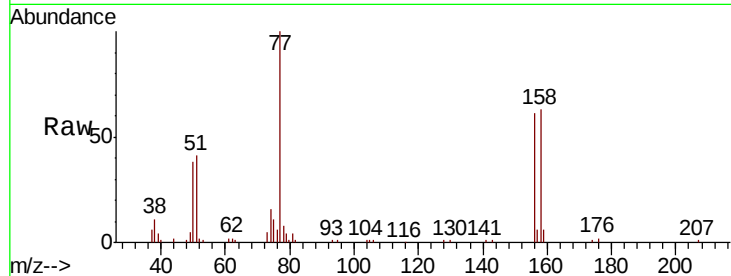
158 102.7 51.2 153.6

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#78

n-propylbenzene

Concen: 10.60 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF059969.D

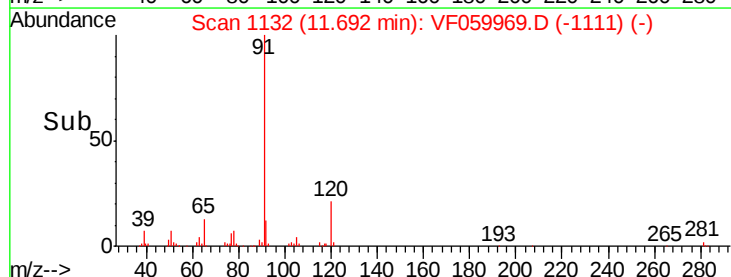
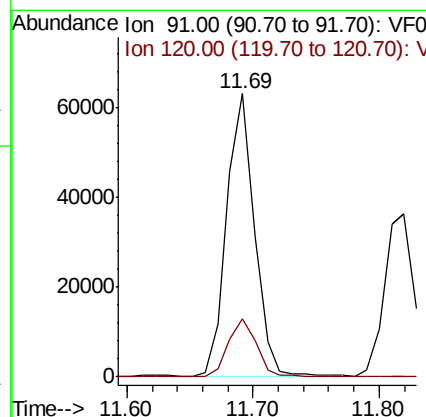
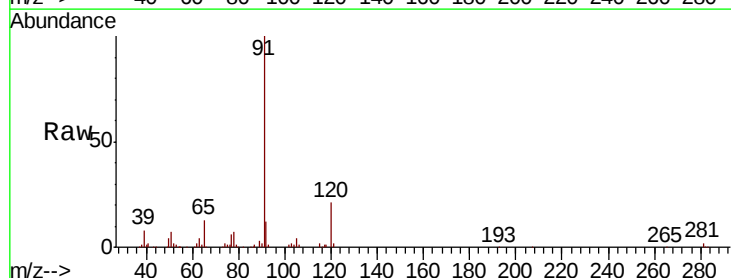
Acq: 16 Aug 2018 19:41

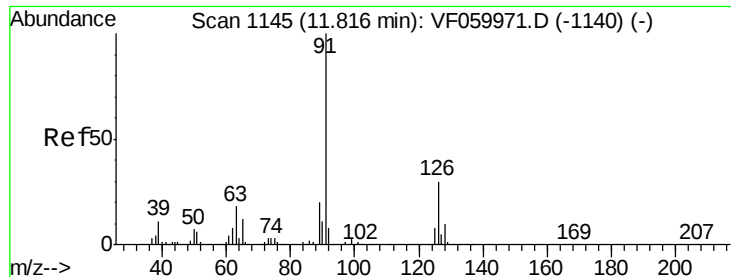
Tgt Ion: 91 Resp: 97136

Ion Ratio Lower Upper

91 100

120 20.7 10.2 30.6





#79

2-Chlorotoluene

Concen: 10.24 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 58996

Ion Ratio Lower Upper

91 100

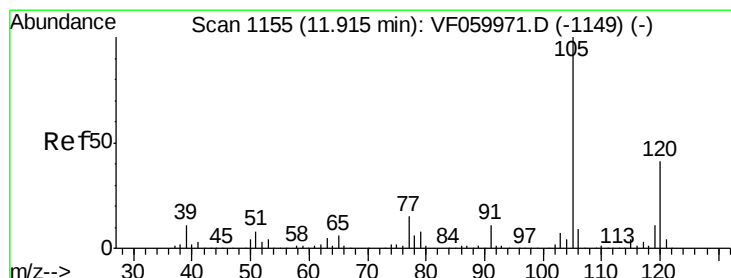
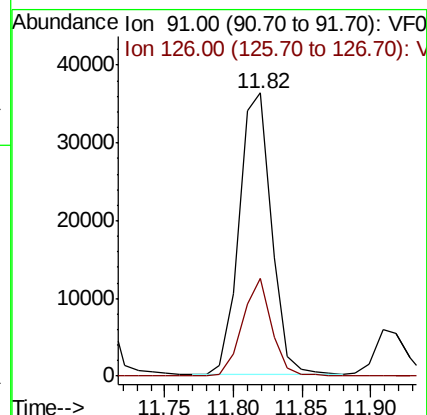
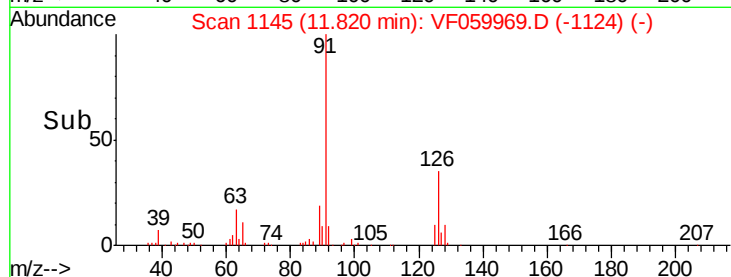
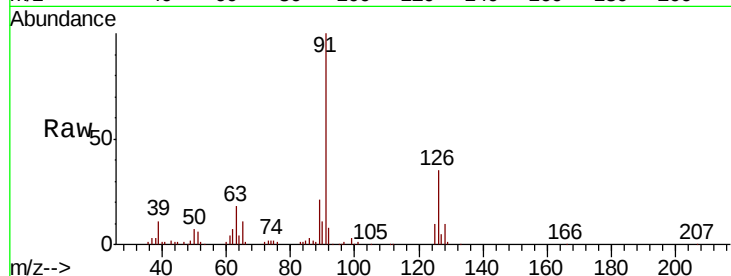
126 34.7 14.9 44.9

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#80

1,3,5-Trimethylbenzene

Concen: 9.79 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. 0.00 min

Lab File: VF059969.D

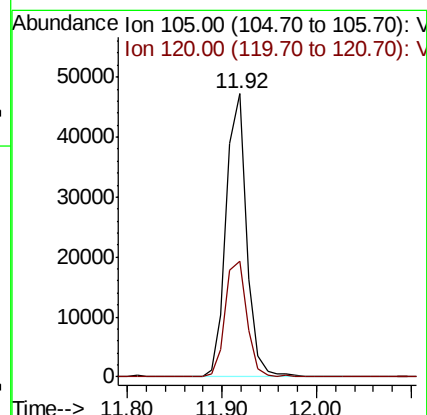
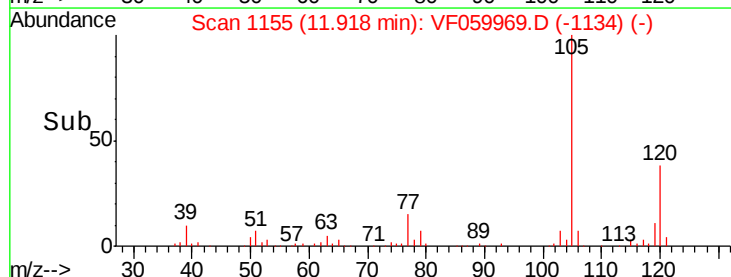
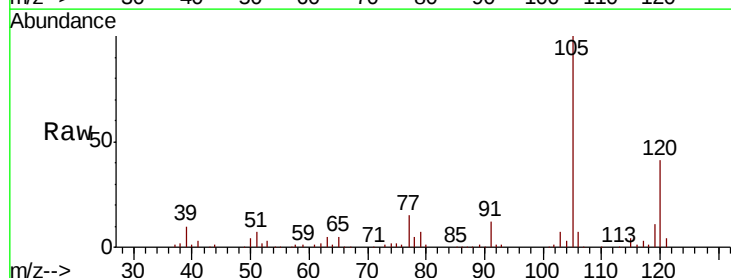
Acq: 16 Aug 2018 19:41

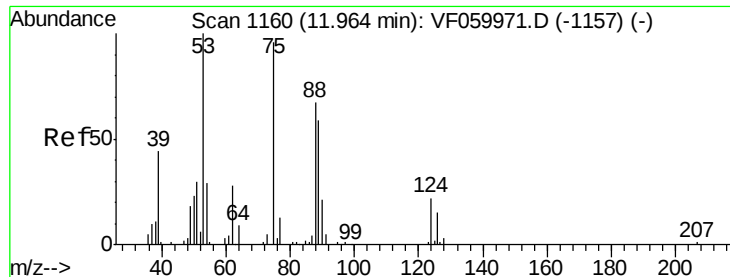
Tgt Ion: 105 Resp: 70973

Ion Ratio Lower Upper

105 100

120 40.7 20.6 61.8





#81

trans-1,4-Dichloro-2-butene

Concen: 12.38 ug/l m

RT: 11.96 min Scan# 1159

Delta R.T. -0.01 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 75 Resp: 6322

Ion Ratio Lower Upper

75 100

53 122.9 85.1 127.7

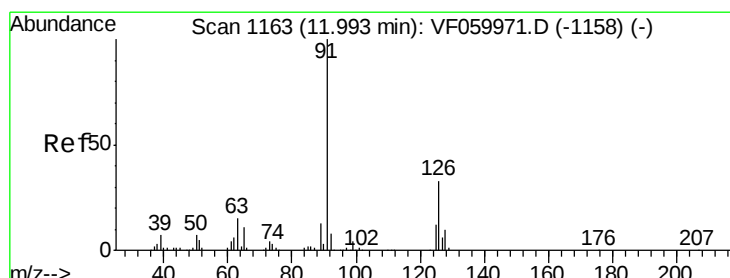
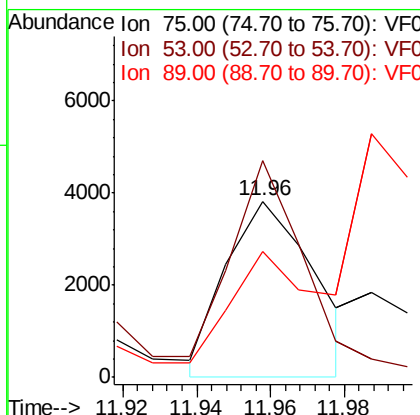
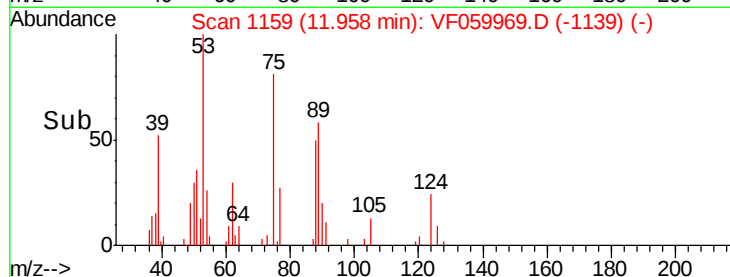
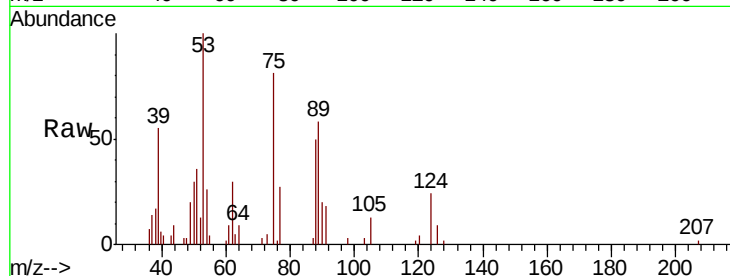
89 71.3 50.2 75.4

Manual Integrations

APPROVED

apatel

8/17/2018 11:23:29 AM



#82

4-Chlorotoluene

Concen: 10.30 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. -0.01 min

Lab File: VF059969.D

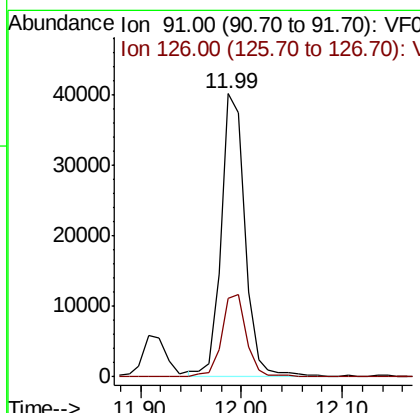
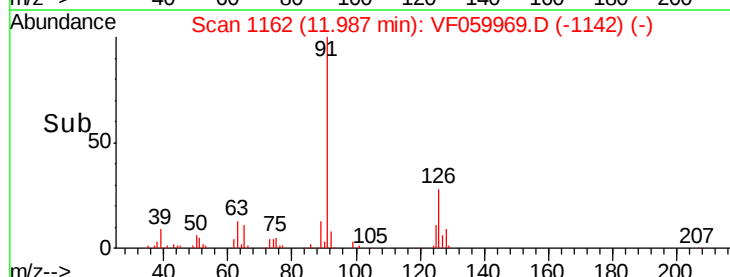
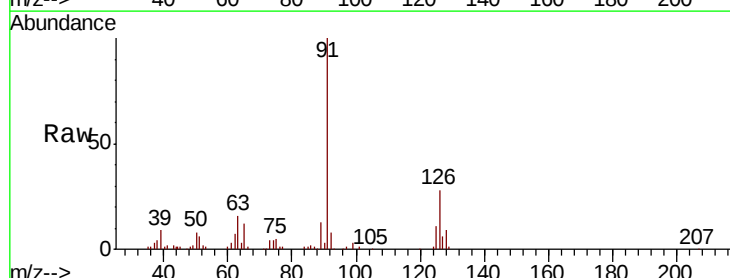
Acq: 16 Aug 2018 19:41

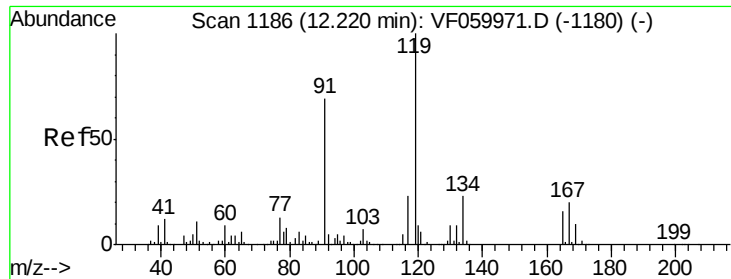
Tgt Ion: 91 Resp: 65665

Ion Ratio Lower Upper

91 100

126 27.7 16.4 49.2





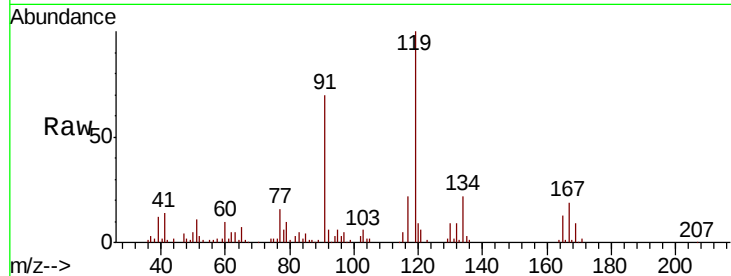
#83
tert-Butylbenzene
Concen: 9.53 ug/l
RT: 12.21 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

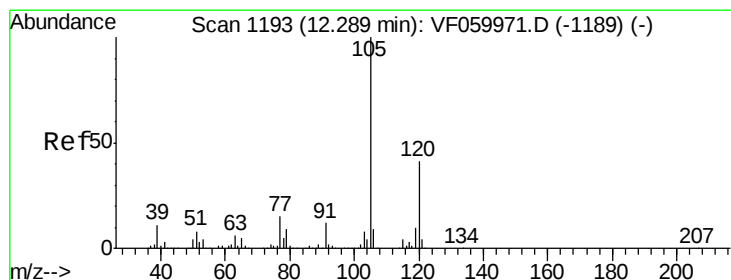
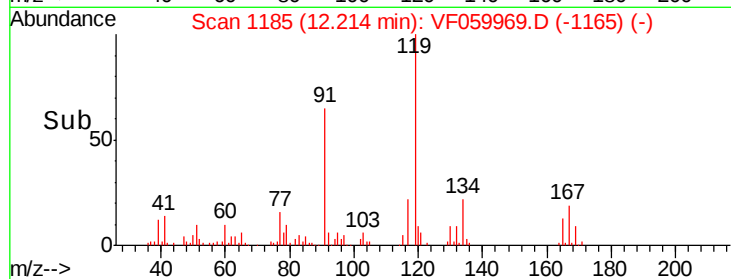
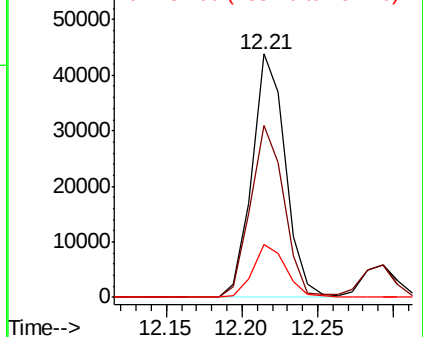
Tot Ion	Ratio	Lower	Upper
119	100		
91	70.5	34.8	104.3
134	21.8	11.5	34.4

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM

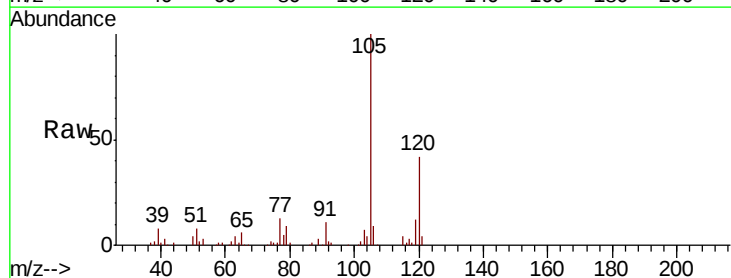


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

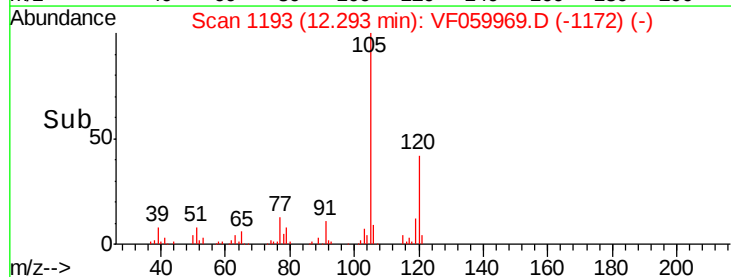
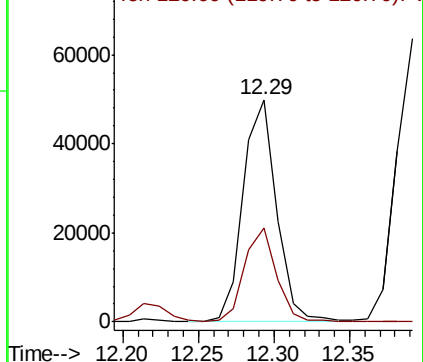


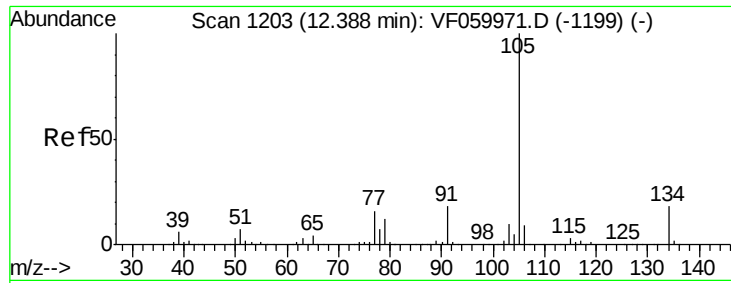
#84
1,2,4-Trimethylbenzene
Concen: 10.55 ug/l
RT: 12.29 min Scan# 1193
Delta R.T. 0.00 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.1	20.6	61.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





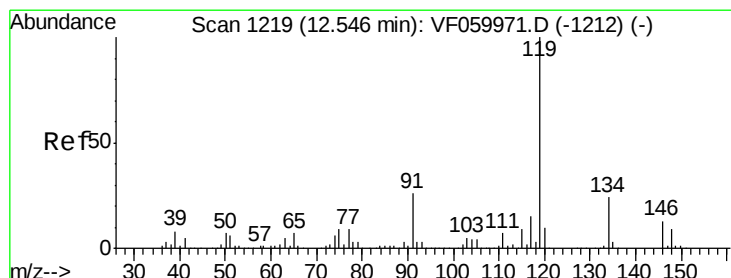
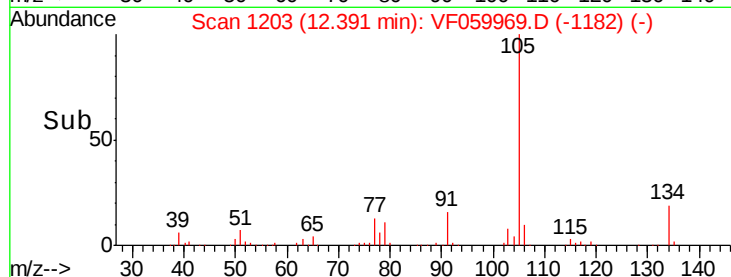
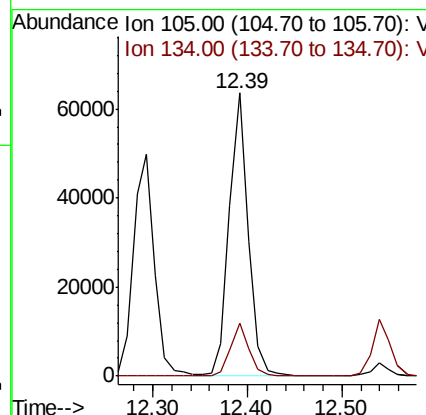
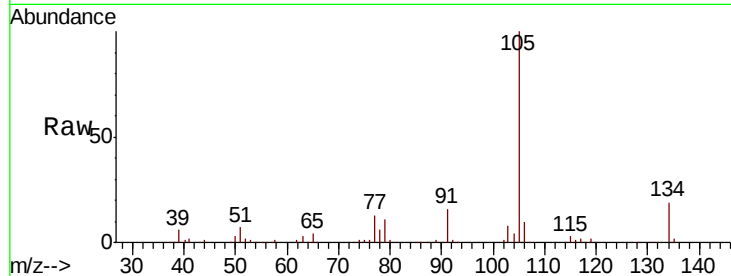
#85
 sec-Butylbenzene
 Concen: 9.87 ug/l
 RT: 12.39 min Scan# 1203
 Delta R.T. 0.00 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.6	8.9	26.7

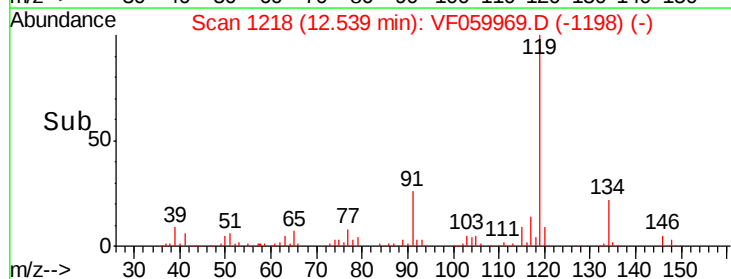
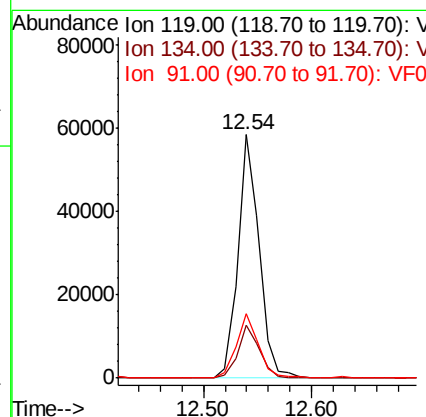
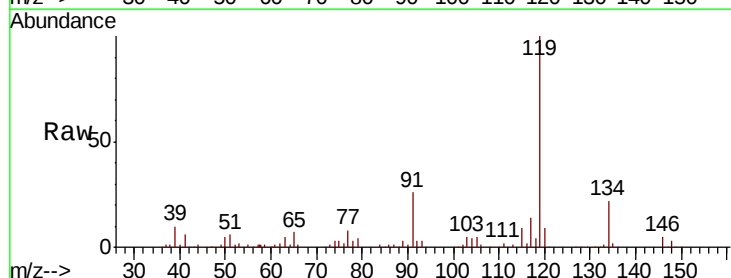
Manual Integrations
 APPROVED

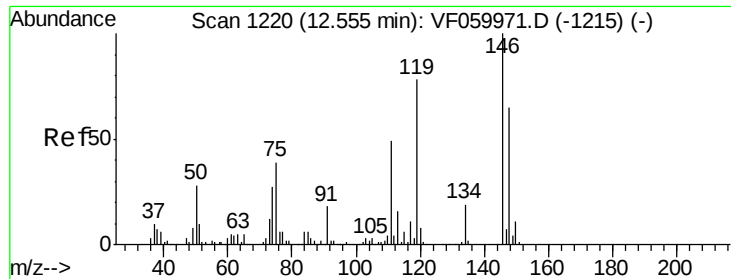
apatel
 8/17/2018 11:23:29 AM



#86
 p-Isopropyltoluene
 Concen: 9.98 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
119	100		
134	21.8	12.0	36.1
91	26.4	13.1	39.1





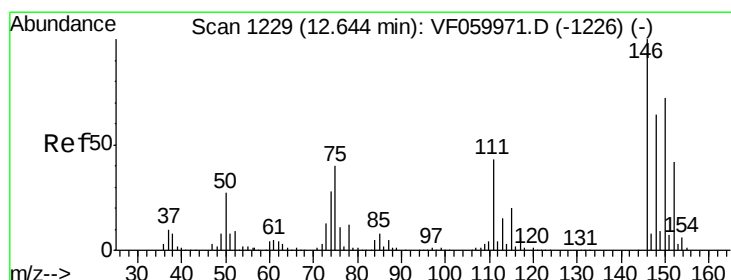
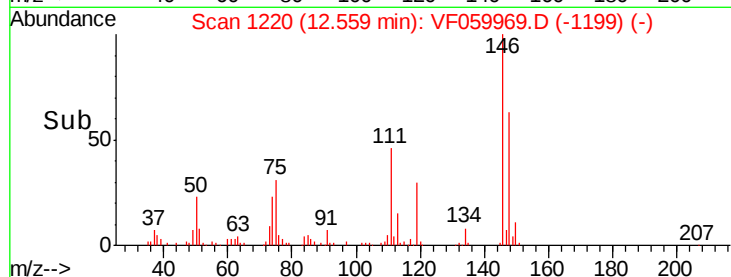
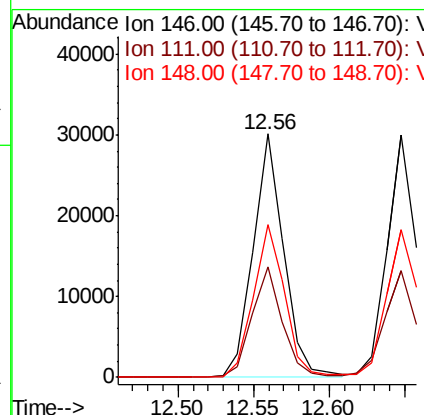
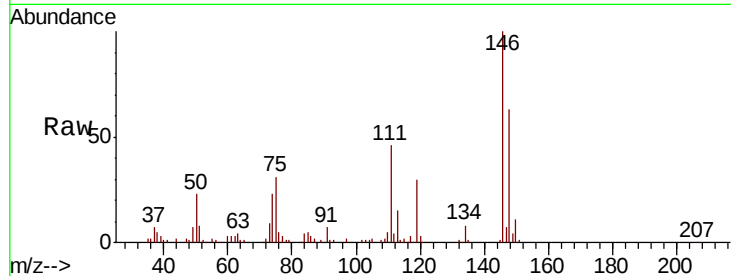
#87
 1,3-Dichlorobenzene
 Concen: 10.92 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.5	24.4	73.2
148	63.0	32.3	96.8

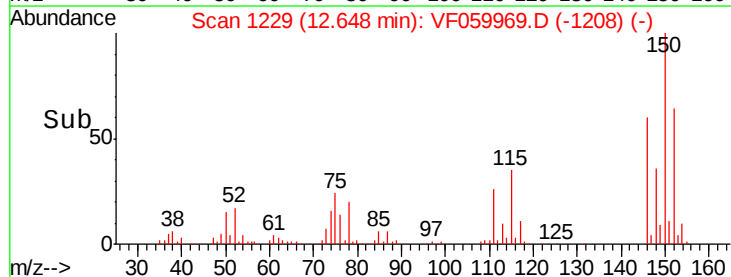
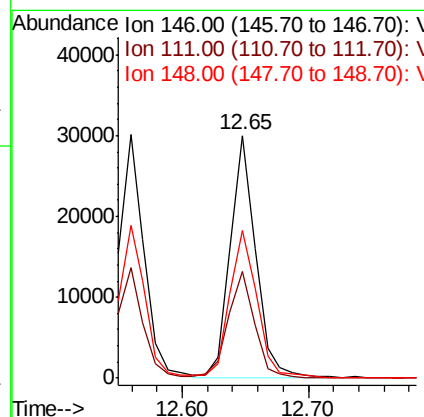
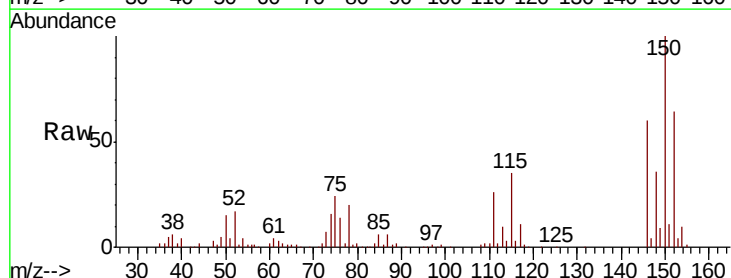
Manual Integrations
 APPROVED

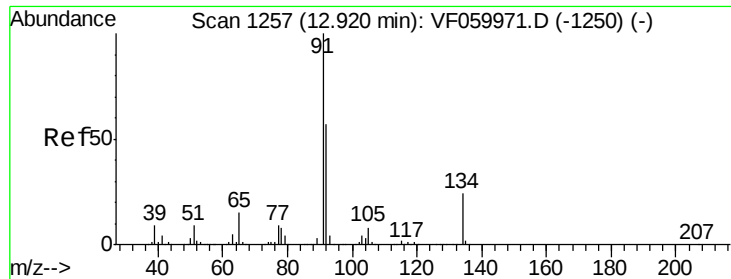
apatel
 8/17/2018 11:23:29 AM



#88
 1,4-Dichlorobenzene
 Concen: 10.97 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.2
148	61.0	31.9	95.7





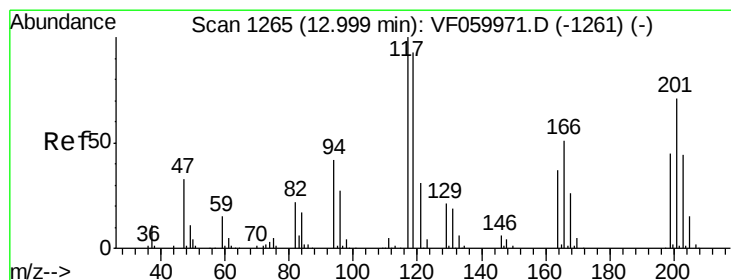
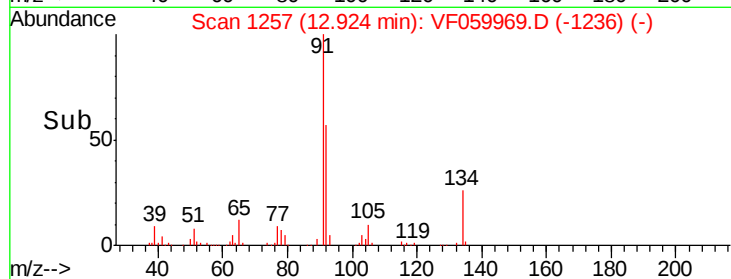
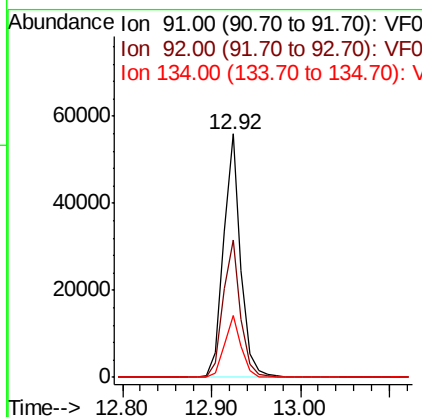
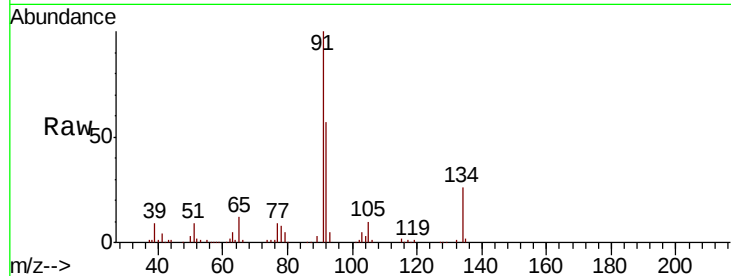
#89
n-Butylbenzene
Concen: 9.88 ug/l
RT: 12.92 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.6	28.3	85.0
134	25.7	11.9	35.7

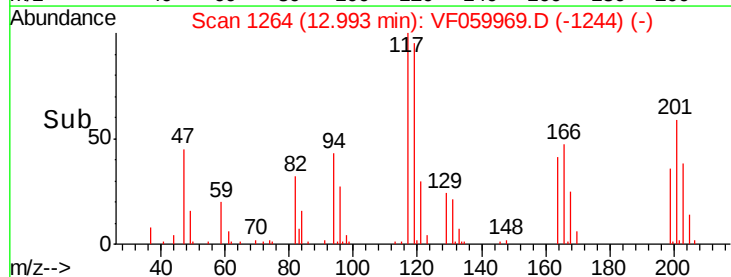
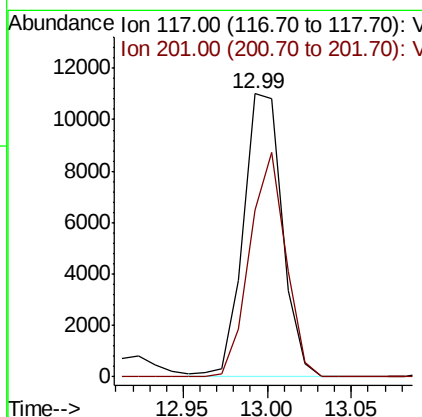
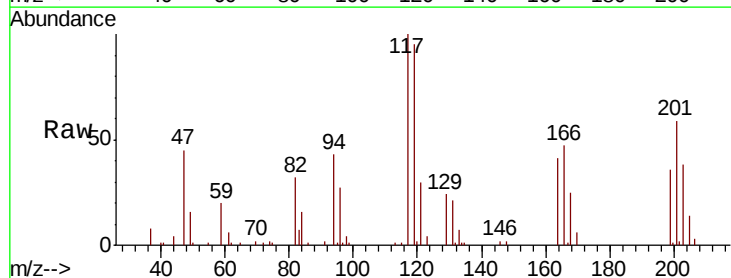
Manual Integrations
APPROVED

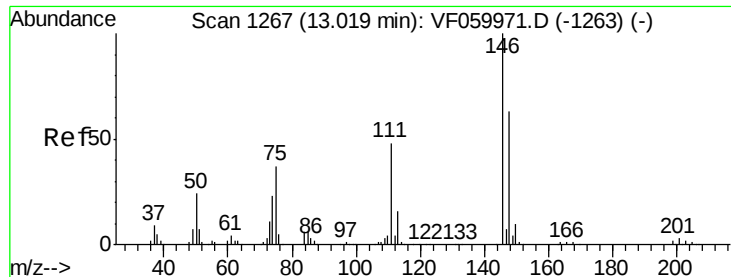
apatel
8/17/2018 11:23:29 AM



#90
Hexachloroethane
Concen: 9.02 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
117	100		
201	58.8	35.3	105.7





#91

1,2-Dichlorobenzene

Concen: 11.07 ug/l

RT: 13.02 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Instrument :

MSVOA_F

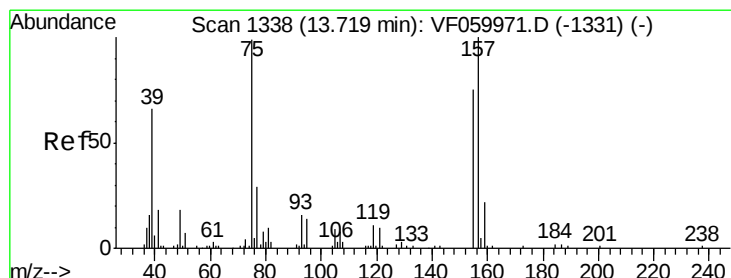
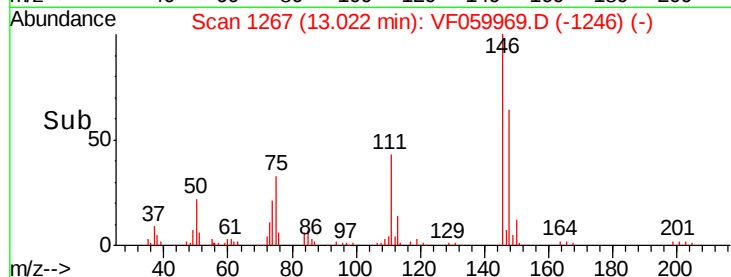
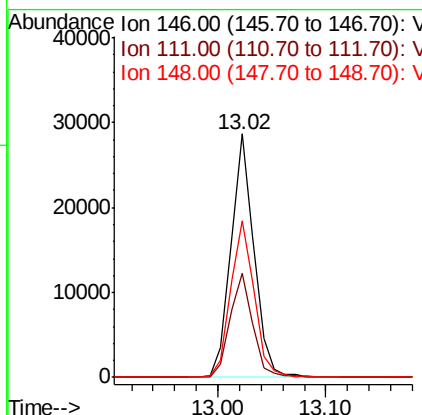
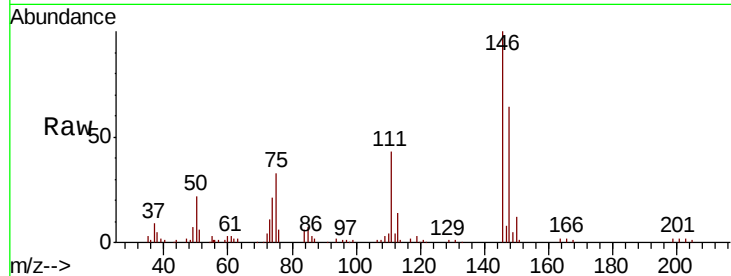
ClientSampleId :

VSTDIC010

Tot Ion:	146	Resp:	42529
Ion Ratio	Lower	Upper	
146	100		
111	43.0	23.9	71.8
148	64.4	31.4	94.3

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 16.26 ug/l

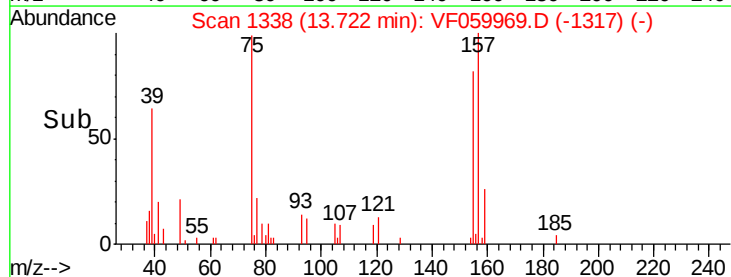
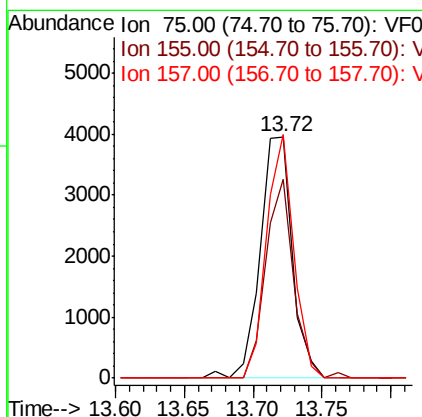
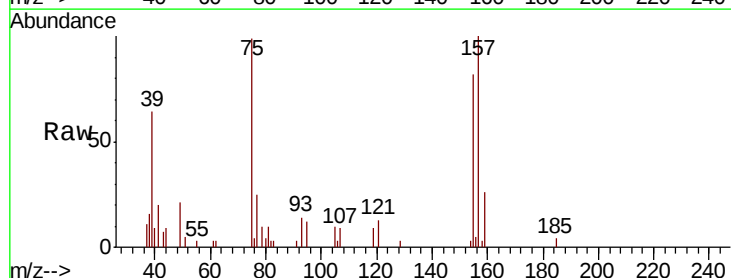
RT: 13.72 min Scan# 1338

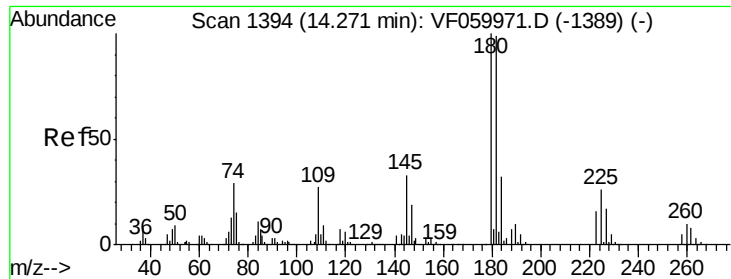
Delta R.T. 0.00 min

Lab File: VF059969.D

Acq: 16 Aug 2018 19:41

Tgt Ion:	75	Resp:	6455
Ion Ratio	Lower	Upper	
75	100		
155	82.3	38.0	114.0
157	100.9	50.6	151.8





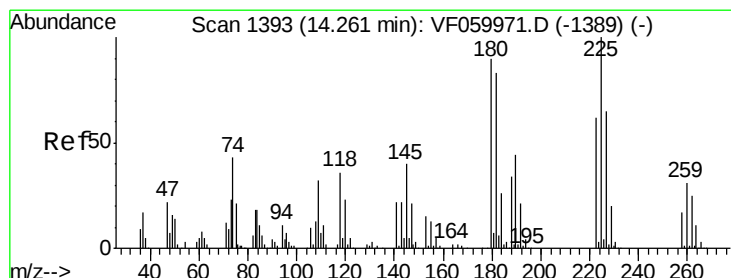
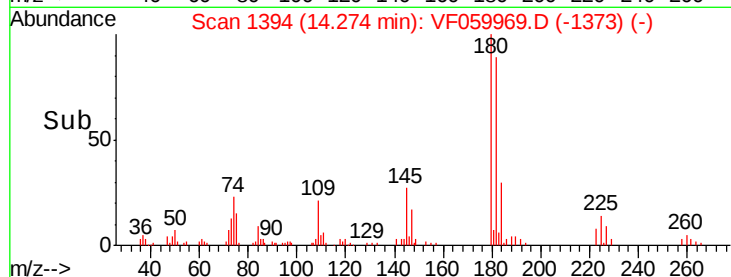
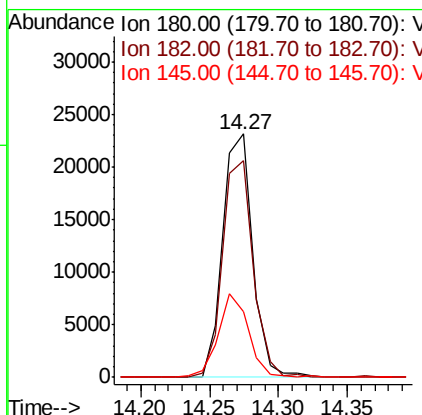
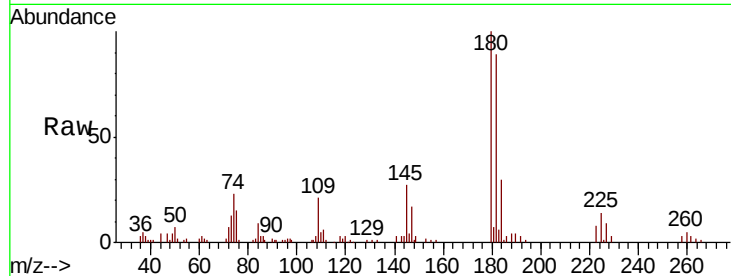
#93
 1,2,4-Trichlorobenzene
 Concen: 11.45 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. 0.00 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
180	100	34915		
182	89.1	49.7	149.1	
145	26.9	16.4	49.4	

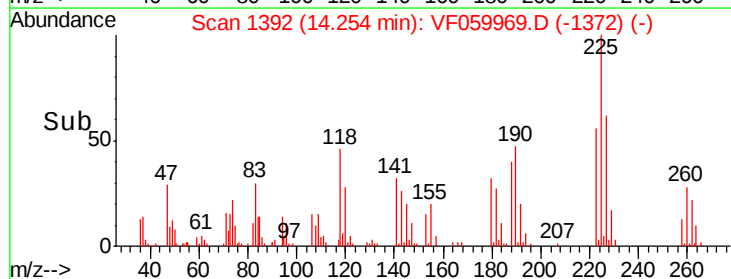
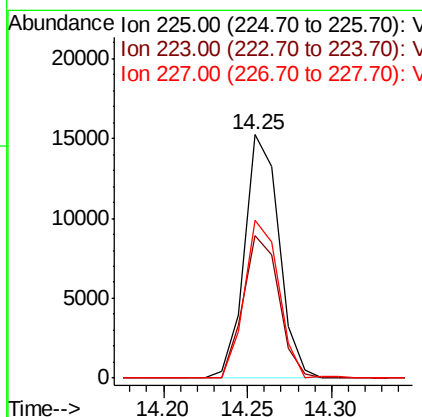
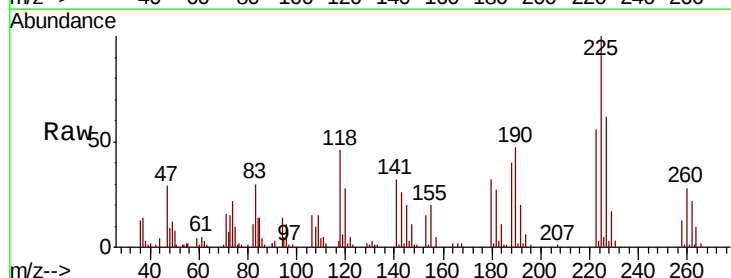
Manual Integrations
 APPROVED

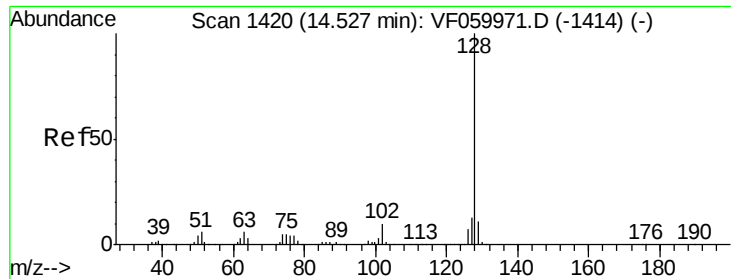
apatel
 8/17/2018 11:23:29 AM



#94
 Hexachlorobutadiene
 Concen: 10.11 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VF059969.D
 Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	21641		
223	58.5	31.0	93.0	
227	64.7	32.4	97.2	





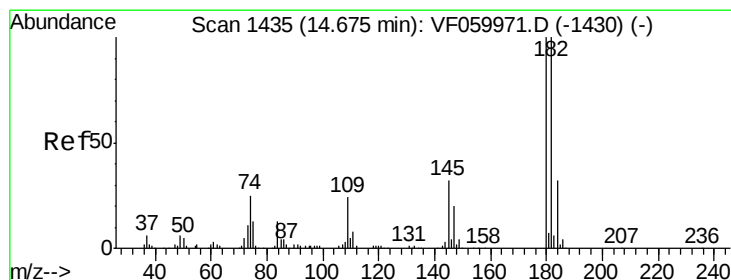
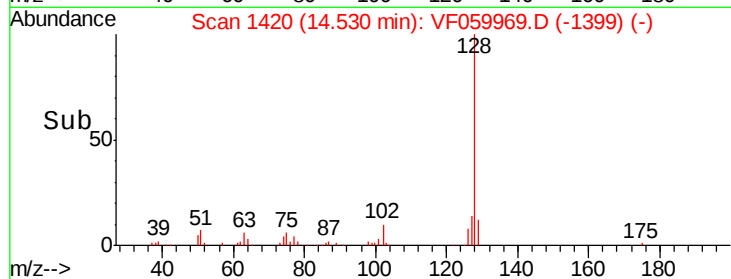
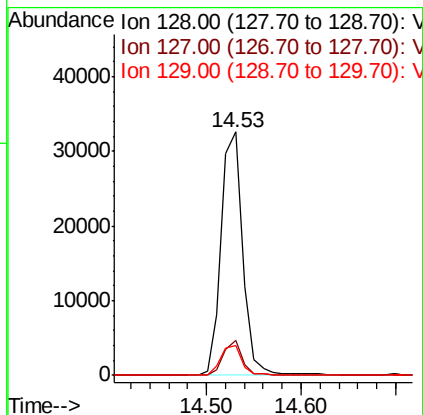
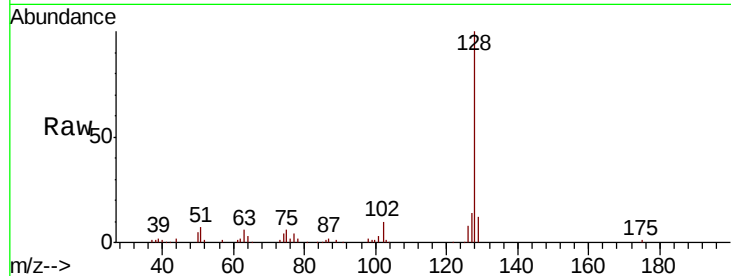
#95
Naphthalene
Concen: 10.09 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. 0.00 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.2	15.4
129	12.3	8.8	13.2

Manual Integrations
APPROVED

apatel
8/17/2018 11:23:29 AM



#96
1,2,3-Trichlorobenzene
Concen: 11.75 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. -0.01 min
Lab File: VF059969.D
Acq: 16 Aug 2018 19:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	49.9	149.7
145	33.1	16.2	48.5

