

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110918\
 Data File : VF060669.D
 Acq On : 9 Nov 2018 13:21
 Operator : VA/AP
 Sample : VF1109SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1109SBS01

Manual Integrations
 APPROVED

apatel
 11/12/2018 2:41:01 PM

Quant Time: Nov 12 04:35:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	246788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	424948	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	368868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	206887	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	143365	57.50	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	115.00%	
35) Dibromofluoromethane	4.10	113	176873	53.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.74%	
50) Toluene-d8	7.55	98	479095	49.26	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	98.52%	
62) 4-Bromofluorobenzene	11.41	95	213991	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.96	85	94252	35.380	ug/l	95
3) Chloromethane	1.10	50	60952	28.220	ug/l	95
4) Vinyl Chloride	1.13	62	52479	26.368	ug/l #	83
5) Bromomethane	1.31	94	27104	24.261	ug/l #	72
6) Chloroethane	1.36	64	18545	23.532	ug/l	94
7) Trichlorofluoromethane	1.47	101	102934m	27.633	ug/l	
8) Diethyl Ether	1.62	74	13092	18.963	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	1.82	101	50821	23.875	ug/l	92
10) Methyl Iodide	1.88	142	85290m	24.348	ug/l	
11) Tert butyl alcohol	2.56	59	12136	88.559	ug/l #	89
12) 1,1-Dichloroethene	1.78	96	41342	23.060	ug/l	87
13) Acrolein	1.98	56	9576	96.380	ug/l	94
14) Allyl chloride	2.08	41	75967	25.950	ug/l	96
15) Acrylonitrile	2.93	53	30776	103.564	ug/l	89
16) Acetone	2.23	43	77816	132.439	ug/l	95
17) Carbon Disulfide	1.80	76	119943	23.750	ug/l	96
18) Methyl Acetate	2.34	43	19560	21.705	ug/l	97
19) Methyl tert-butyl Ether	2.42	73	99984	23.857	ug/l	99
20) Methylene Chloride	2.17	84	45060m	22.904	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	43826	23.301	ug/l	96
22) Diisopropyl ether	2.79	45	145499	23.459	ug/l	96
23) Vinyl Acetate	3.18	43	340835	91.461	ug/l	95
24) 1,1-Dichloroethane	2.86	63	85955	23.946	ug/l	97
25) 2-Butanone	4.32	43	139539	108.067	ug/l	96
26) 2,2-Dichloropropane	3.58	77	65792	24.496	ug/l	97
27) cis-1,2-Dichloroethene	3.46	96	83580	23.277	ug/l	99
28) Bromochloromethane	3.71	49	52302	23.218	ug/l	96
29) Tetrahydrofuran	4.05	42	47589	102.960	ug/l	99
30) Chloroform	3.85	83	141399	24.899	ug/l	96
31) Cyclohexane	3.68	56	118684	23.960	ug/l	99
32) 1,1,1-Trichloroethane	4.08	97	106542	26.861	ug/l	94
36) 1,1-Dichloropropene	4.26	75	101831	21.764	ug/l	98
37) Ethyl Acetate	4.09	43	39528	17.599	ug/l #	64
38) Carbon Tetrachloride	3.98	117	95426	23.867	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110918\
 Data File : VF060669.D
 Acq On : 9 Nov 2018 13:21
 Operator : VA/AP
 Sample : VF1109SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF1109SBS01

Manual Integrations
 APPROVED

apatel
 11/12/2018 2:41:01 PM

Quant Time: Nov 12 04:35:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	129117	22.613	ug/l	96
40) Benzene	4.63	78	259726	22.868	ug/l	99
41) Methacrylonitrile	4.73	41	25402	19.971	ug/l #	91
42) 1,2-Dichloroethane	4.93	62	70366	21.586	ug/l	96
43) Isopropyl Acetate	6.95	43	49332	17.364	ug/l #	93
44) Trichloroethene	5.49	130	76052	22.281	ug/l	90
45) 1,2-Dichloropropane	6.22	63	66059	22.742	ug/l	92
46) Dibromomethane	6.08	93	41293	22.408	ug/l	97
47) Bromodichloromethane	6.37	83	98562	22.175	ug/l #	97
48) Methyl methacrylate	6.71	41	29968	16.783	ug/l	90
49) 1,4-Dioxane	6.71	88	6097	326.409	ug/l #	77
51) 4-Methyl-2-Pentanone	8.26	43	182714	95.635	ug/l	100
52) Toluene	7.62	92	151572	20.487	ug/l	90
53) t-1,3-Dichloropropene	8.28	75	77039	19.942	ug/l	94
54) cis-1,3-Dichloropropene	7.30	75	99882	20.464	ug/l	93
55) 1,1,2-Trichloroethane	8.48	97	44037	20.455	ug/l	96
56) Ethyl methacrylate	8.61	69	48544	17.525	ug/l	97
57) 1,3-Dichloropropane	8.85	76	79016	20.917	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.62	63	22238	114.176	ug/l	100
59) 2-Hexanone	9.49	43	148180	101.972	ug/l	98
60) Dibromochloromethane	8.71	129	59758	19.847	ug/l	98
61) 1,2-Dibromoethane	8.99	107	46677	20.617	ug/l	97
64) Tetrachloroethene	8.15	164	60333	20.870	ug/l	95
65) Chlorobenzene	9.80	112	161126	21.360	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.92	131	71377	22.394	ug/l	96
67) Ethyl Benzene	9.89	91	302656	22.110	ug/l	98
68) m/p-Xylenes	10.13	106	232626	45.114	ug/l	95
69) o-Xylene	10.71	106	125377	22.268	ug/l	96
70) Styrene	10.78	104	174533	21.396	ug/l	93
71) Bromoform	10.77	173	31971	19.421	ug/l	95
73) Isopropylbenzene	11.13	105	371380	23.017	ug/l	96
74) N-amyl acetate	11.37	43	74748	15.852	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.69	83	61379	20.842	ug/l	95
76) 1,2,3-Trichloropropane	11.87	75	28003	19.348	ug/l	88
77) Bromobenzene	11.49	156	73964	20.950	ug/l	97
78) n-propylbenzene	11.59	91	419644	22.230	ug/l	100
79) 2-Chlorotoluene	11.72	91	242060	22.453	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	306844	23.072	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.87	75	20884m	18.360	ug/l	
82) 4-Chlorotoluene	11.90	91	249897	22.217	ug/l	98
83) tert-Butylbenzene	12.13	119	306880	22.587	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	292333	22.446	ug/l	97
85) sec-Butylbenzene	12.30	105	428740	22.940	ug/l	97
86) p-Isopropyltoluene	12.46	119	356351	23.153	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	150631	21.737	ug/l	94
88) 1,4-Dichlorobenzene	12.57	146	142912	21.743	ug/l	97
89) n-Butylbenzene	12.84	91	371739	22.298	ug/l	96
90) Hexachloroethane	12.91	117	88646	22.648	ug/l	79
91) 1,2-Dichlorobenzene	12.94	146	145271	22.408	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.64	75	10800	21.108	ug/l	95

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF110918\
Data File : VF060669.D
Acq On : 9 Nov 2018 13:21
Operator : VA/AP
Sample : VF1109SBS01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

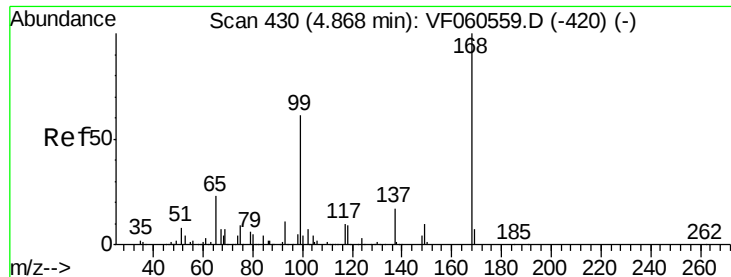
Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM

Quant Time: Nov 12 04:35:05 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	94621	21.484	ug/l	87
94) Hexachlorobutadiene	14.19	225	61493	21.547	ug/l	97
95) Naphthalene	14.45	128	161915	18.368	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	87659	21.070	ug/l	99

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



#1

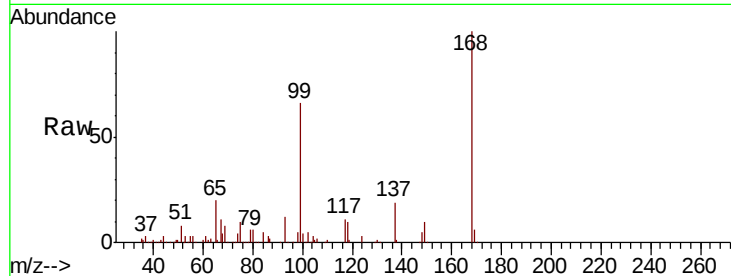
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.00 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1109SBS01

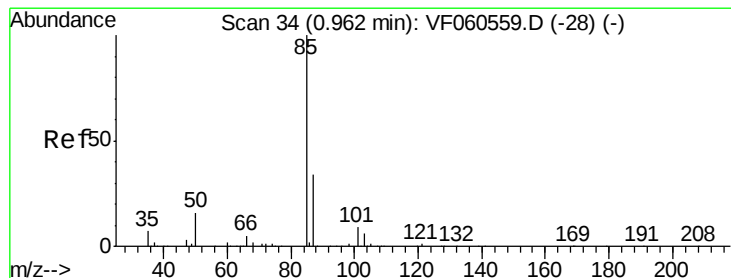
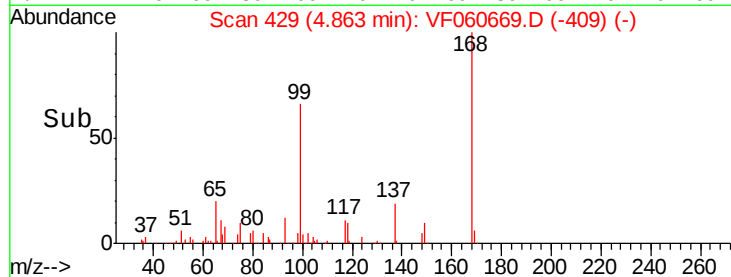
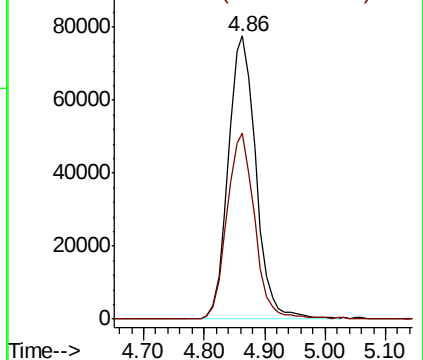
Tot Ion	Ratio	Lower	Upper
168	100		
99	65.8	48.6	72.8

Manual Integrations
 APPROVED

apatel
 11/12/2018 2:41:01 PM



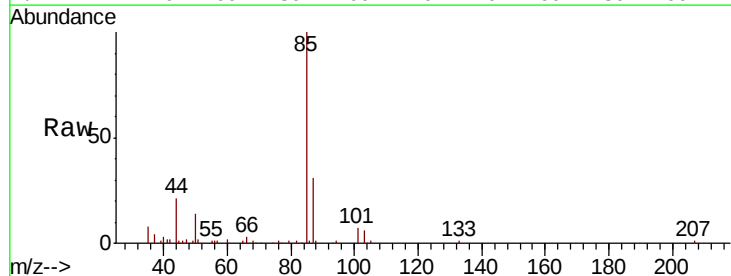
Abundance Ion 168.00 (167.70 to 168.70): VF060559.D (-420) (-)



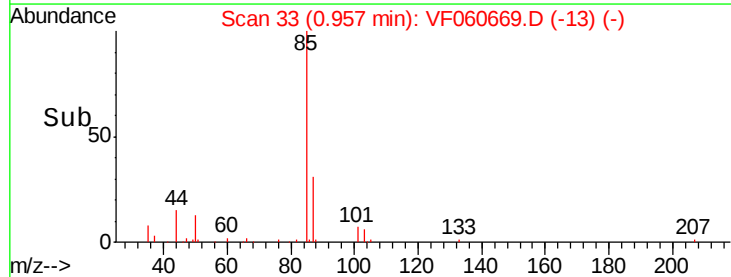
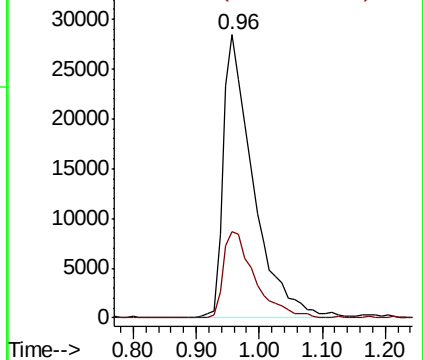
#2

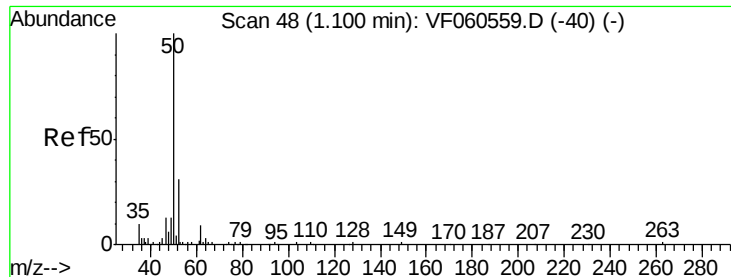
Dichlorodifluoromethane
 Concen: 35.380 ug/l
 RT: 0.96 min Scan# 33
 Delta R.T. -0.00 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.7	16.9	50.7



Abundance Ion 85.00 (84.70 to 85.70): VF060559.D (-28) (-)





#3

Chloromethane

Concen: 28.220 ug/l

RT: 1.10 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion: 50 Resp: 60952

Ion Ratio Lower Upper

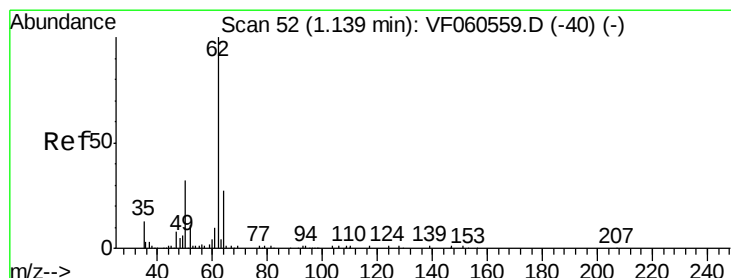
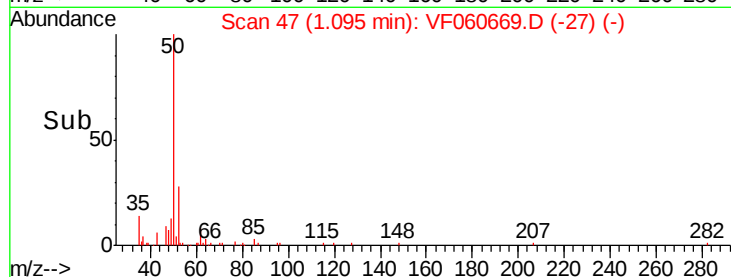
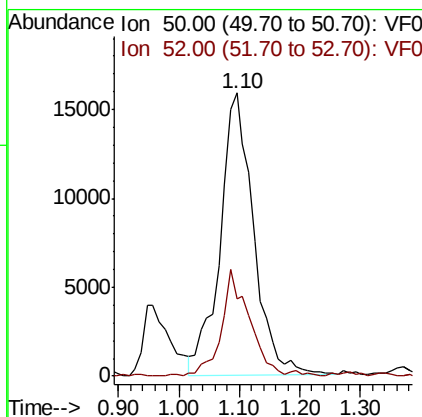
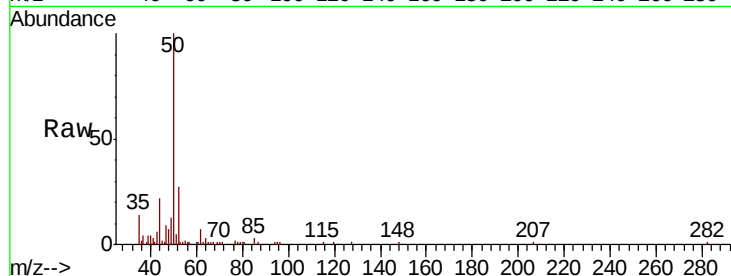
50 100

52 27.3 24.0 36.0

Manual Integrations
APPROVED

apatel

11/12/2018 2:41:01 PM



#4

Vinyl Chloride

Concen: 26.368 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF060669.D

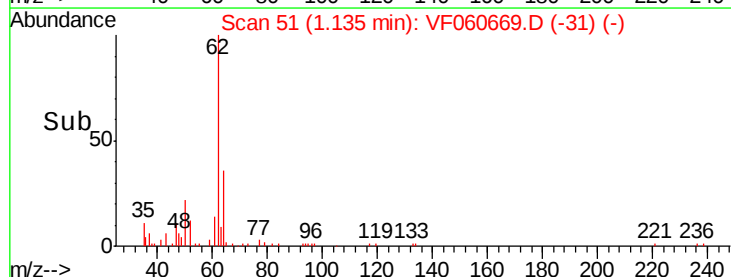
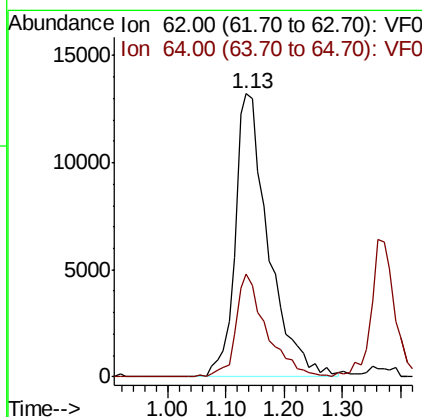
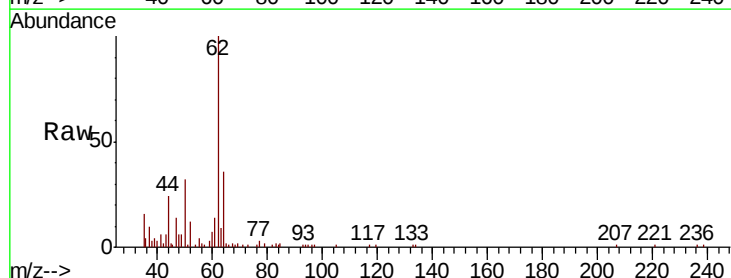
Acq: 9 Nov 2018 13:21

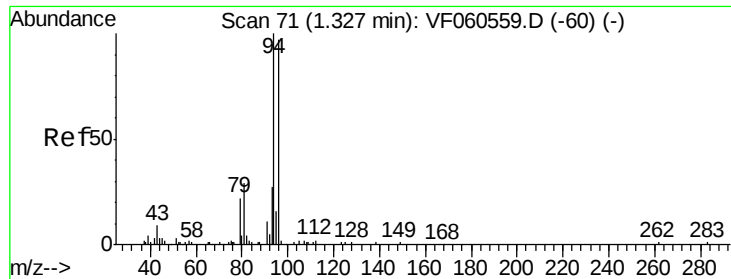
Tgt Ion: 62 Resp: 52479

Ion Ratio Lower Upper

62 100

64 36.2 21.8 32.6#





#5

Bromomethane

Concen: 24.261 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion: 94 Resp: 27104

Ion Ratio Lower Upper

94 100

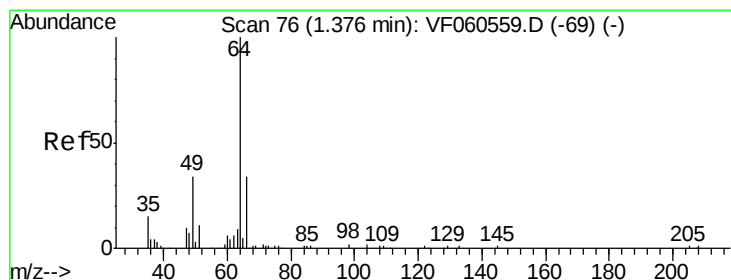
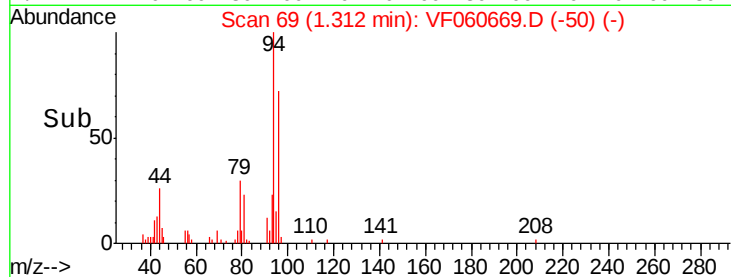
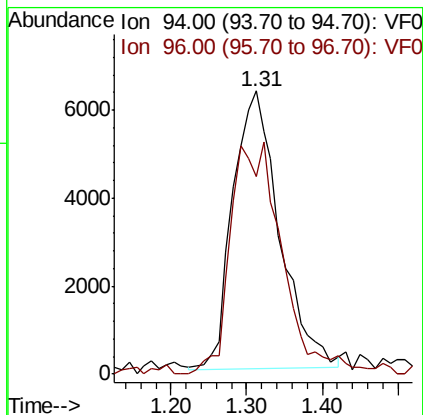
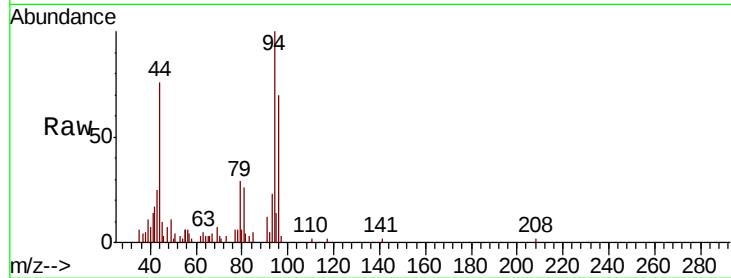
96 69.9 77.9 116.9#

Manual Integrations

APPROVED

apatel

11/12/2018 2:41:01 PM



#6

Chloroethane

Concen: 23.532 ug/l

RT: 1.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VF060669.D

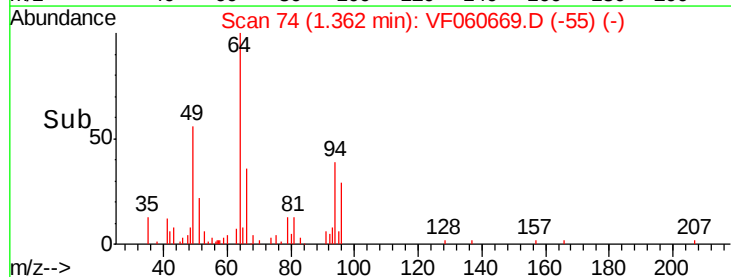
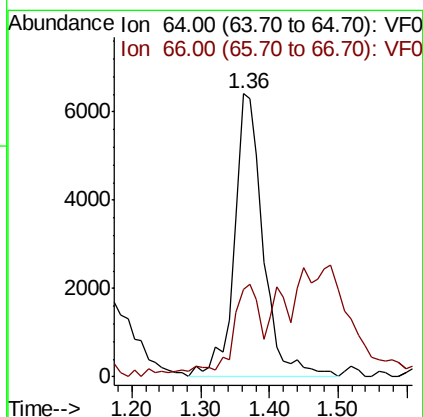
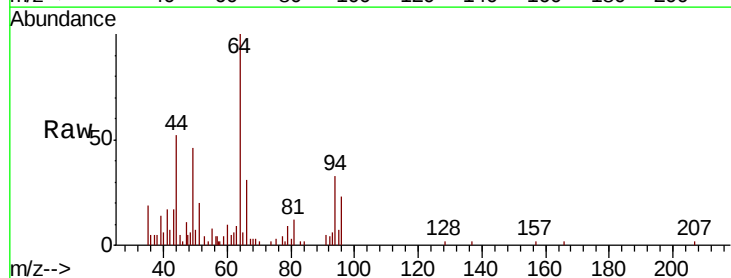
Acq: 9 Nov 2018 13:21

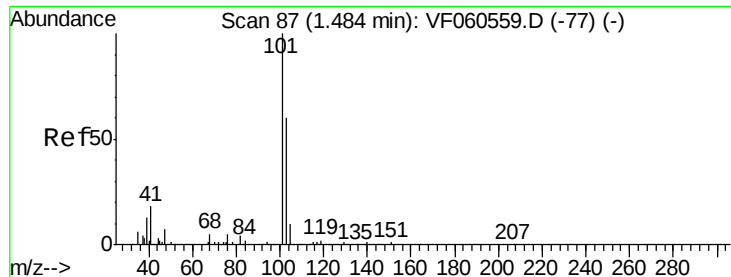
Tgt Ion: 64 Resp: 18545

Ion Ratio Lower Upper

64 100

66 31.1 27.8 41.8





#7

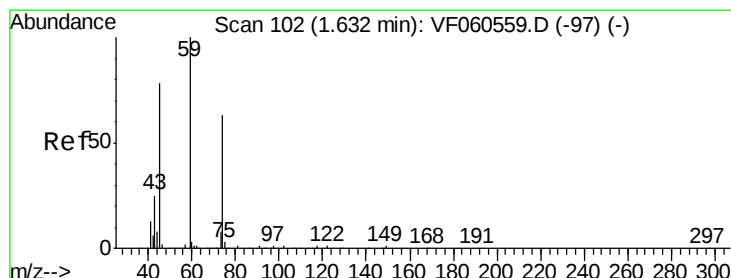
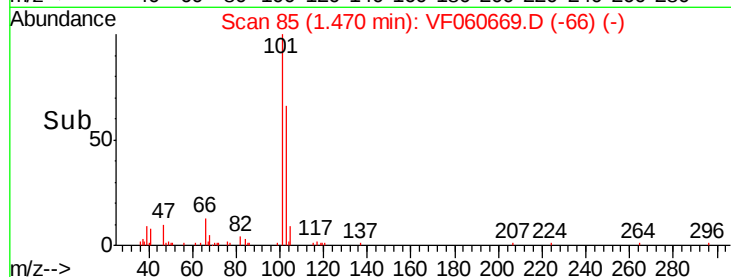
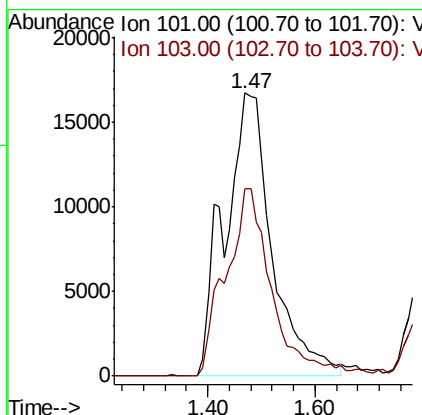
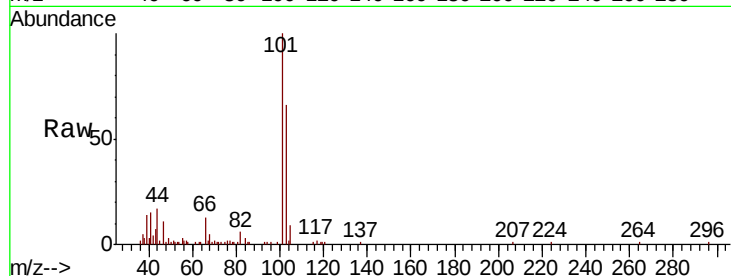
Trichlorofluoromethane
 Concen: 27.633 ug/l m
 RT: 1.47 min Scan# 85
 Delta R.T. -0.01 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1109SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.3	48.0	72.0

Manual Integrations
 APPROVED

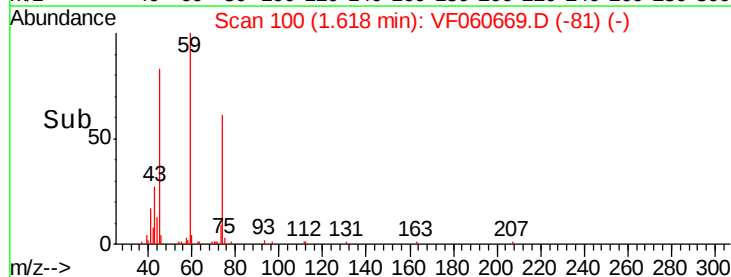
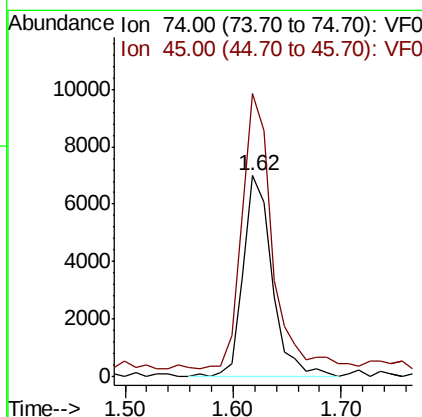
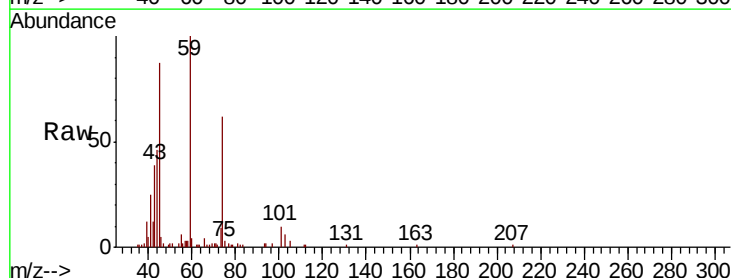
apatel
 11/12/2018 2:41:01 PM

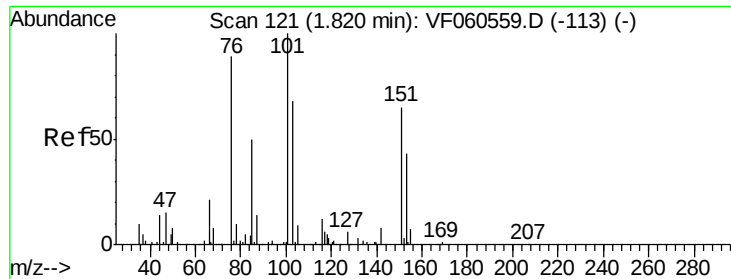


#8

Diethyl Ether
 Concen: 18.963 ug/l
 RT: 1.62 min Scan# 100
 Delta R.T. -0.01 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
74	100		
45	140.9	63.8	191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.875 ug/l

RT: 1.82 min Scan# 120

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

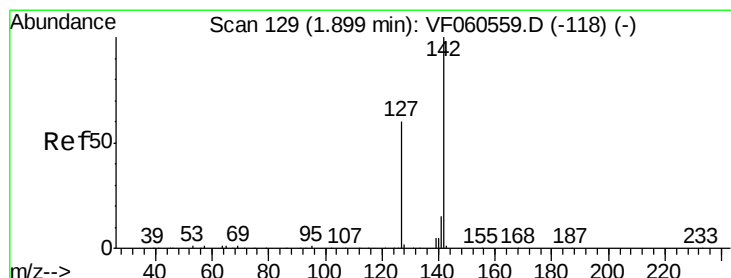
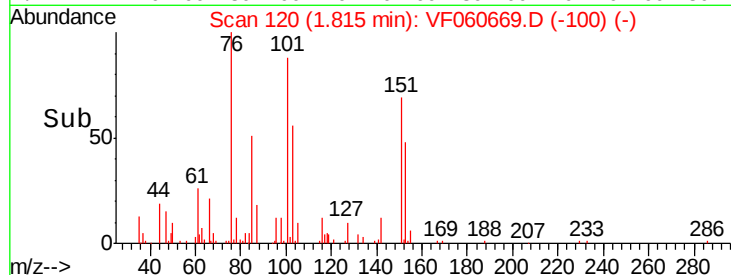
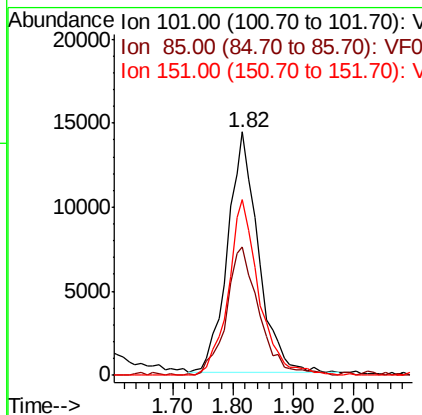
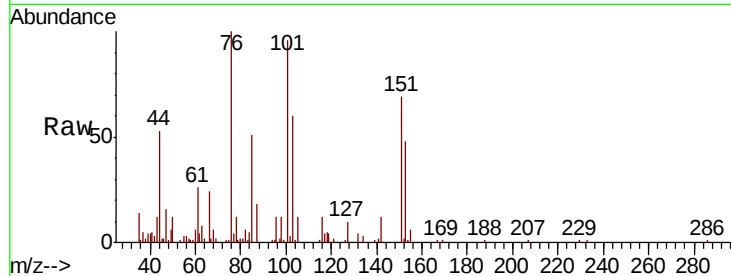
ClientSampleId :

VF1109SBS01

Tot Ion:	101	Resp:	50821
Ion Ratio	Lower	Upper	
101	100		
85	52.9	39.8	59.6
151	72.2	50.8	76.2

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#10

Methyl Iodide

Concen: 24.348 ug/l m

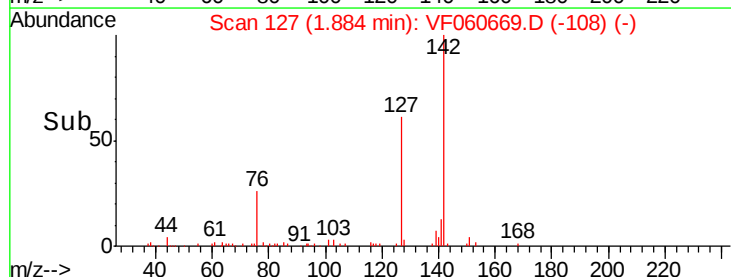
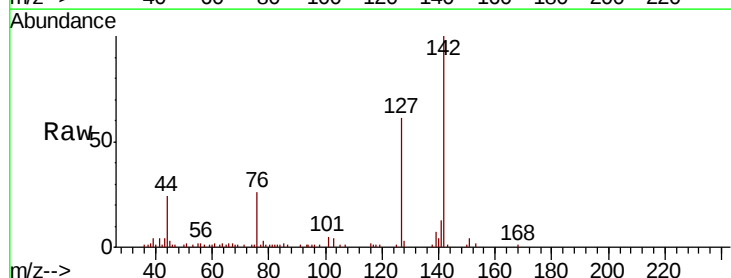
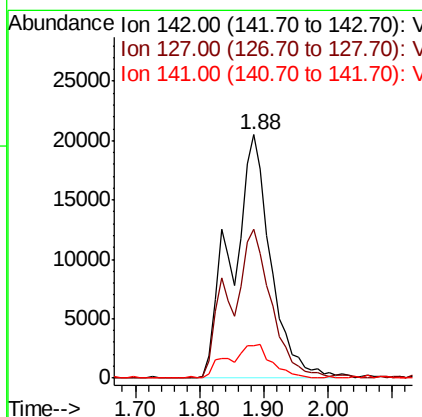
RT: 1.88 min Scan# 127

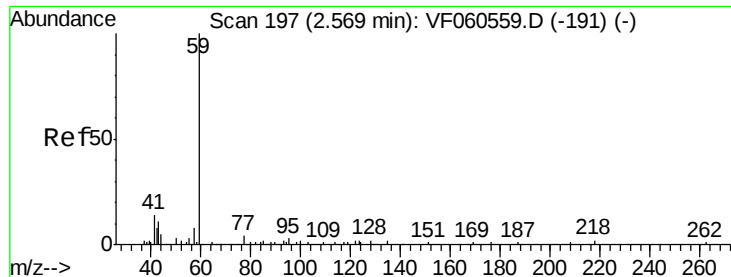
Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion:	142	Resp:	85290
Ion Ratio	Lower	Upper	
142	100		
127	61.1	47.8	71.6
141	13.2	12.7	19.1





#11

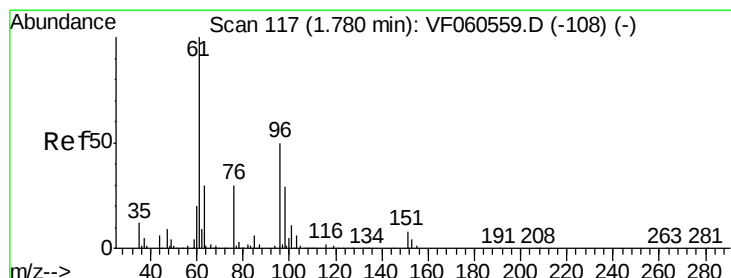
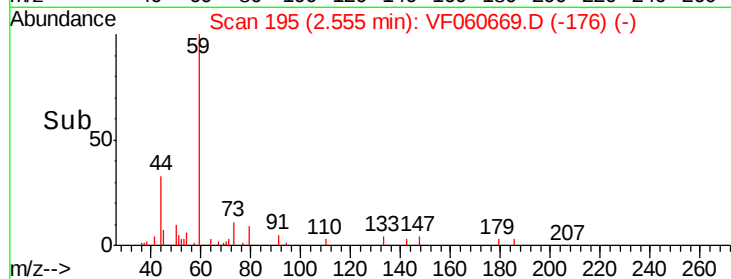
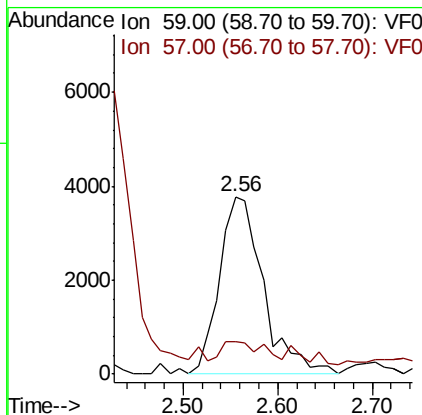
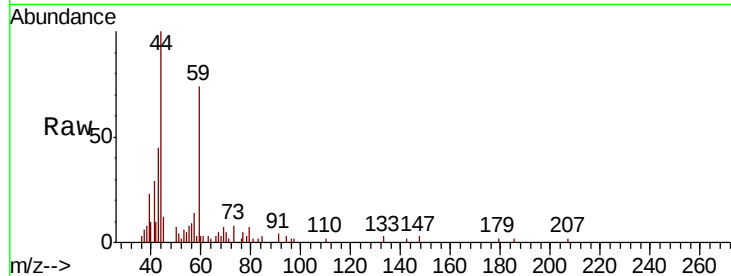
Tert butyl alcohol
Concen: 88.559 ug/l
RT: 2.56 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	59	Resp	12136
Ion Ratio	100	Lower	Upper
57	18.2	19.0	28.4#

Manual Integrations
APPROVED

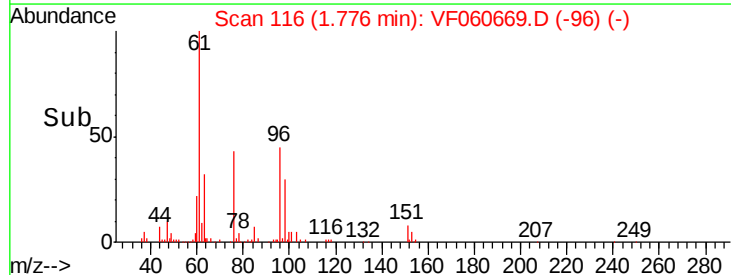
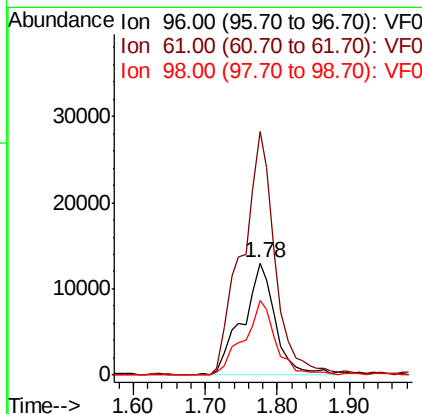
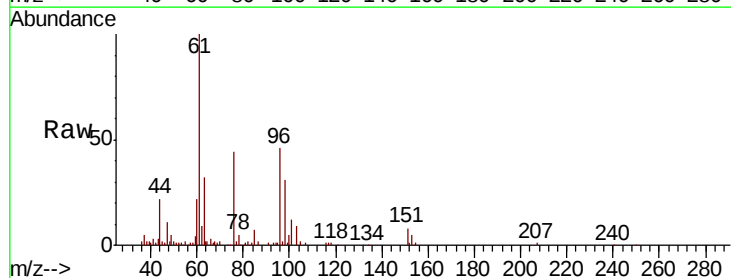
apatel
11/12/2018 2:41:01 PM

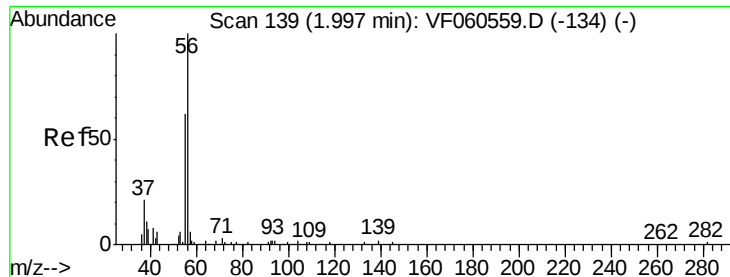


#12

1,1-Dichloroethene
Concen: 23.060 ug/l
RT: 1.78 min Scan# 116
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	96	Resp	41342
Ion Ratio	100	Lower	Upper
61	217.7	158.1	237.1
98	67.2	47.0	70.6





#13

Acrolein

Concen: 96.380 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion: 56 Resp: 9576

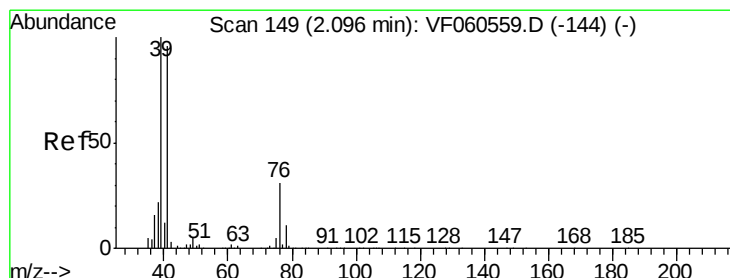
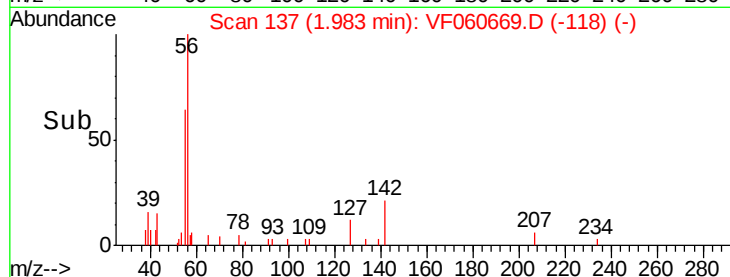
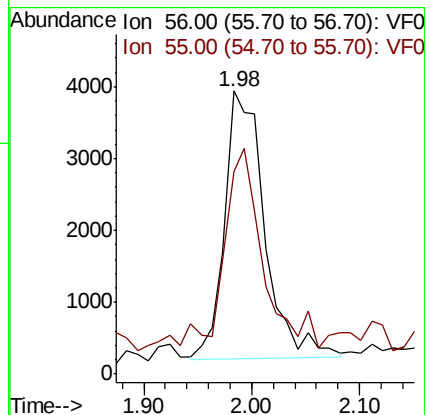
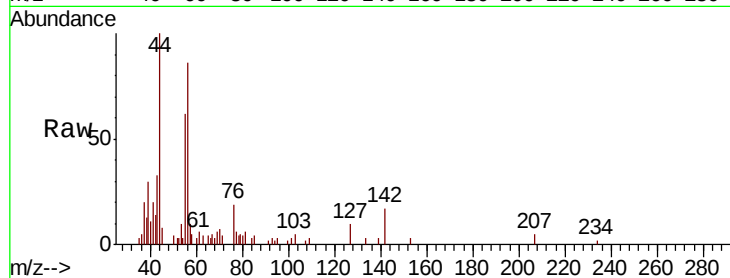
Ion Ratio Lower Upper

56 100

55 71.8 61.8 92.6

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#14

Allyl chloride

Concen: 25.950 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

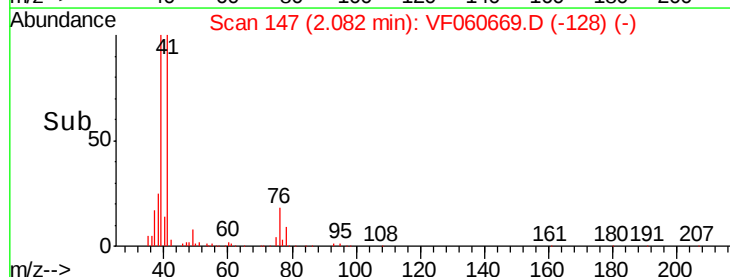
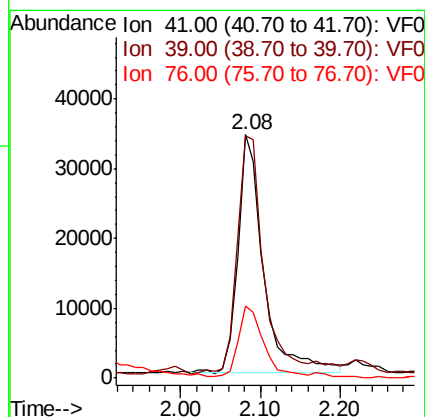
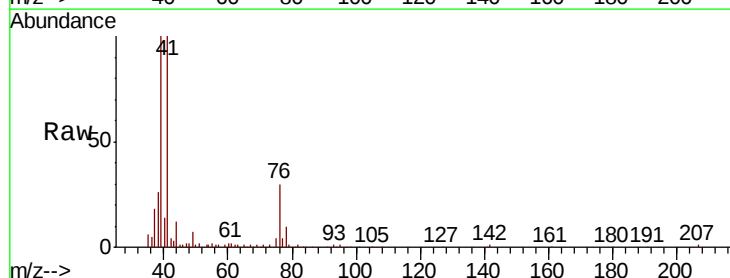
Tgt Ion: 41 Resp: 75967

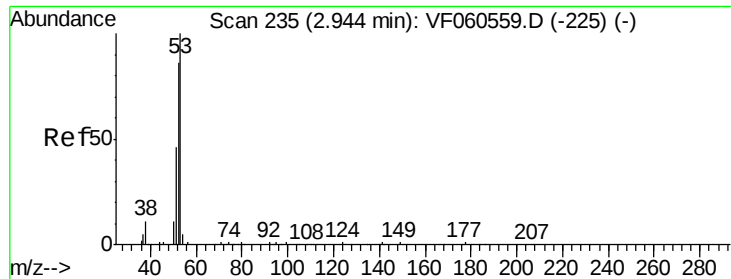
Ion Ratio Lower Upper

41 100

39 99.5 82.6 124.0

76 29.6 26.7 40.1





#15

Acrylonitrile

Concen: 103.564 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

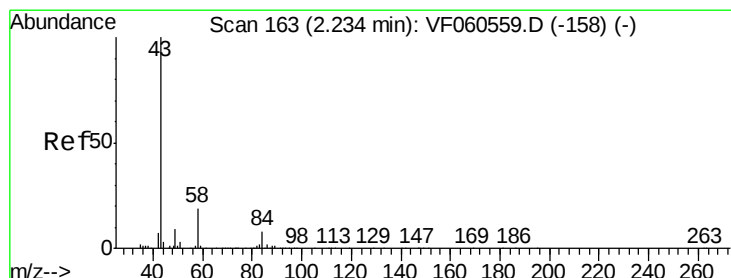
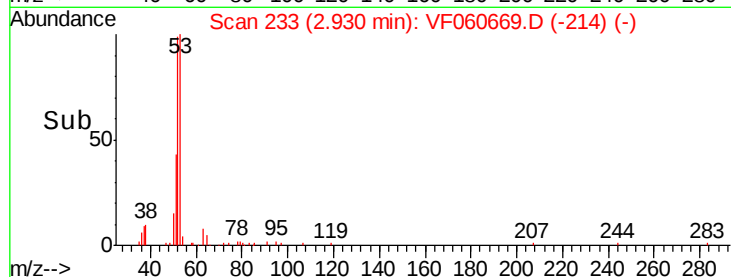
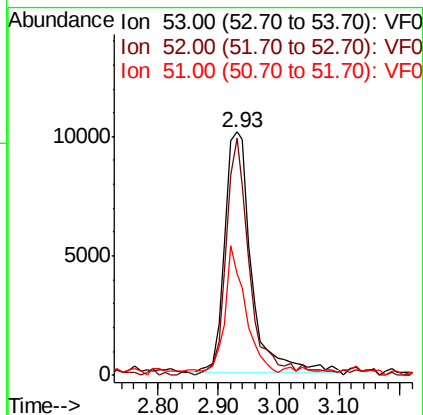
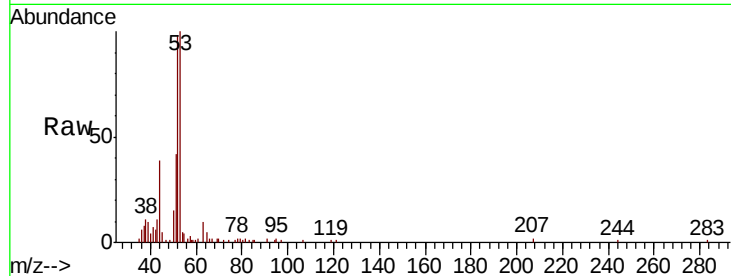
ClientSampleId :

VF1109SBS01

Tot Ion:	53	Resp:	30776
Ion	Ratio	Lower	Upper
53	100		
52	97.5	68.5	102.7
51	41.9	38.2	57.2

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#16

Acetone

Concen: 132.439 ug/l

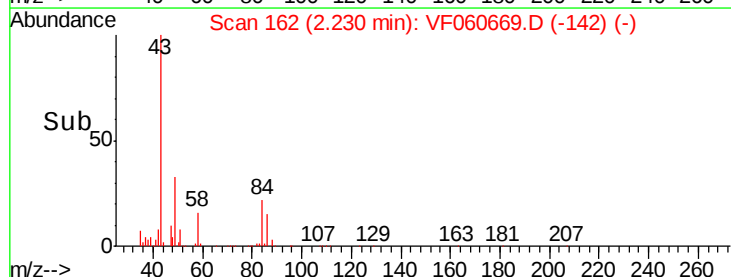
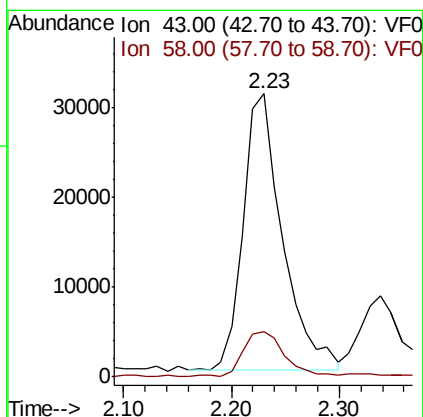
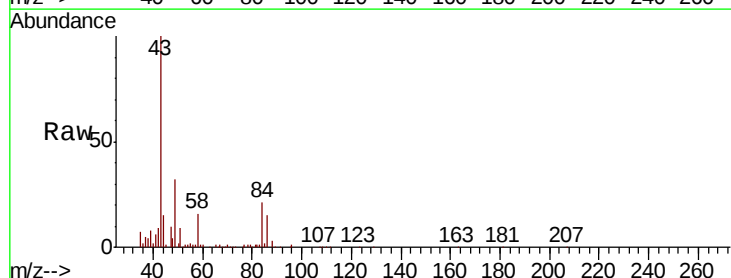
RT: 2.23 min Scan# 162

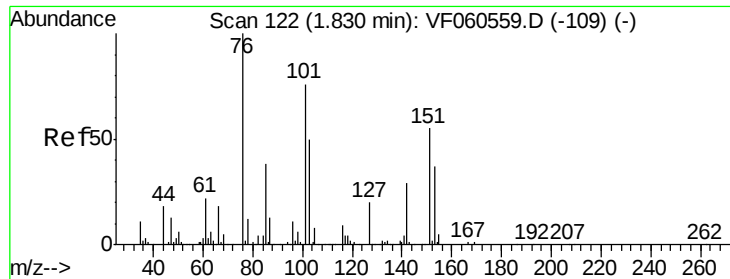
Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion:	43	Resp:	77816
Ion	Ratio	Lower	Upper
43	100		
58	16.0	14.6	22.0





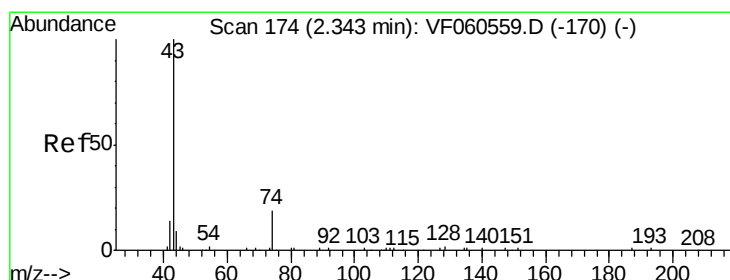
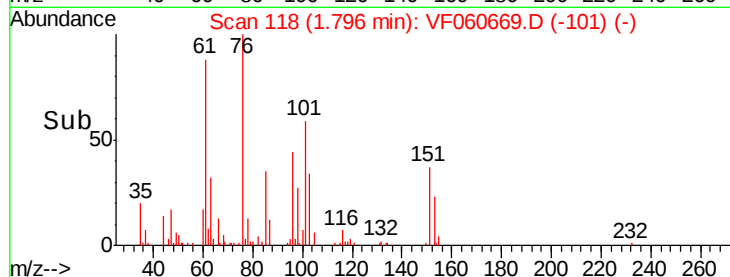
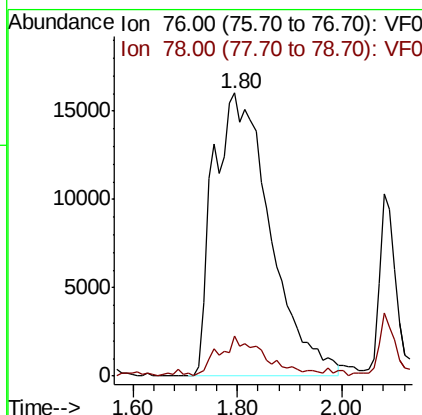
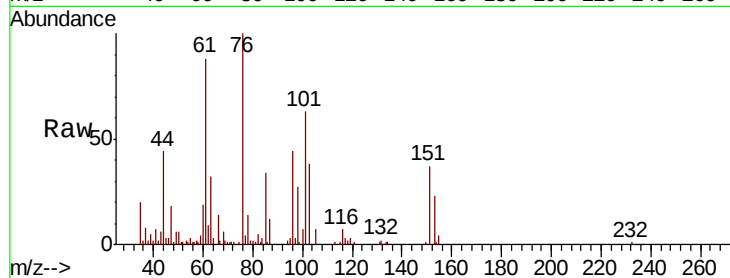
#17
Carbon Disulfide
Concen: 23.750 ug/l
RT: 1.80 min Scan# 118
Delta R.T. -0.03 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion: 76 Resp: 119943
Ion Ratio Lower Upper
76 100
78 14.1 9.9 14.9

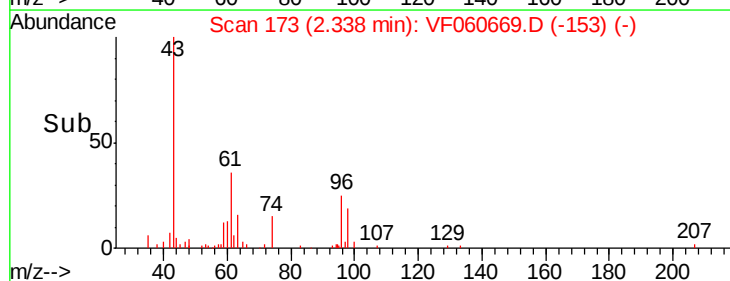
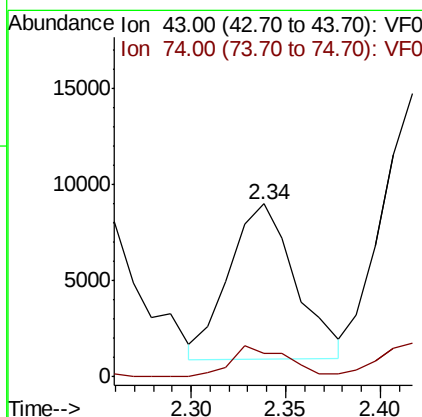
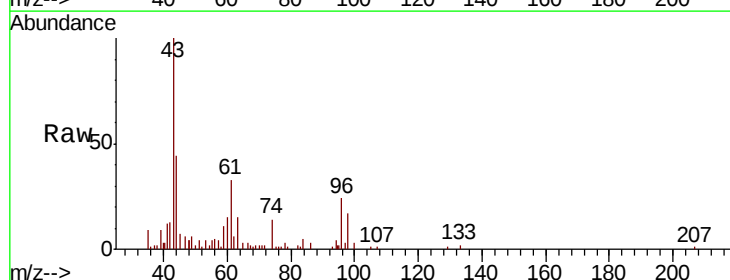
Manual Integrations
APPROVED

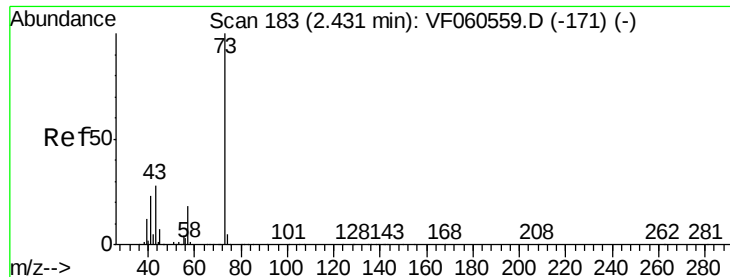
apatel
11/12/2018 2:41:01 PM



#18
Methyl Acetate
Concen: 21.705 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion: 43 Resp: 19560
Ion Ratio Lower Upper
43 100
74 13.9 12.1 18.1





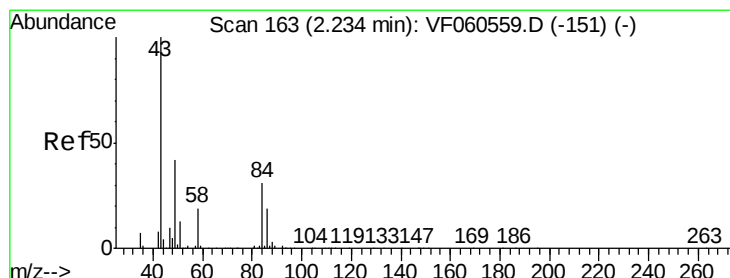
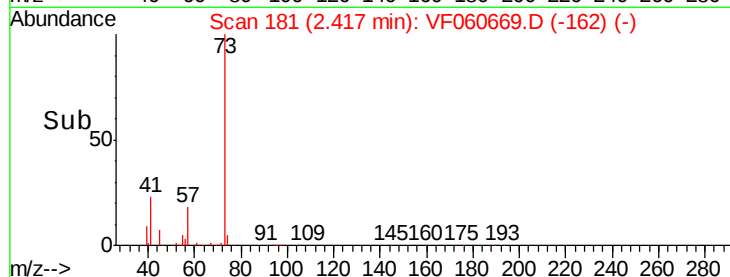
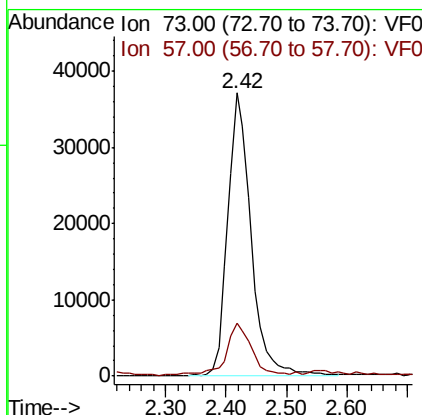
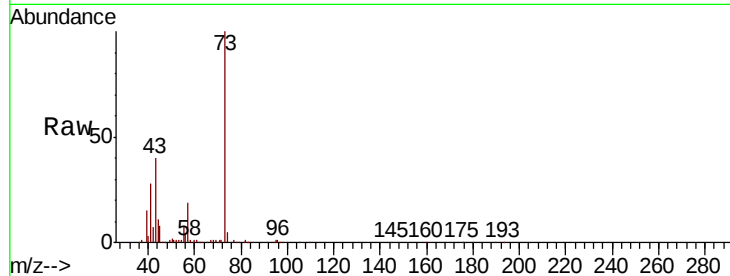
#19
Methvl tert-butvl Ether
Concen: 23.857 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion: 73 Resp: 99984
Ion Ratio Lower Upper
73 100
57 18.9 15.4 23.0

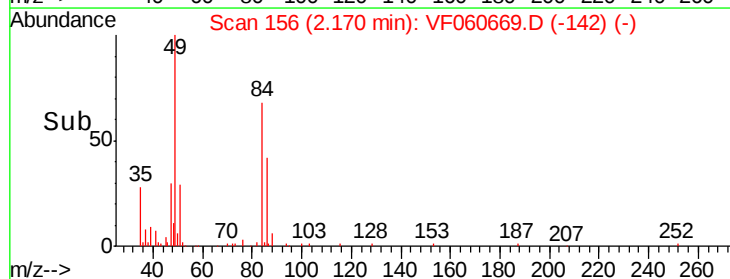
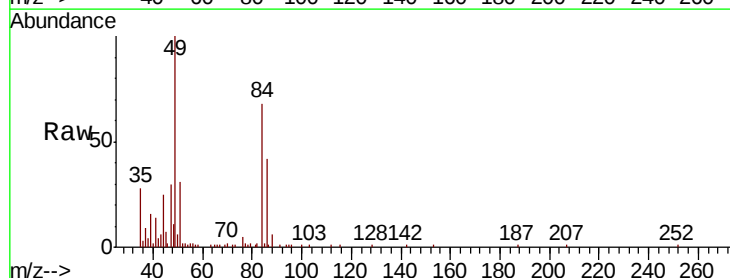
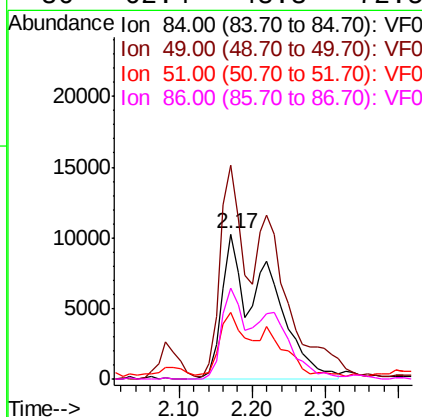
Manual Integrations
APPROVED

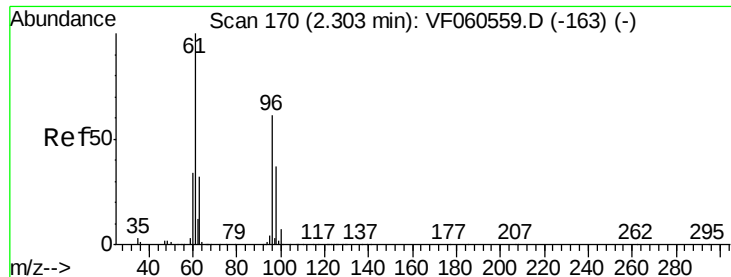
apatel
11/12/2018 2:41:01 PM



#20
Methylene Chloride
Concen: 22.904 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.06 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion: 84 Resp: 45060
Ion Ratio Lower Upper
84 100
49 147.5 109.9 164.9
51 45.9 35.8 53.8
86 62.4 48.3 72.5





#21

trans-1,2-Dichloroethene

Concen: 23.301 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

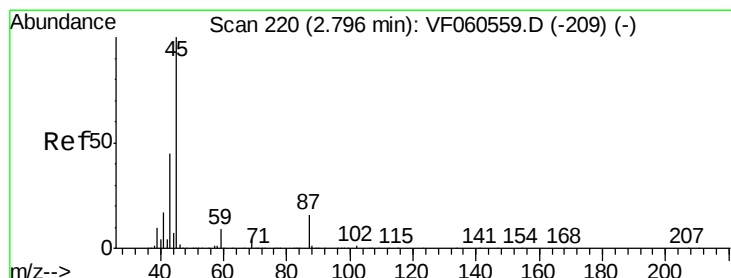
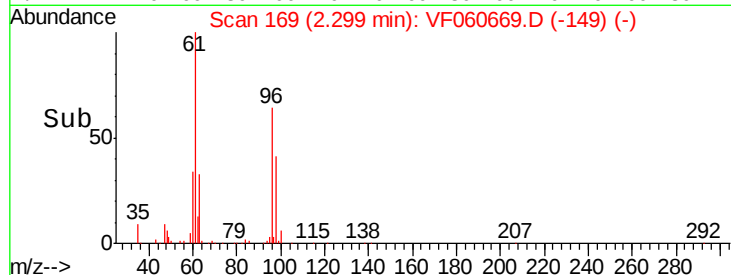
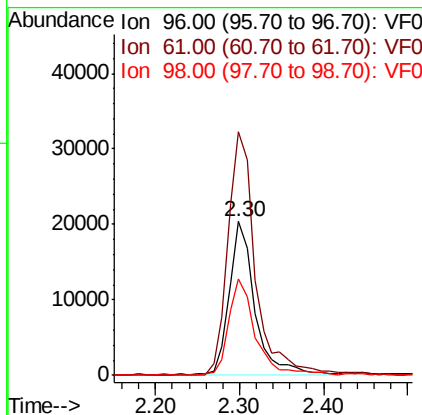
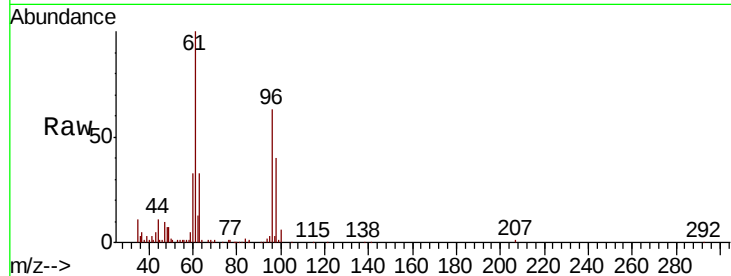
ClientSampleId :

VF1109SBS01

Tot Ion:	96	Resp:	43826
Ion	Ratio	Lower	Upper
96	100		
61	158.5	131.3	196.9
98	63.0	48.6	73.0

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#22

Diisopropyl ether

Concen: 23.459 ug/l

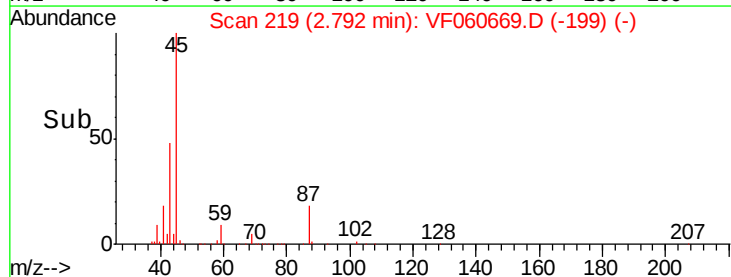
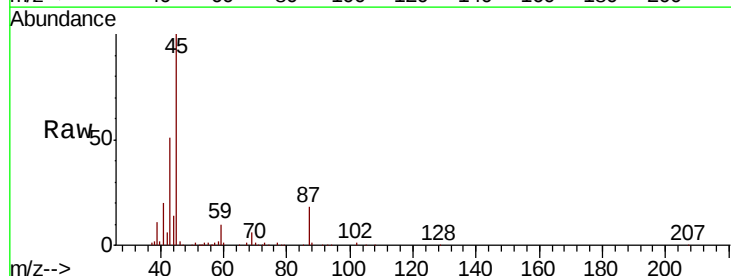
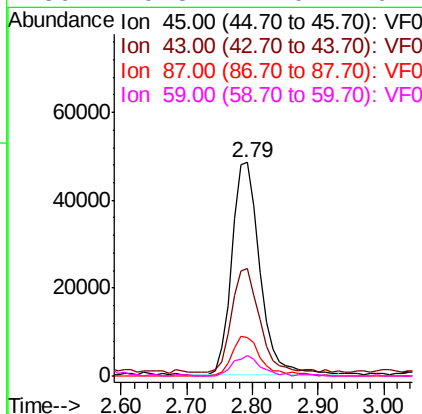
RT: 2.79 min Scan# 219

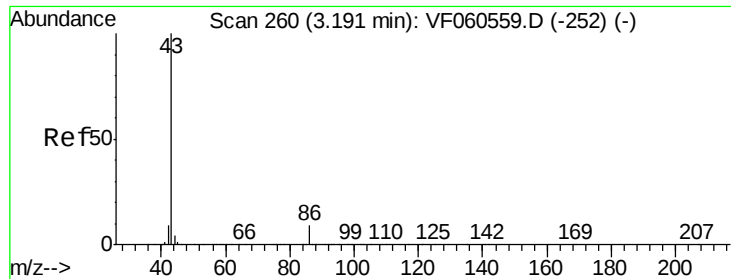
Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion:	45	Resp:	145499
Ion	Ratio	Lower	Upper
45	100		
43	50.6	38.1	57.1
87	17.8	12.7	19.1
59	9.8	7.0	10.4





#23

Vinyl Acetate

Concen: 91.461 ug/l

RT: 3.18 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion: 43 Resp: 340835

Ion Ratio Lower Upper

43 100

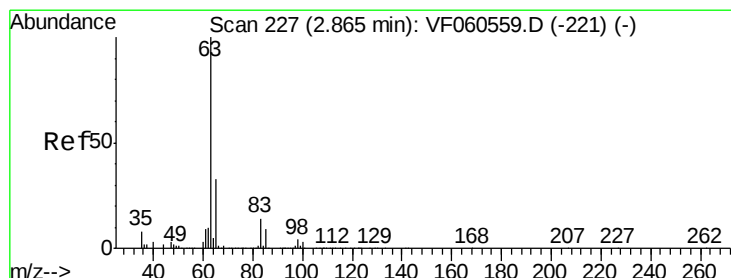
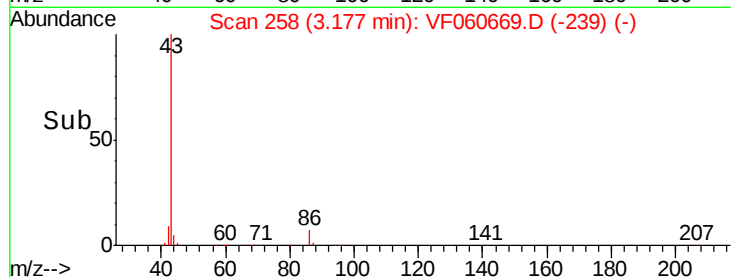
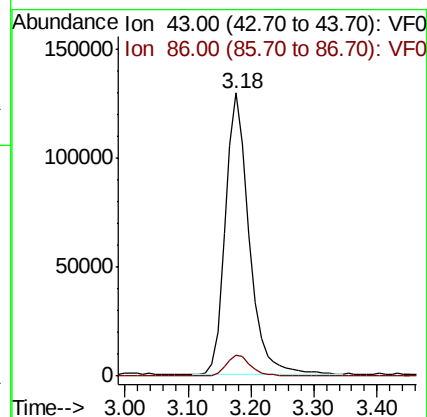
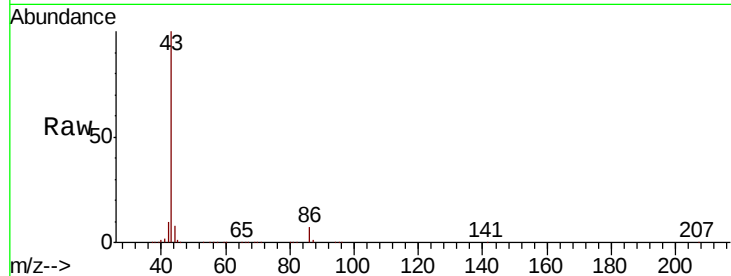
86 7.3 7.1 10.7

Manual Integrations

APPROVED

apatel

11/12/2018 2:41:01 PM



#24

1,1-Dichloroethane

Concen: 23.946 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

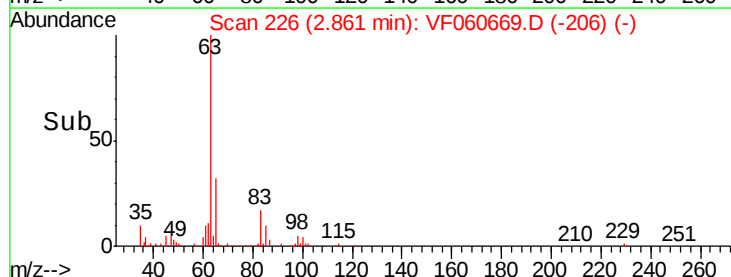
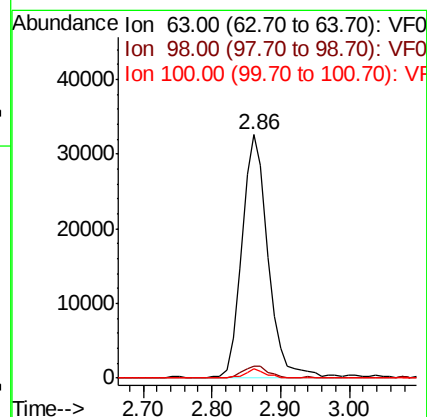
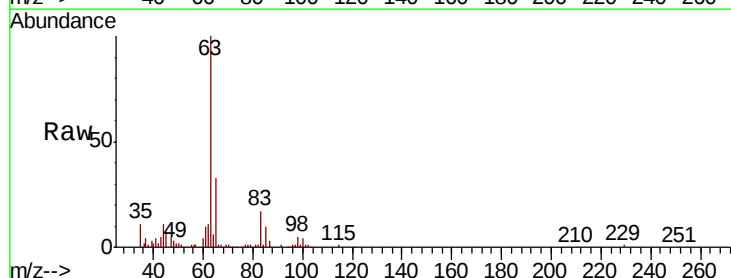
Tgt Ion: 63 Resp: 85955

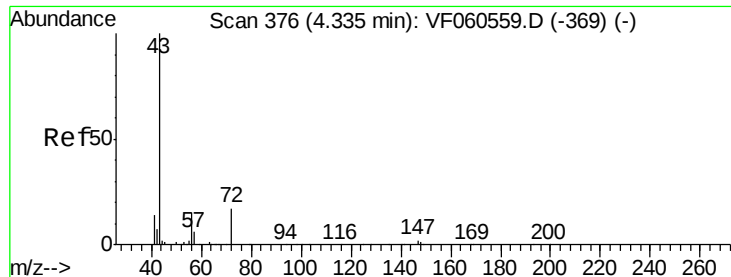
Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

100 4.0 1.4 4.0





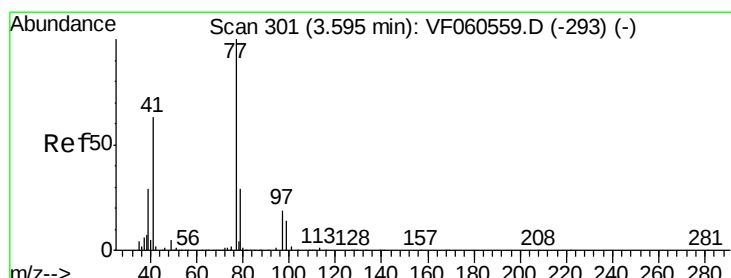
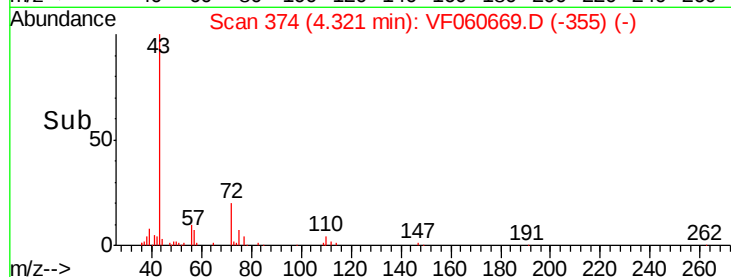
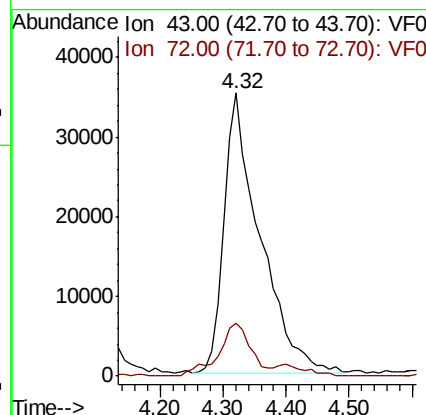
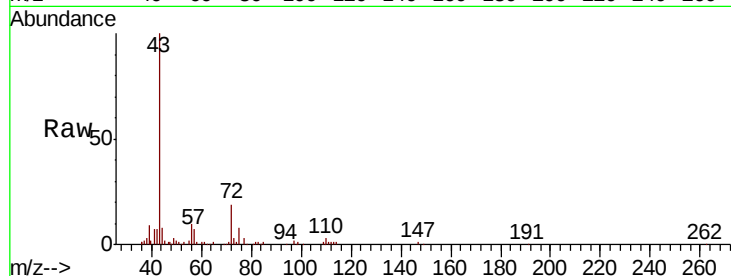
#25
2-Butanone
Concen: 108.067 ug/l
RT: 4.32 min Scan# 374
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion: 43 Resp: 139539
Ion Ratio Lower Upper
43 100
72 18.5 16.2 24.2

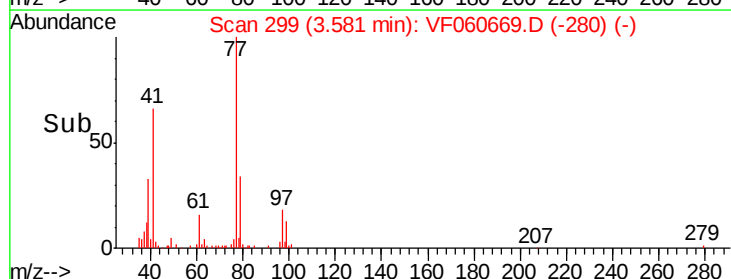
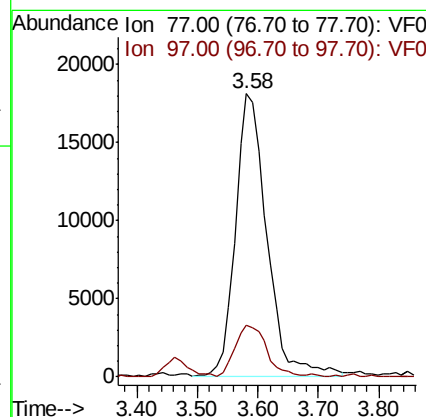
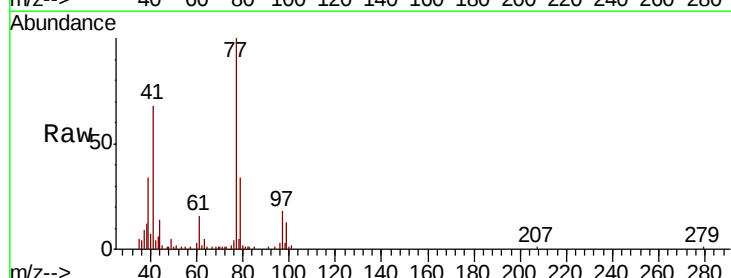
Manual Integrations
APPROVED

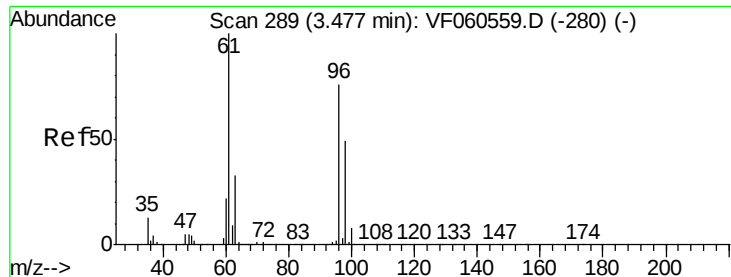
apatel
11/12/2018 2:41:01 PM



#26
2,2-Dichloropropane
Concen: 24.496 ug/l
RT: 3.58 min Scan# 299
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion: 77 Resp: 65792
Ion Ratio Lower Upper
77 100
97 18.1 9.8 29.3





#27

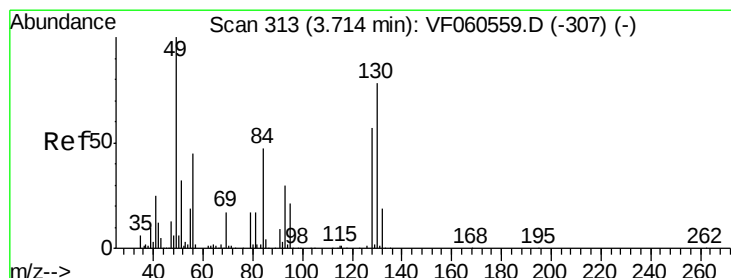
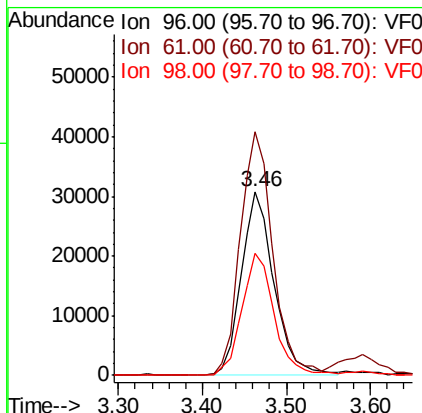
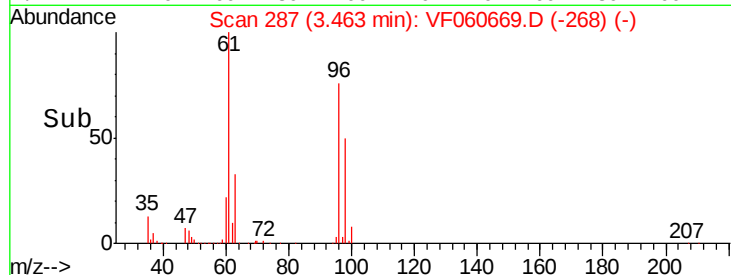
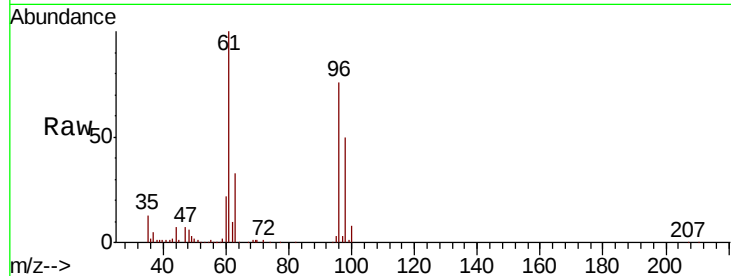
cis-1,2-Dichloroethene
 Concen: 23.277 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.01 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	83580		
61	132.3		0.0	263.0
98	66.1		0.0	130.6

Manual Integrations
 APPROVED

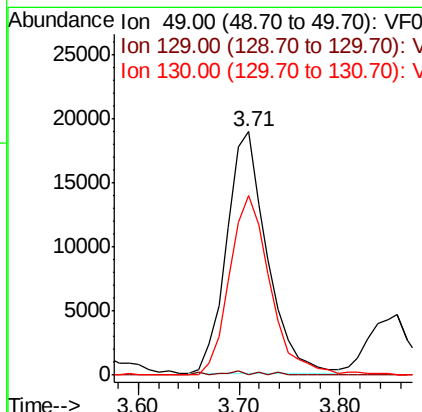
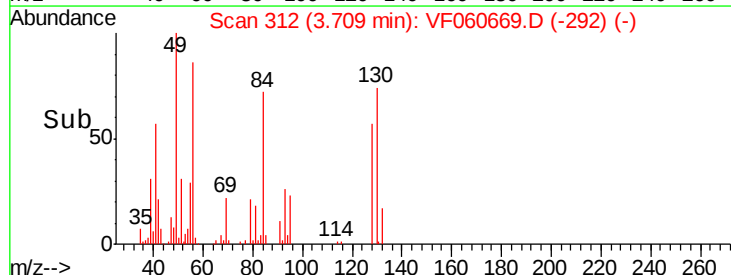
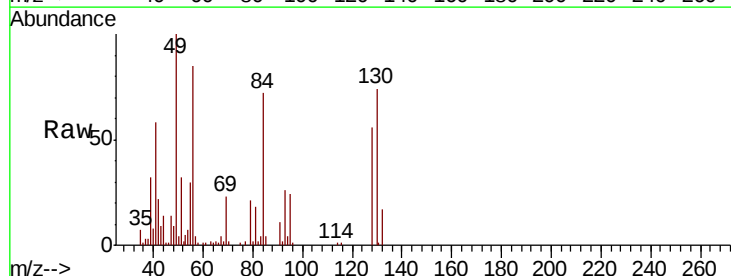
apatel
 11/12/2018 2:41:01 PM

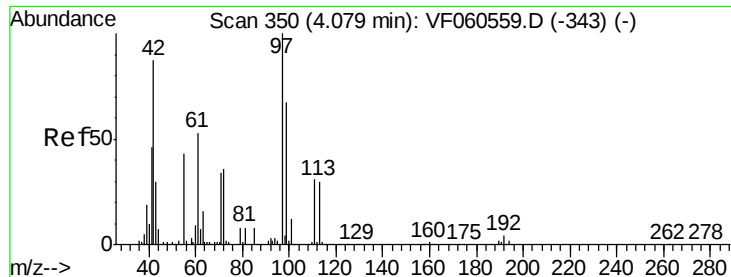


#28

Bromochloromethane
 Concen: 23.218 ug/l
 RT: 3.71 min Scan# 312
 Delta R.T. -0.00 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	52302		
129	0.0		0.0	4.6
130	73.8		61.8	92.8





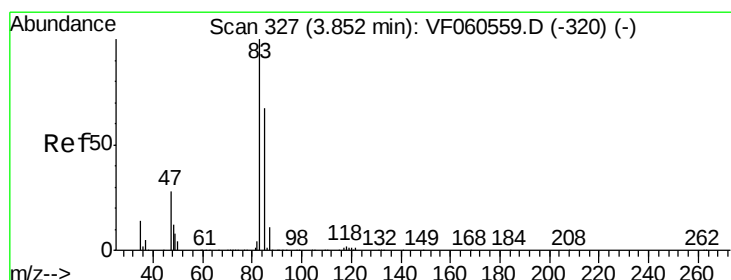
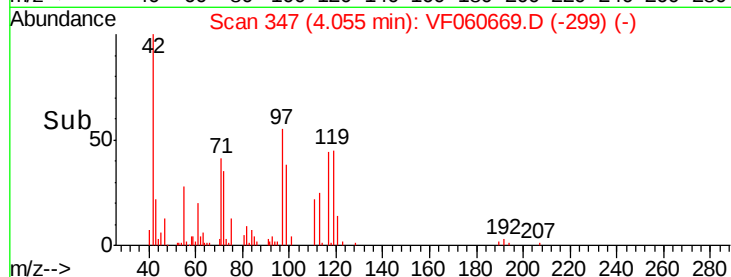
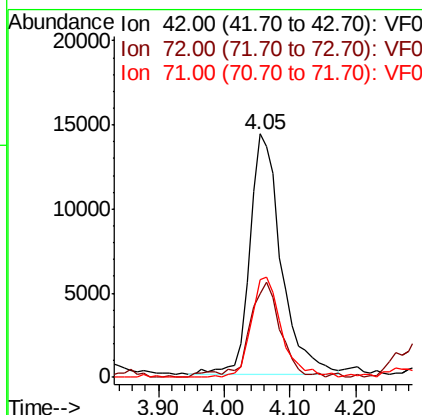
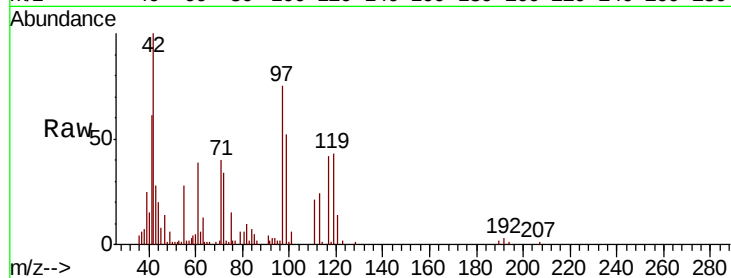
#29
Tetrahydrofuran
Concen: 102.960 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.02 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion:	42	Resp:	47589
Ion	Ratio	Lower	Upper
42	100		
72	38.3	31.4	47.0
71	40.6	31.8	47.6

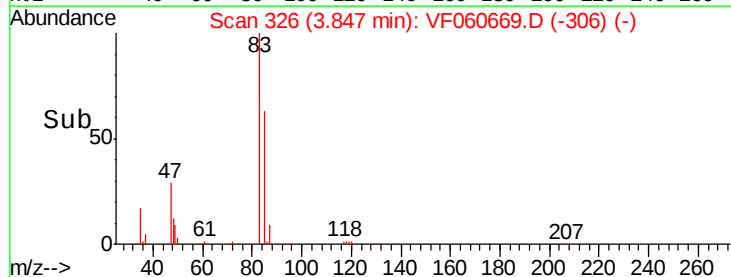
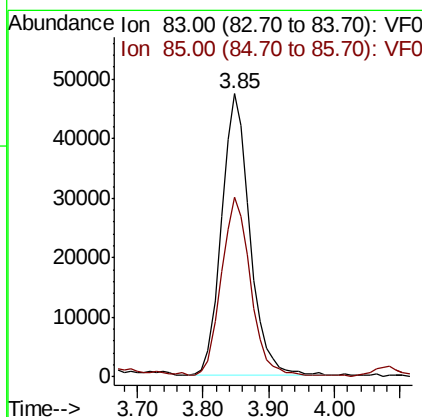
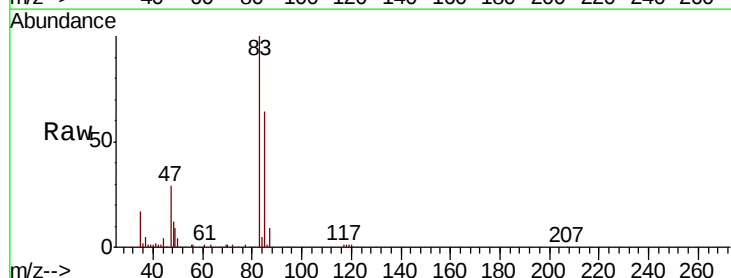
Manual Integrations
APPROVED

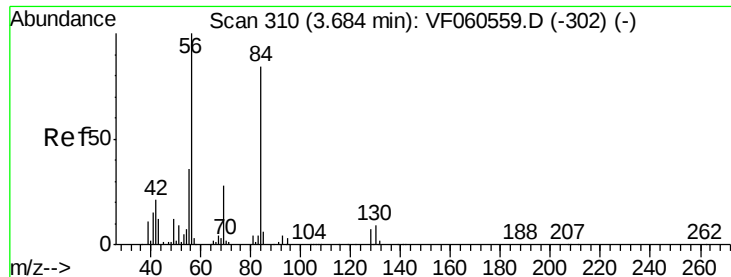
apatel
11/12/2018 2:41:01 PM



#30
Chloroform
Concen: 24.899 ug/l
RT: 3.85 min Scan# 326
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion:	83	Resp:	141399
Ion	Ratio	Lower	Upper
83	100		
85	63.7	53.7	80.5





#31

Cyclohexane

Concen: 23.960 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

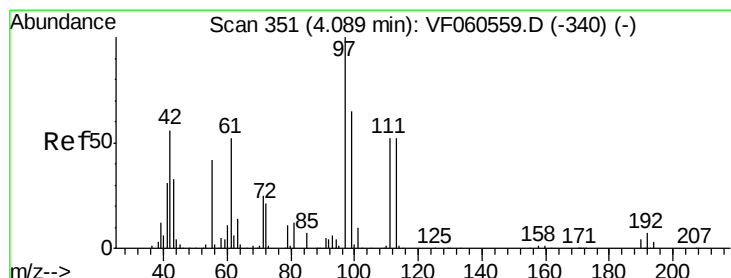
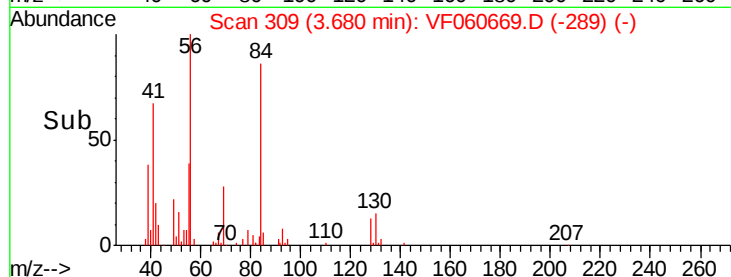
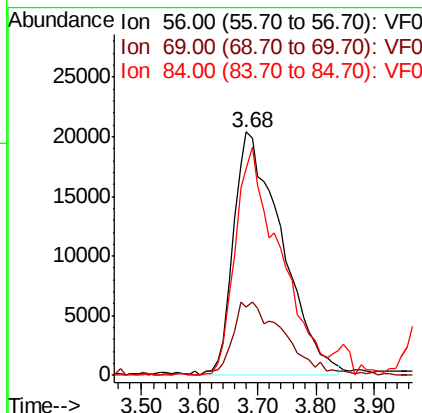
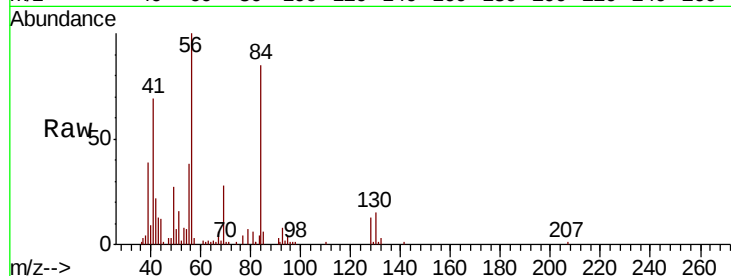
ClientSampleId :

VF1109SBS01

Tot Ion:	56	Resp:	118684
Ion Ratio	Lower	Upper	
56	100		
69	27.9	23.0	34.4
84	85.1	67.1	100.7

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#32

1,1,1-Trichloroethane

Concen: 26.861 ug/l

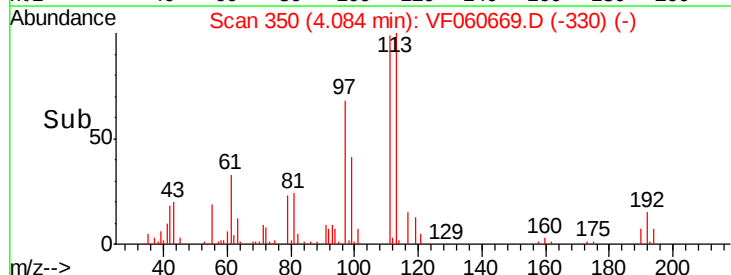
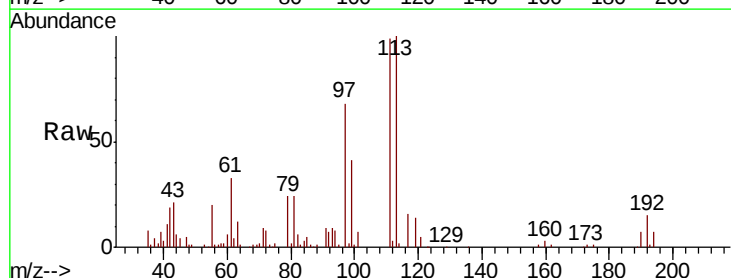
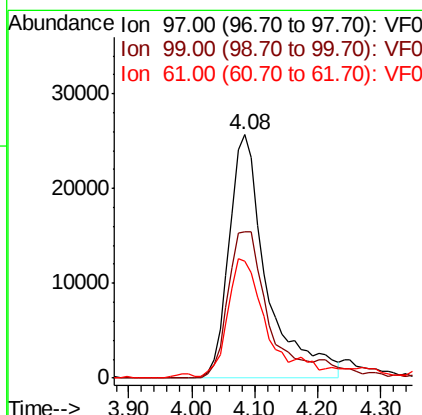
RT: 4.08 min Scan# 350

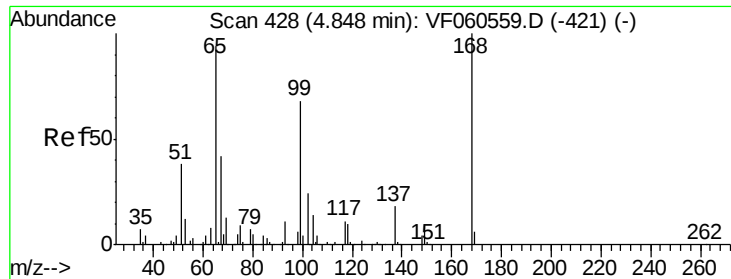
Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion:	97	Resp:	106542
Ion Ratio	Lower	Upper	
97	100		
99	60.4	52.4	78.6
61	48.0	41.5	62.3





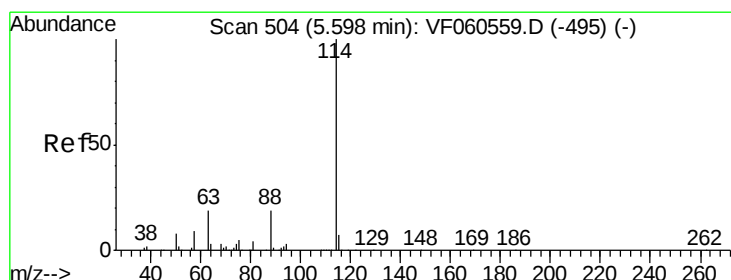
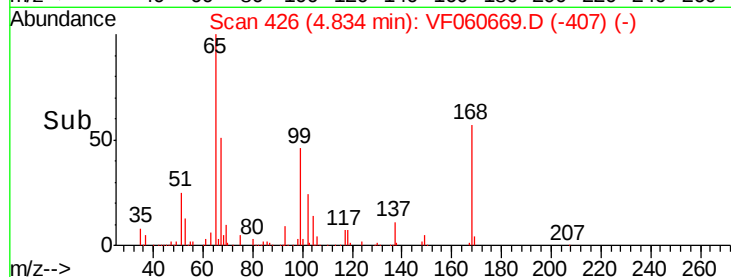
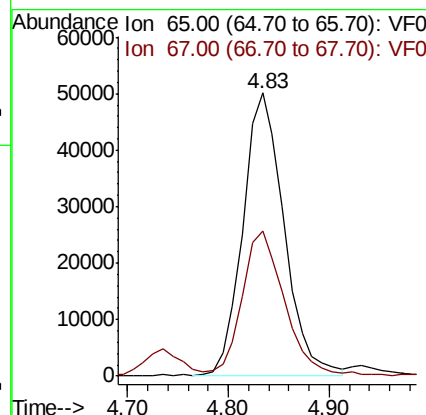
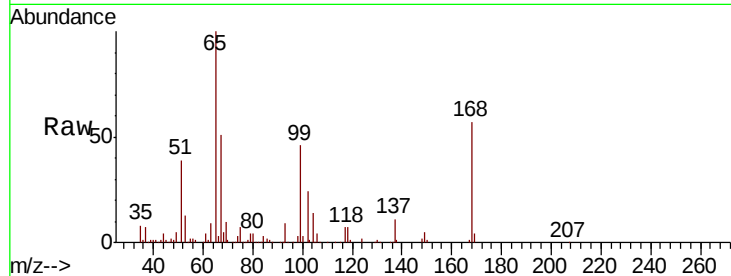
#33
 1,2-Dichloroethane-d4
 Concen: 57.496 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.01 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleID :
 VF1109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	143365		
67	51.4	0.0	101.8	

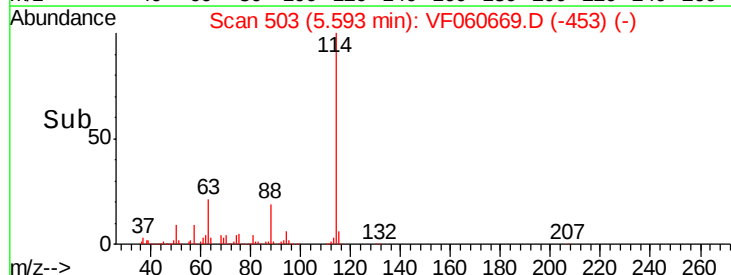
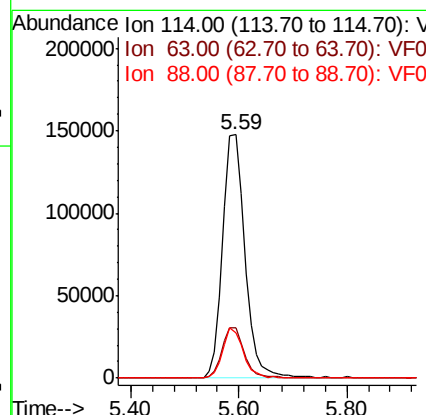
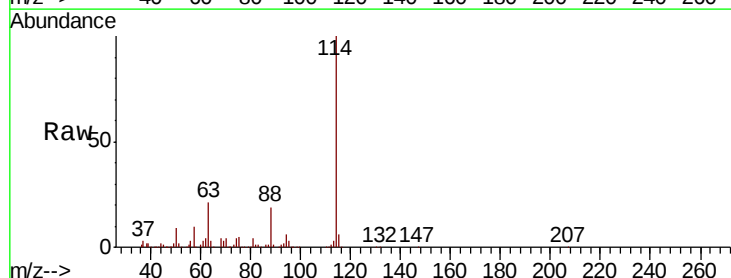
Manual Integrations
 APPROVED

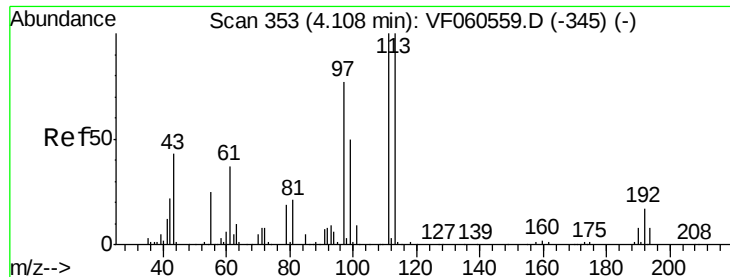
apatel
 11/12/2018 2:41:01 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	424948		
63	20.6	0.0	39.0	
88	18.6	0.0	38.2	





#35

Dibromofluoromethane

Concen: 53.873 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

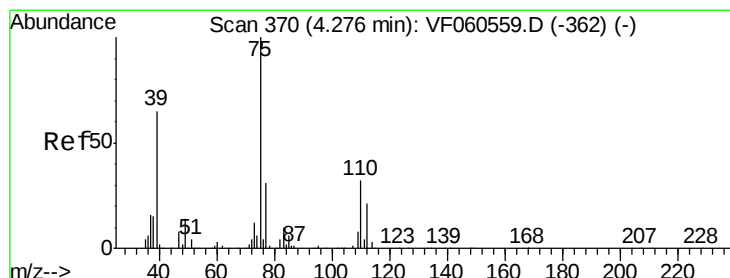
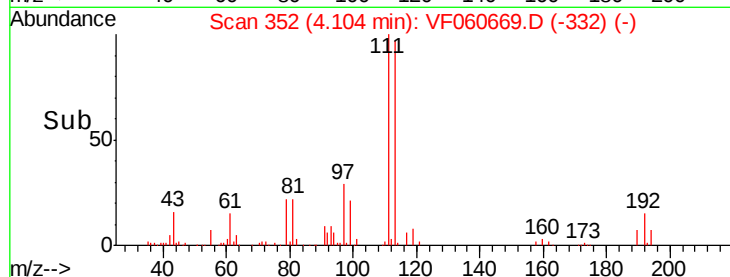
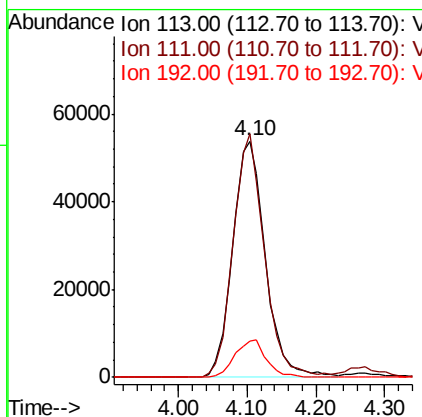
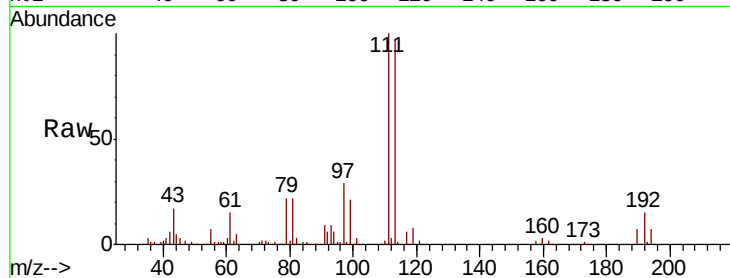
ClientSampleId :

VF1109SBS01

Tot Ion:	113	Resp:	176873
Ion Ratio	Lower	Upper	
113	100		
111	103.0	79.9	119.9
192	15.4	13.3	19.9

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#36

1,1-Dichloropropene

Concen: 21.764 ug/l

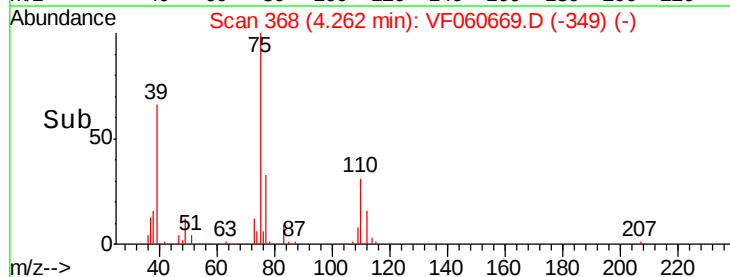
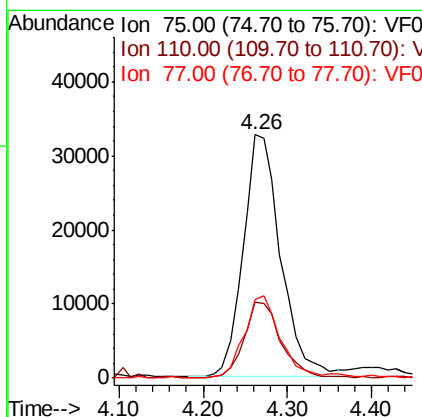
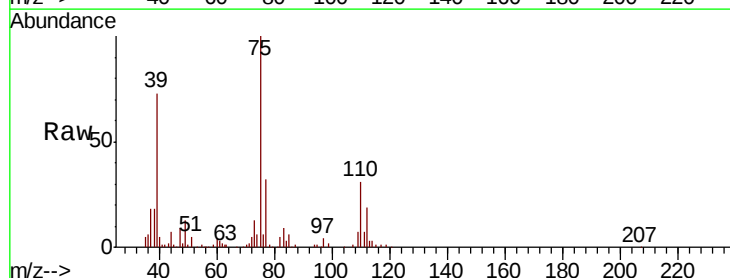
RT: 4.26 min Scan# 368

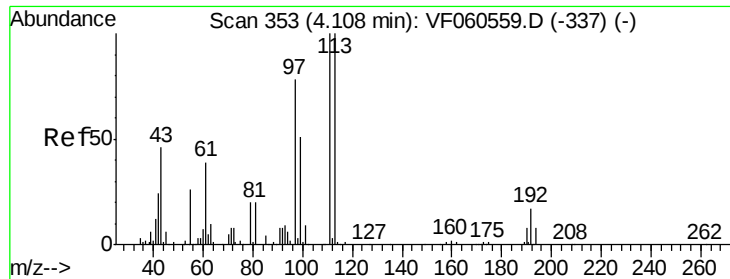
Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion:	75	Resp:	101831
Ion Ratio	Lower	Upper	
75	100		
110	31.2	16.2	48.6
77	32.3	25.0	37.6





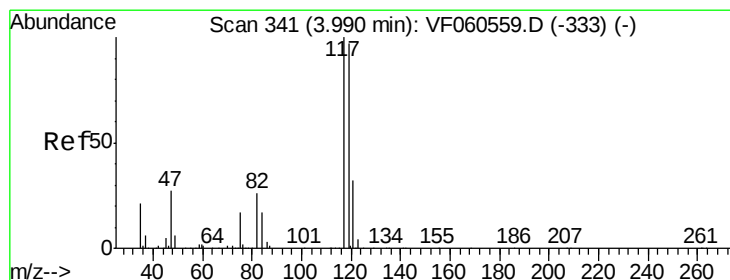
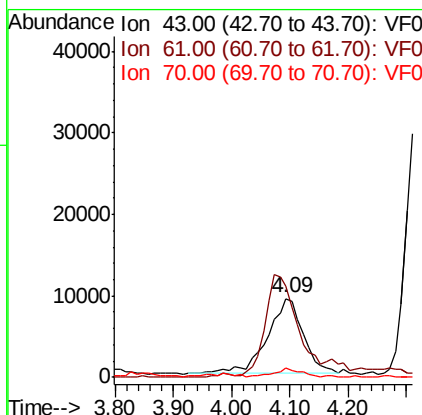
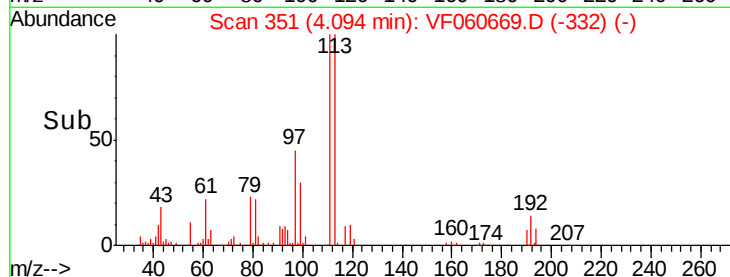
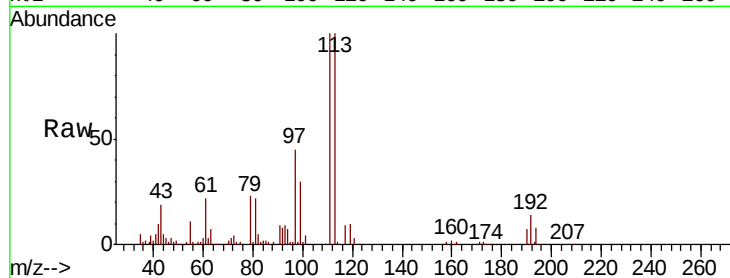
#37
Ethyl Acetate
Concen: 17.599 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	43	61	70
Resp	39528	115.8	12.2
Lower		63.4	9.3
Upper		95.2#	13.9

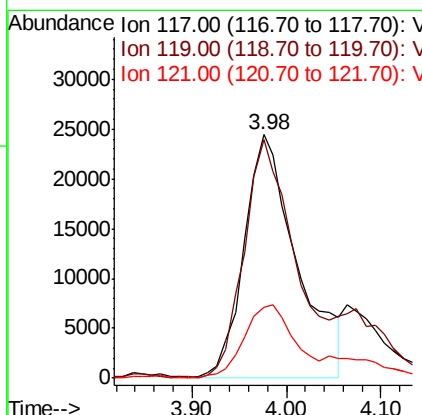
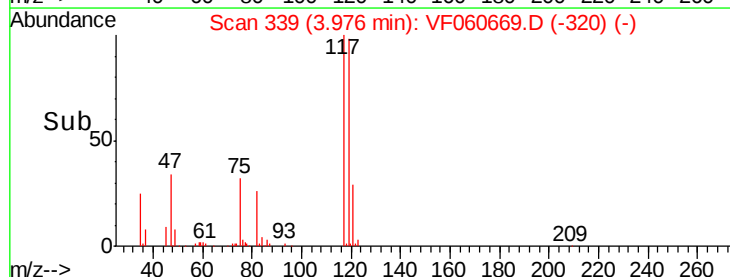
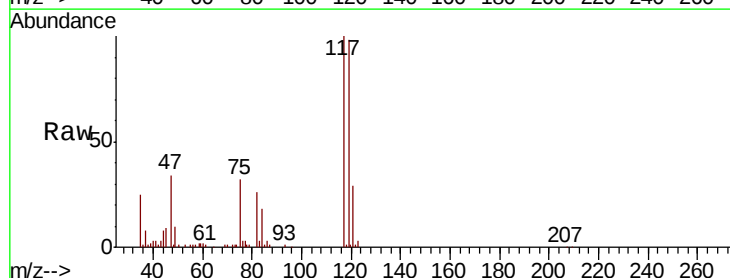
Manual Integrations
APPROVED

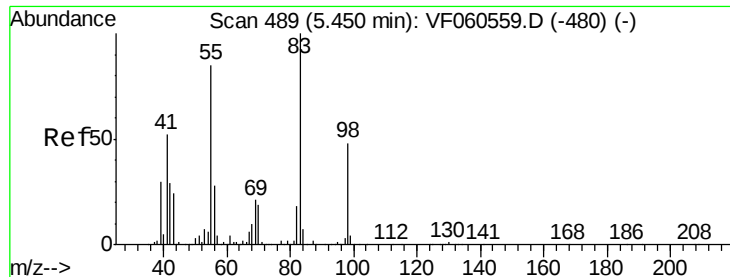
apatel
11/12/2018 2:41:01 PM



#38
Carbon Tetrachloride
Concen: 23.867 ug/l
RT: 3.98 min Scan# 339
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	117	119	121
Resp	95426	97.9	29.1
Lower		77.8	25.6
Upper		116.6	38.4





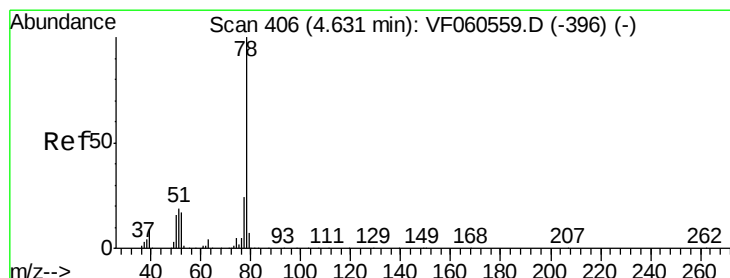
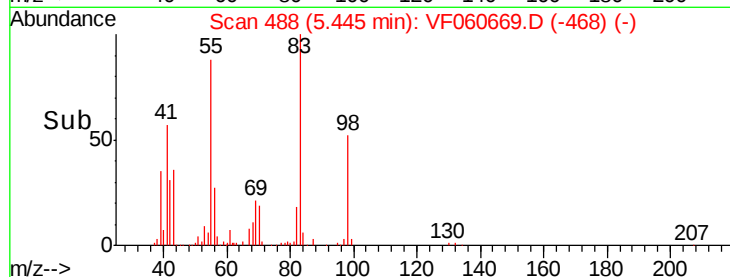
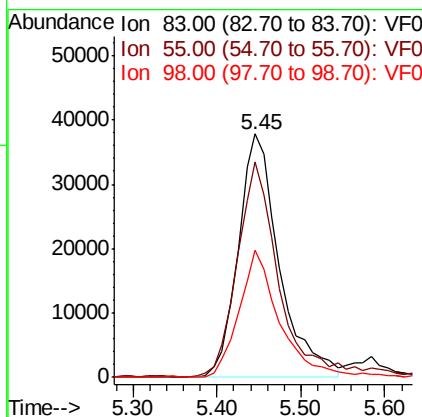
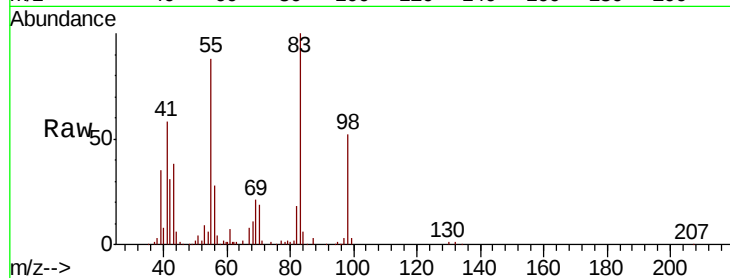
#39
Methvlcvclohexane
Concen: 22.613 ug/l
RT: 5.45 min Scan# 488
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	88.4	69.1	103.7
98	52.3	38.6	57.8

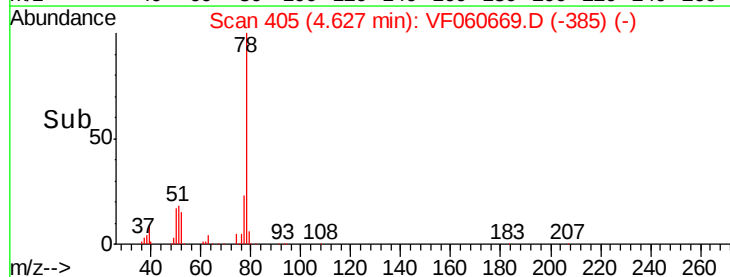
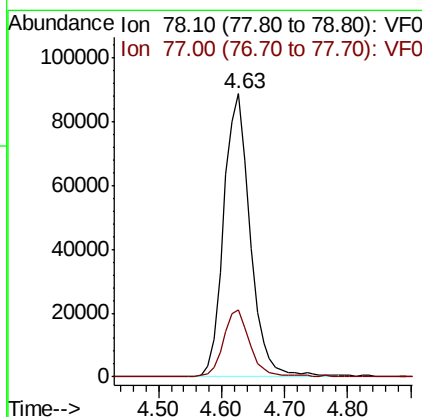
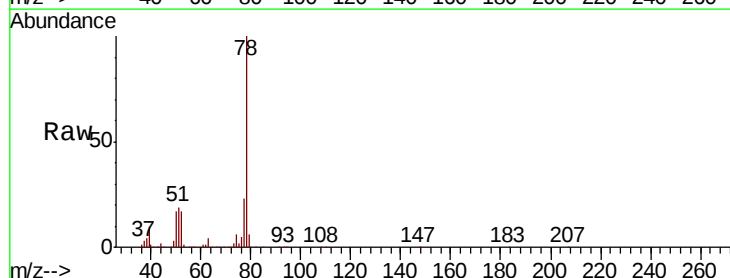
Manual Integrations
APPROVED

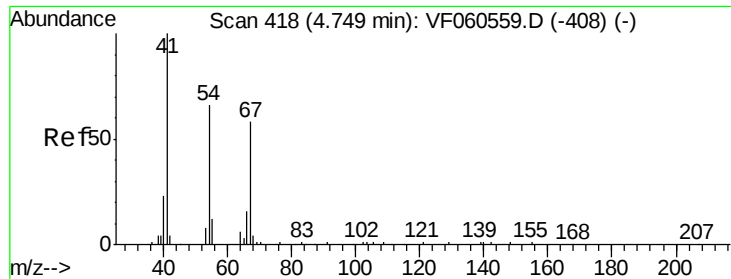
apatel
11/12/2018 2:41:01 PM



#40
Benzene
Concen: 22.868 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9





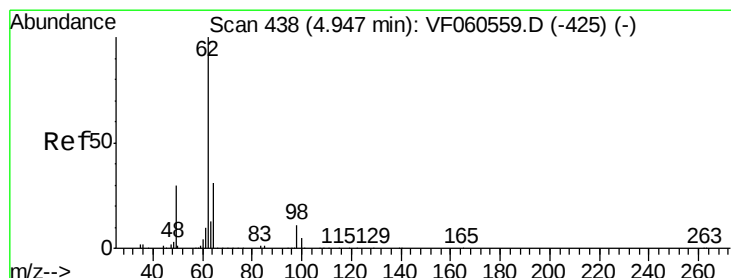
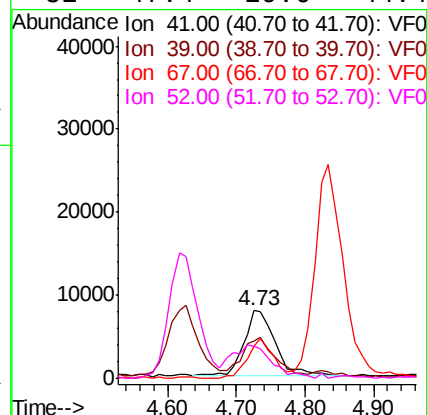
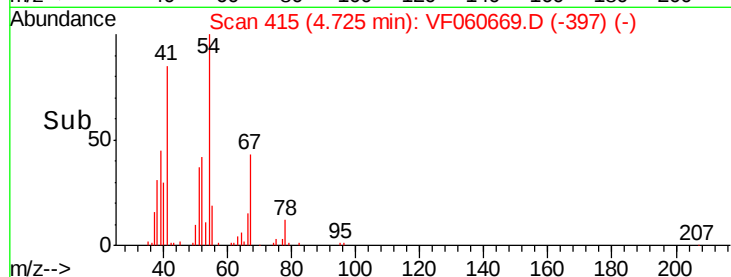
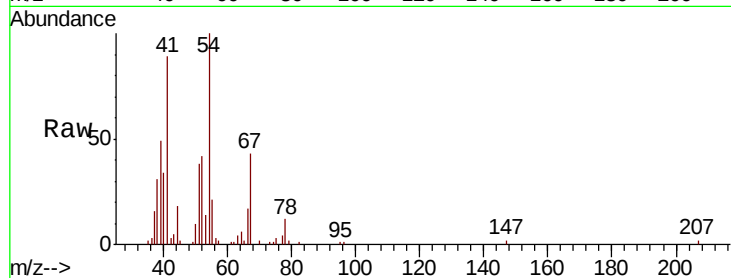
#41
Methacrylonitrile
Concen: 19.971 ug/l
RT: 4.73 min Scan# 415
Delta R.T. -0.02 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	55.4	45.6	68.4
67	48.3	45.3	67.9
52	47.4	29.6	44.4

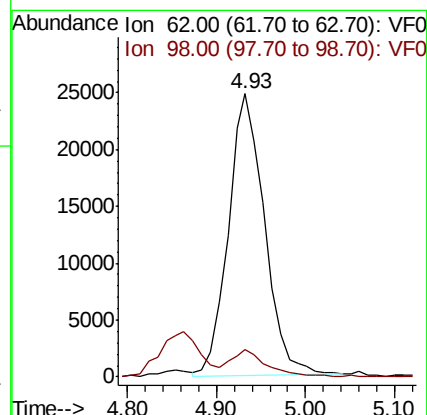
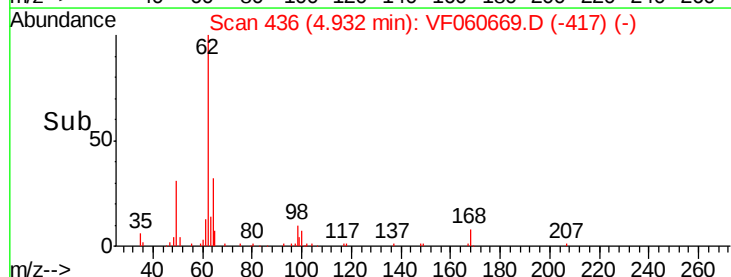
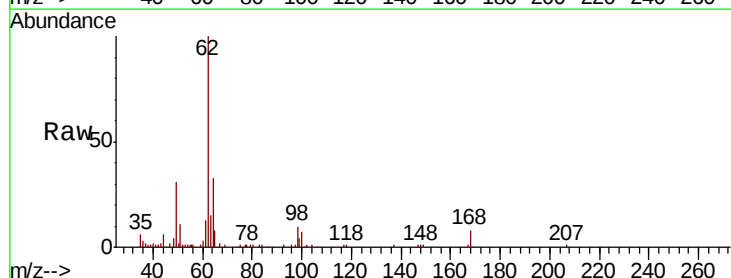
Manual Integrations
APPROVED

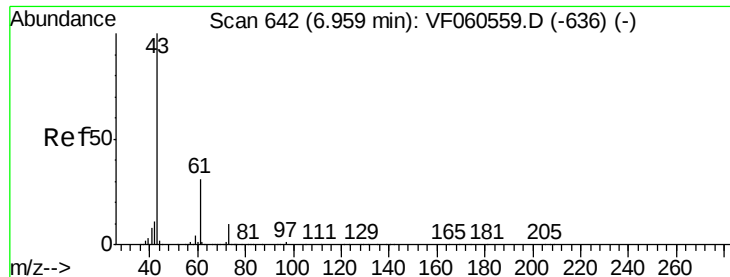
apatel
11/12/2018 2:41:01 PM



#42
1,2-Dichloroethane
Concen: 21.586 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	22.4





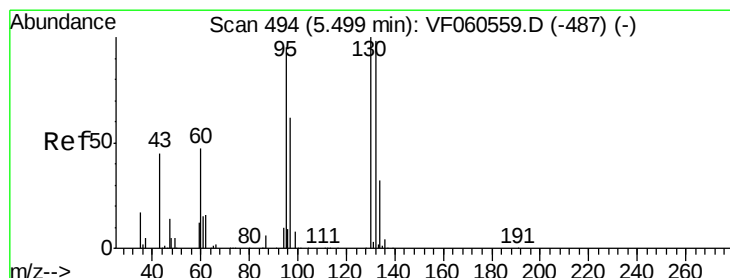
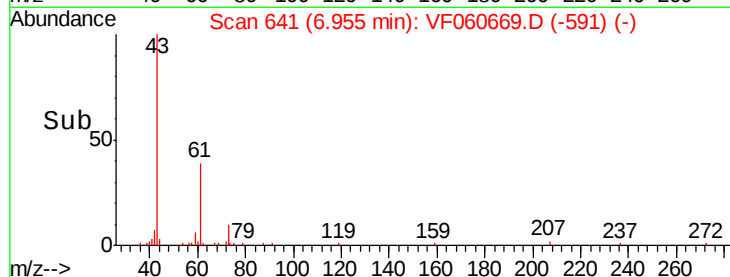
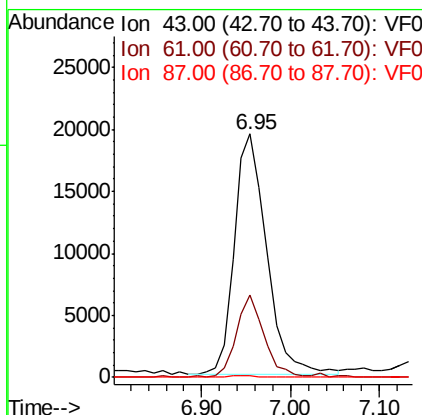
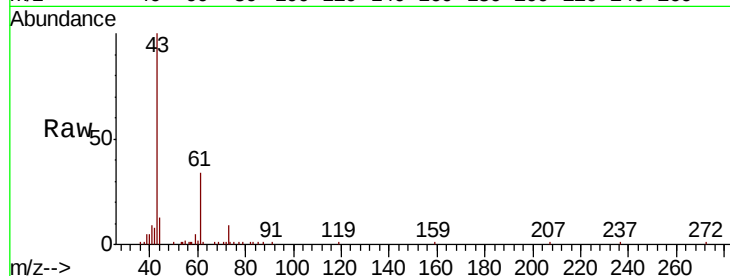
#43
Isopropyl Acetate
Concen: 17.364 ug/l
RT: 6.95 min Scan# 641
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	34.0	24.2	36.2
87	0.7	0.2	0.4

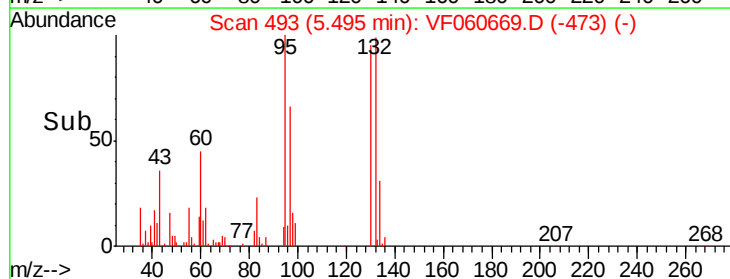
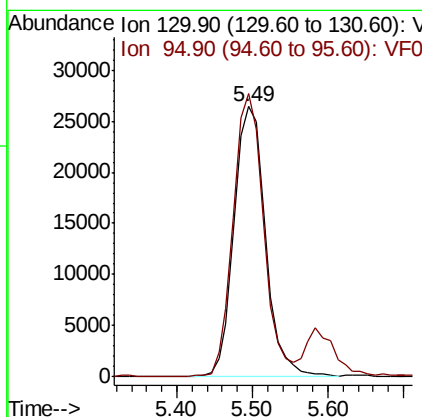
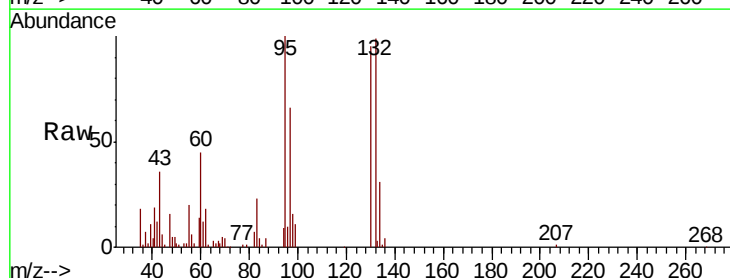
Manual Integrations
APPROVED

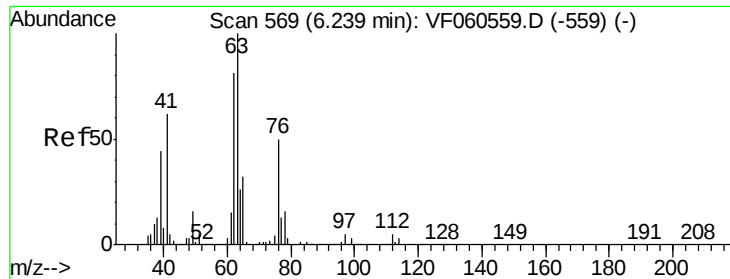
apatel
11/12/2018 2:41:01 PM



#44
Trichloroethene
Concen: 22.281 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.8	0.0	191.0





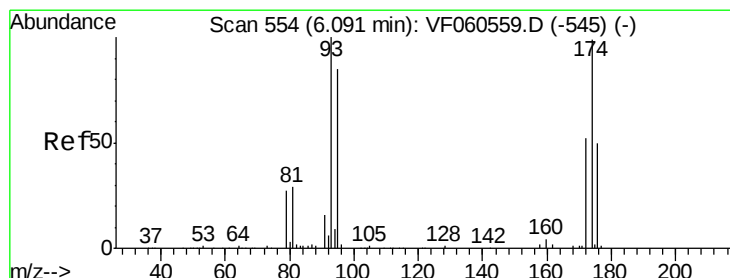
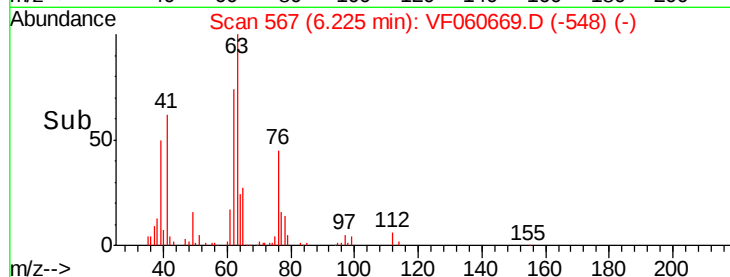
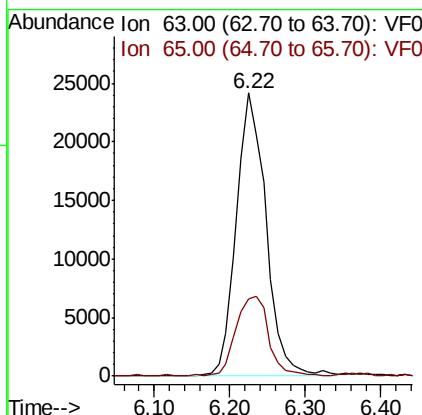
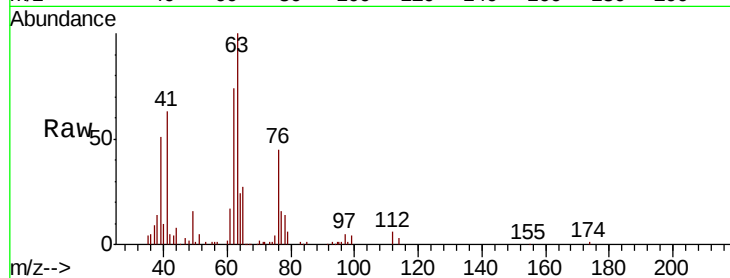
#45
 1,2-Dichloropropane
 Concen: 22.742 ug/l
 RT: 6.22 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1109SBS01

Tot Ion: 63 Resp: 66059
 Ion Ratio Lower Upper
 63 100
 65 27.4 25.4 38.0

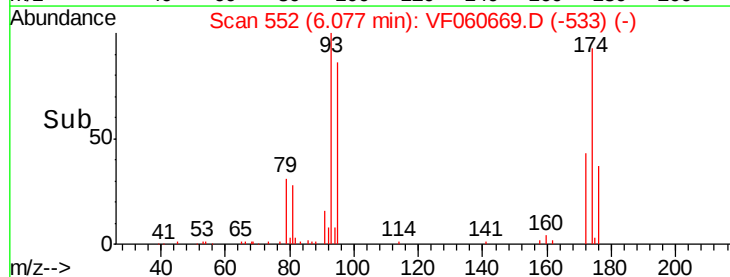
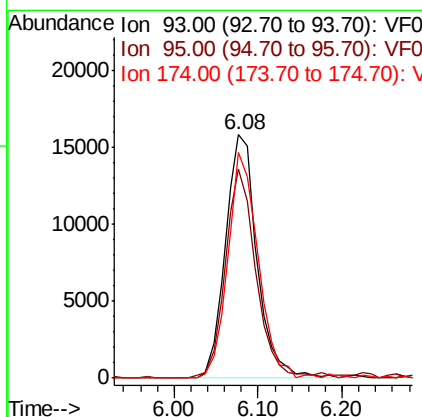
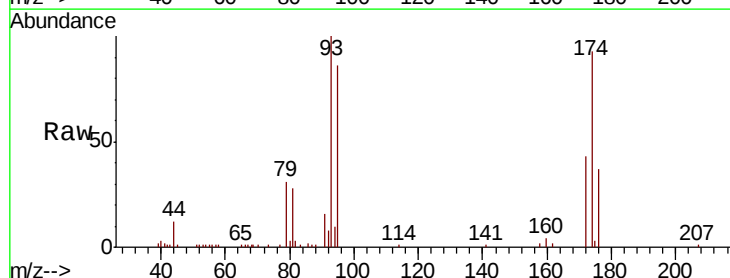
Manual Integrations
 APPROVED

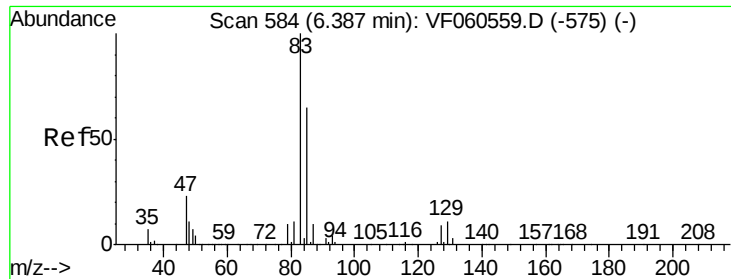
apatel
 11/12/2018 2:41:01 PM



#46
 Dibromomethane
 Concen: 22.408 ug/l
 RT: 6.08 min Scan# 552
 Delta R.T. -0.01 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Tgt Ion: 93 Resp: 41293
 Ion Ratio Lower Upper
 93 100
 95 85.8 68.6 102.8
 174 92.9 79.0 118.4





#47

Bromodichloromethane

Concen: 22.175 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

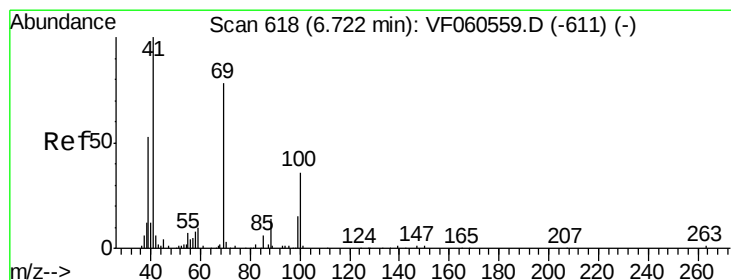
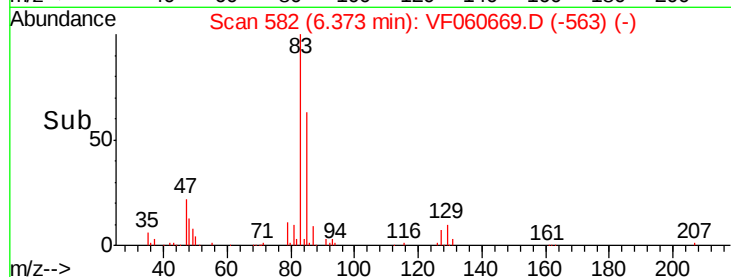
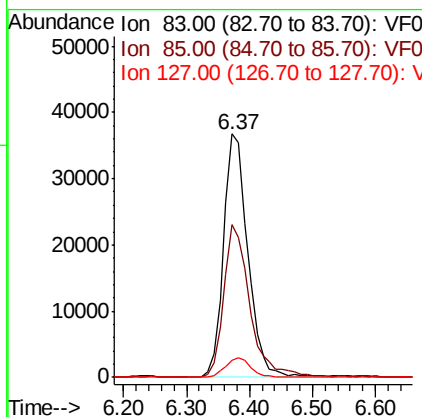
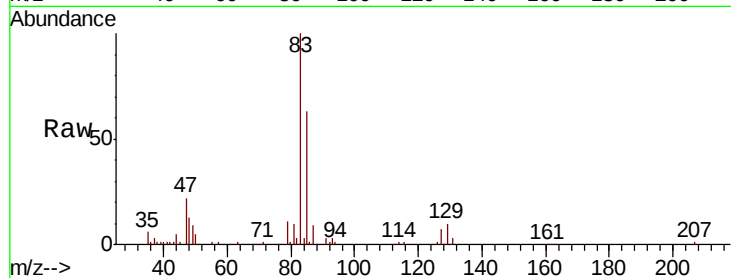
ClientSampleId :

VF1109SBS01

Tot Ion:	83	Resp:	98562
Ion Ratio	Lower	Upper	
83	100		
85	62.7	51.8	77.6
127	6.8	7.0	10.4#

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#48

Methyl methacrylate

Concen: 16.783 ug/l

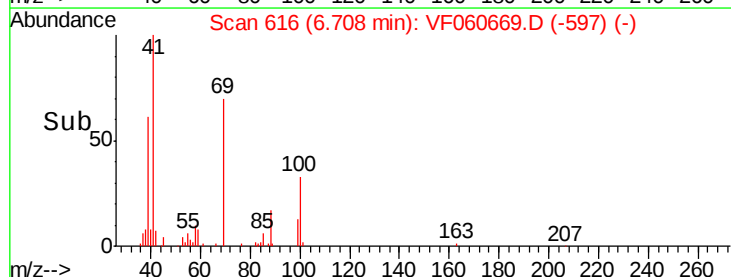
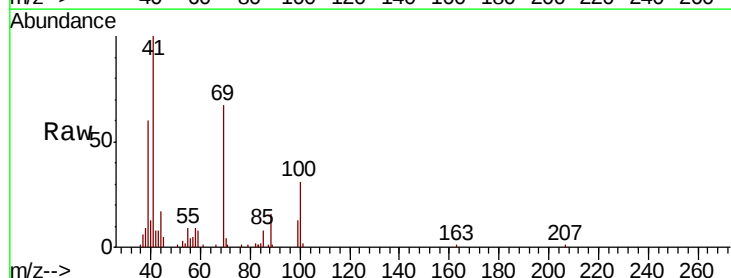
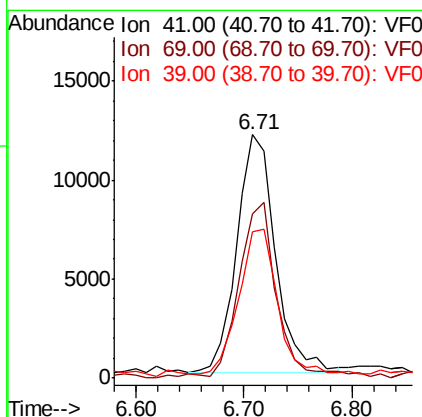
RT: 6.71 min Scan# 616

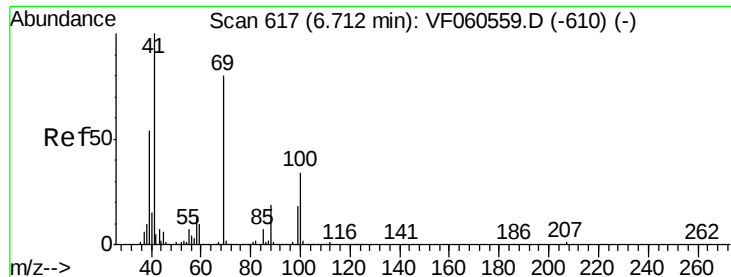
Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion:	41	Resp:	29968
Ion Ratio	Lower	Upper	
41	100		
69	67.2	61.1	91.7
39	60.3	43.0	64.6





#49

1,4-Dioxane

Concen: 326.409 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

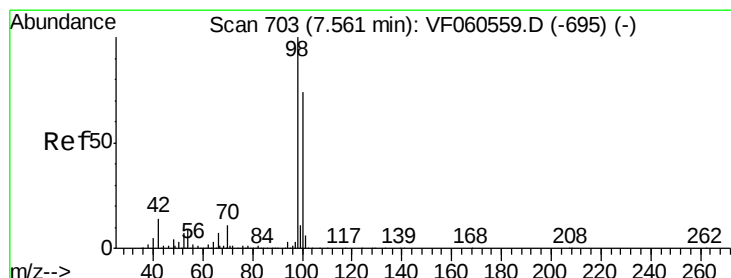
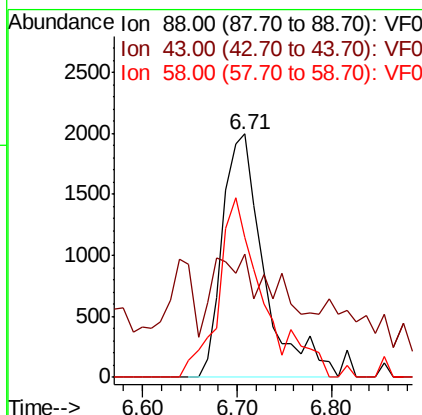
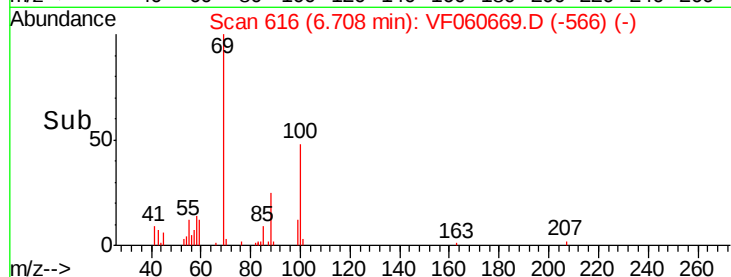
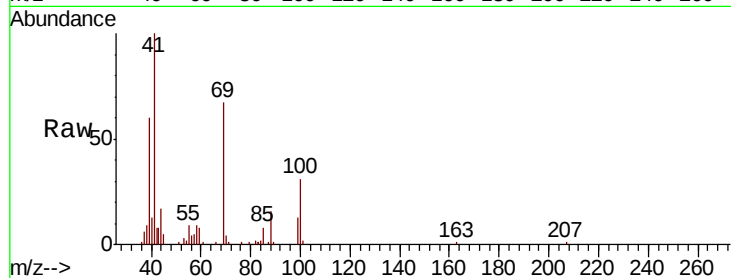
ClientSampleId :

VF1109SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	50.8	61.2	91.8#
58	57.4	56.9	85.3

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#50

Toluene-d8

Concen: 49.261 ug/l

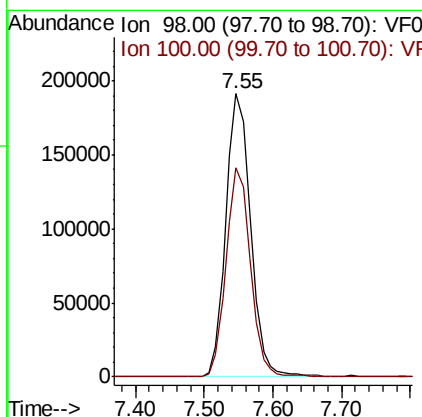
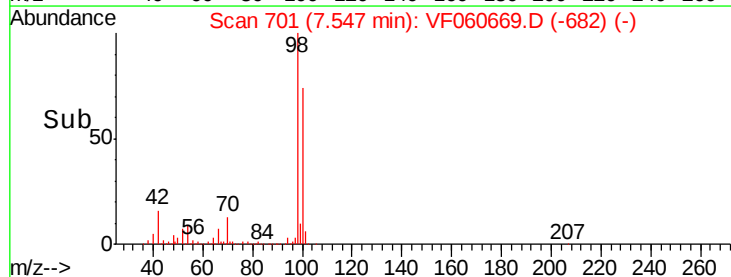
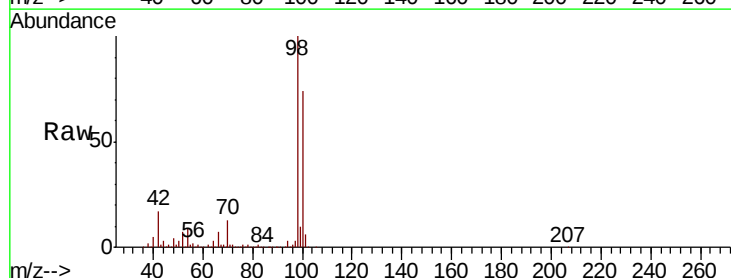
RT: 7.55 min Scan# 701

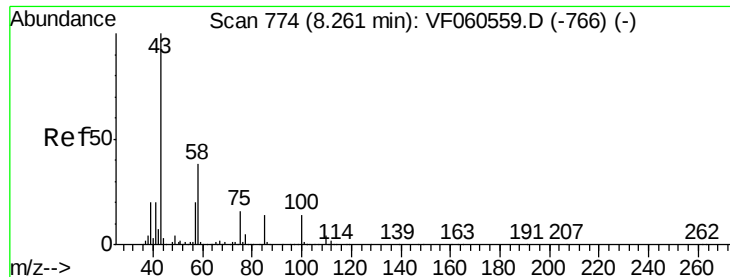
Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
98	100		
100	73.7	59.4	89.2





#51

4-Methyl-2-Pentanone

Concen: 95.635 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion: 43 Resp: 182714

Ion Ratio Lower Upper

43 100

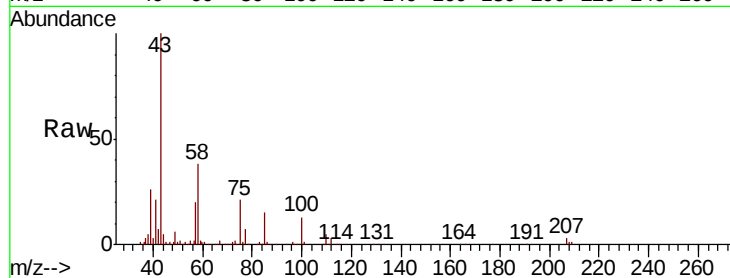
58 37.7 30.1 45.1

Manual Integrations

APPROVED

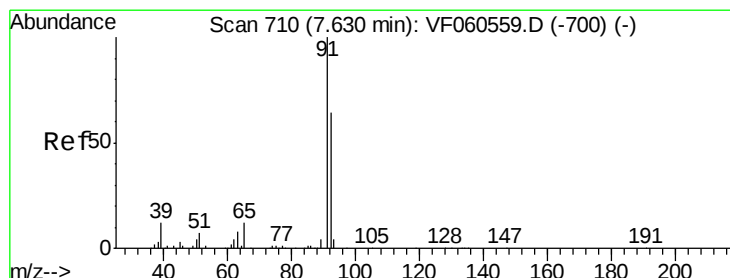
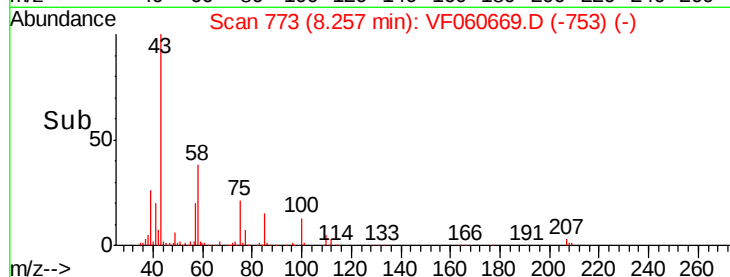
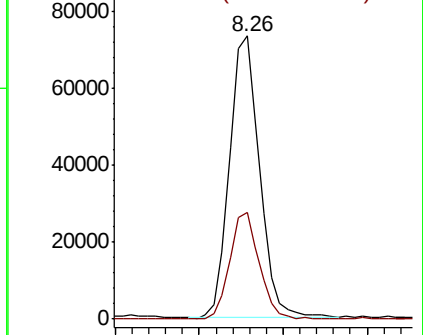
apatel

11/12/2018 2:41:01 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.487 ug/l

RT: 7.62 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF060669.D

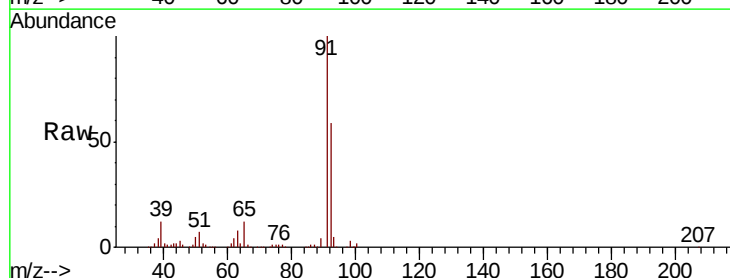
Acq: 9 Nov 2018 13:21

Tgt Ion: 92 Resp: 151572

Ion Ratio Lower Upper

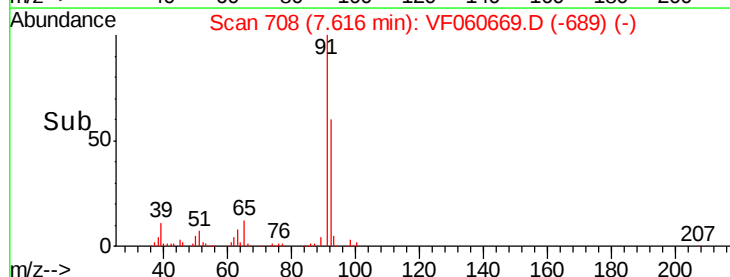
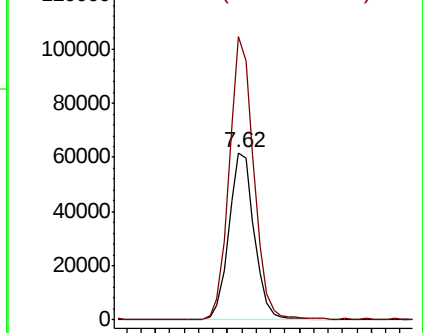
92 100

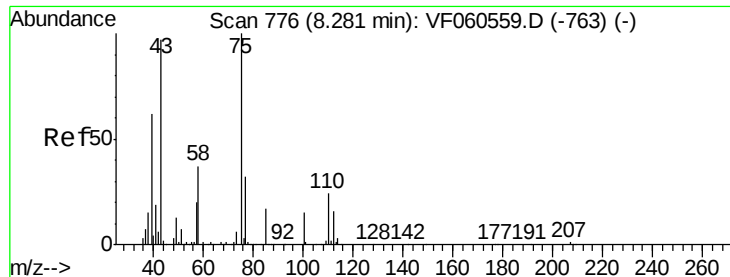
91 169.2 124.5 186.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 19.942 ug/l

RT: 8.28 min Scan# 775

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion: 75 Resp: 77039

Ion Ratio Lower Upper

75 100

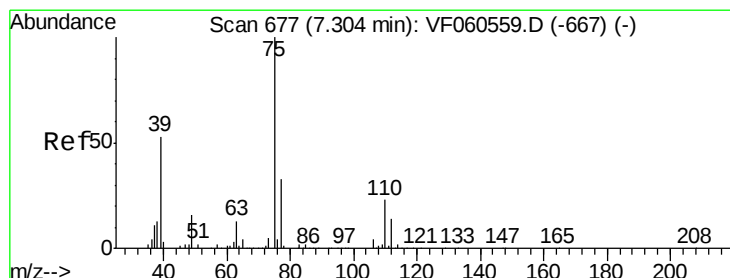
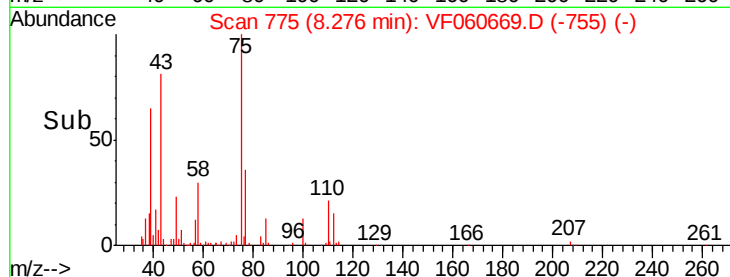
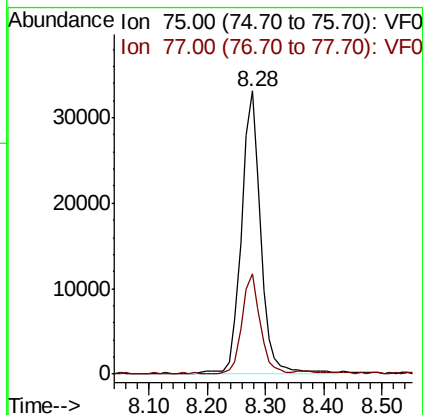
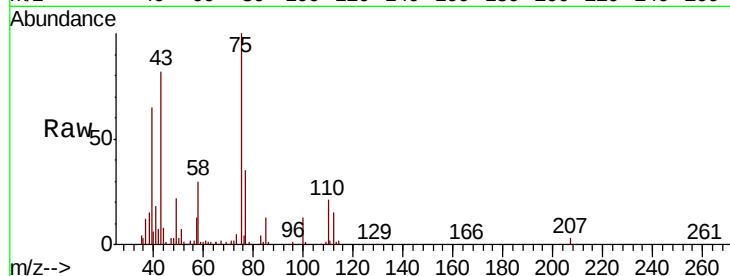
77 35.5 25.7 38.5

Manual Integrations

APPROVED

apatel

11/12/2018 2:41:01 PM



#54

cis-1,3-Dichloropropene

Concen: 20.464 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

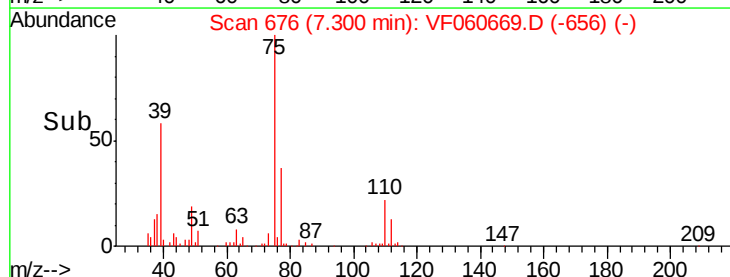
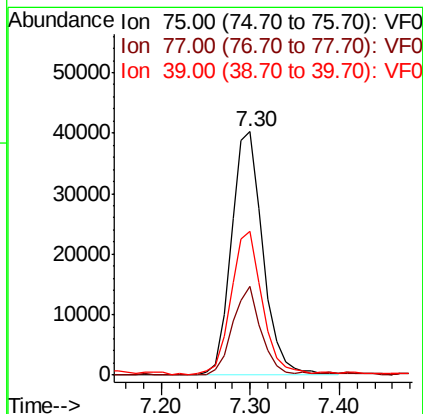
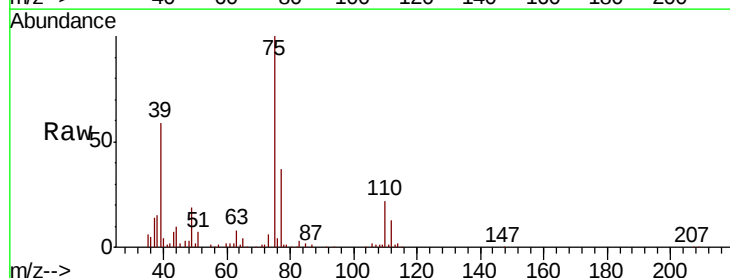
Tgt Ion: 75 Resp: 99882

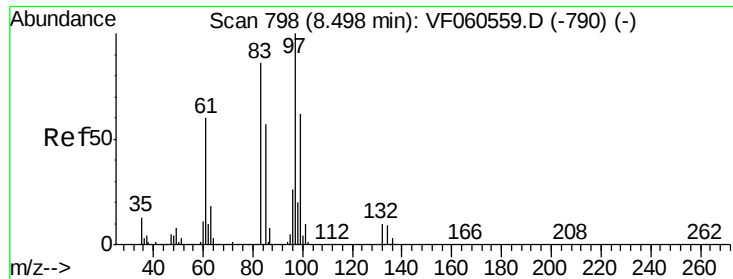
Ion Ratio Lower Upper

75 100

77 36.5 26.7 40.1

39 59.1 43.0 64.4





#55

1,1,2-Trichloroethane

Concen: 20.455 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

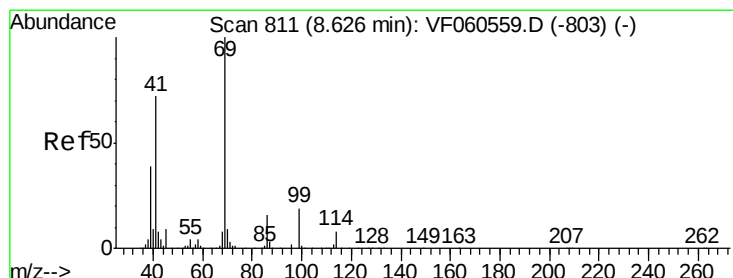
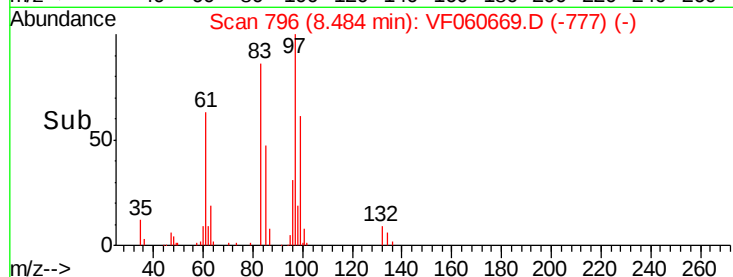
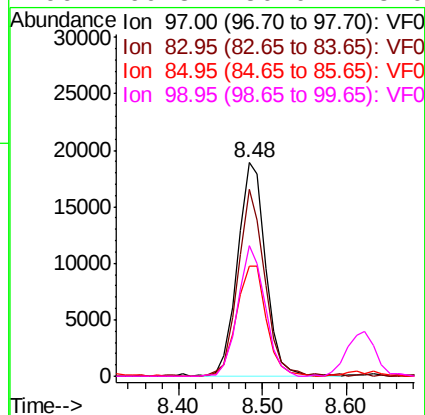
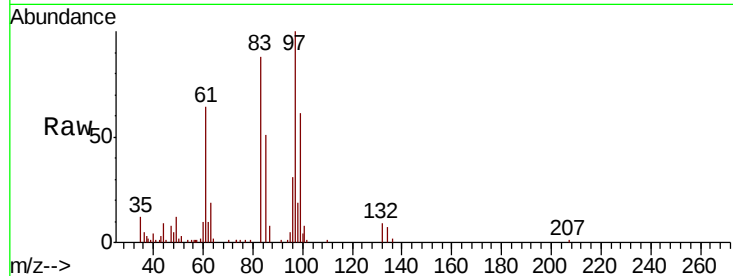
ClientSampleId :

VF1109SBS01

Tot Ion:	97	Resp:	44037
Ion	Ratio	Lower	Upper
97	100		
83	87.7	69.4	104.0
85	51.4	46.6	69.8
99	60.8	50.0	75.0

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#56

Ethyl methacrylate

Concen: 17.525 ug/l

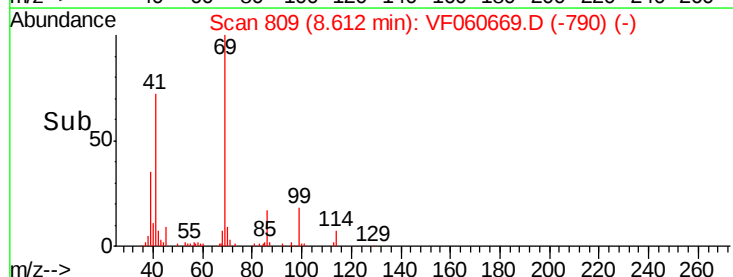
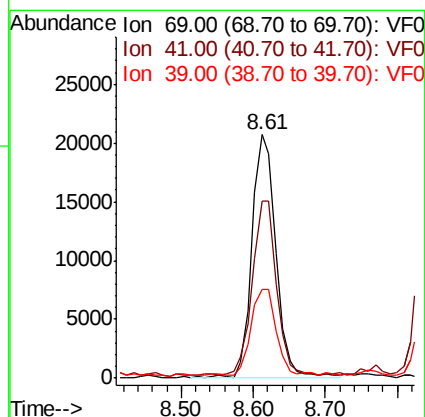
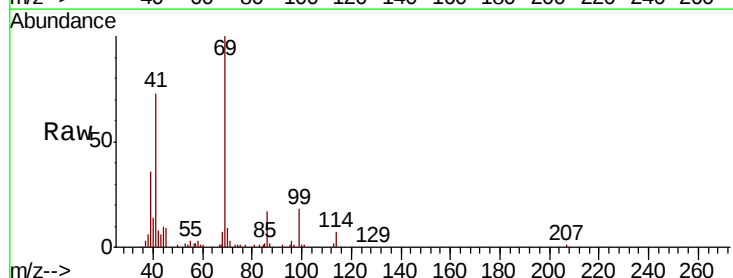
RT: 8.61 min Scan# 809

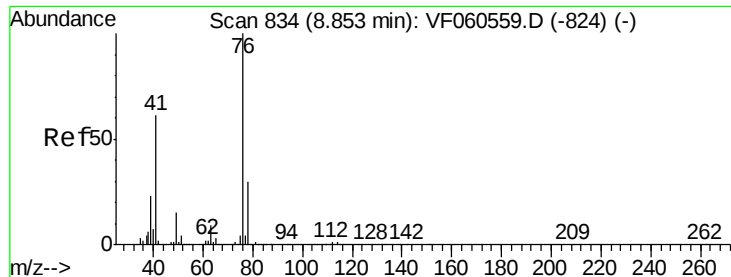
Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion:	69	Resp:	48544
Ion	Ratio	Lower	Upper
69	100		
41	72.6	59.2	88.8
39	36.4	32.3	48.5





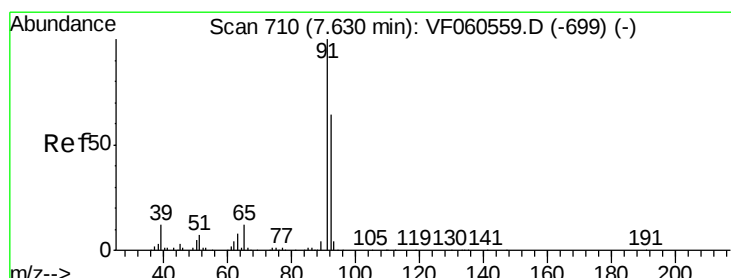
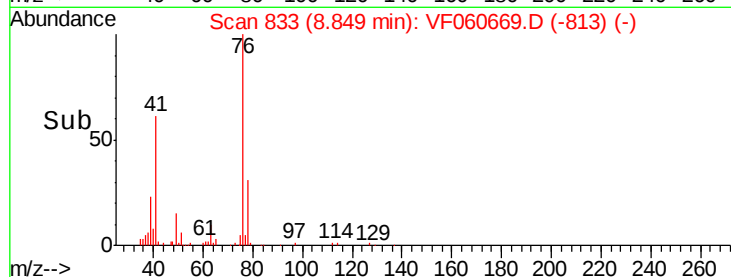
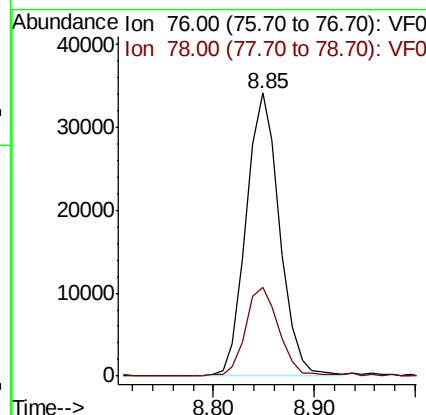
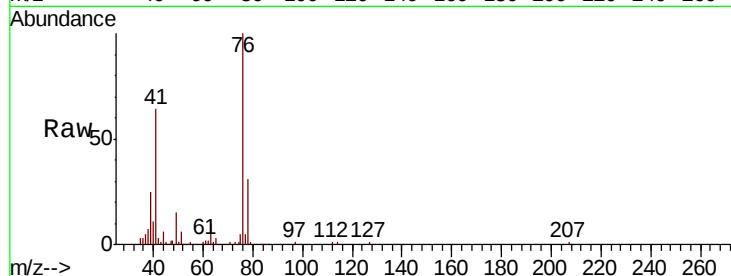
#57
 1,3-Dichloropropane
 Concen: 20.917 ug/l
 RT: 8.85 min Scan# 833
 Delta R.T. -0.00 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1109SBS01

Tot Ion: 76 Resp: 79016
 Ion Ratio Lower Upper
 76 100
 78 31.4 24.2 36.4

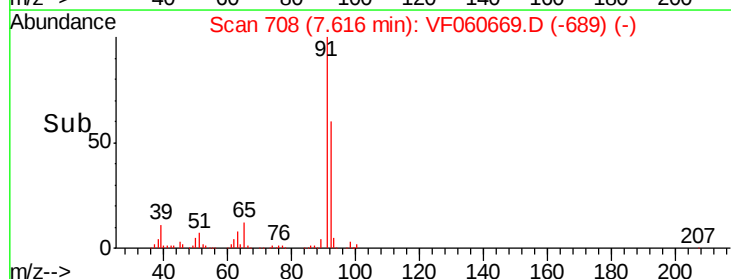
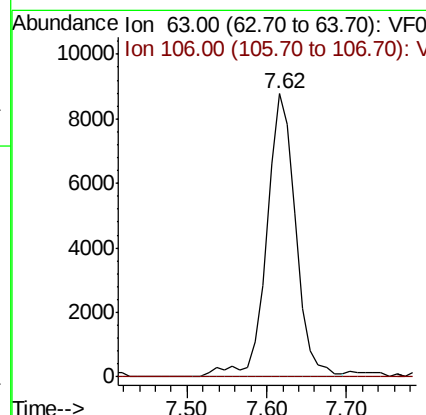
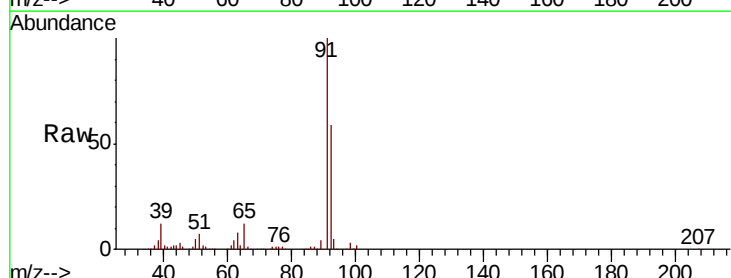
Manual Integrations
 APPROVED

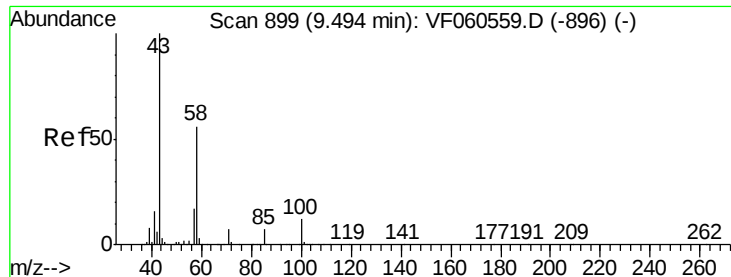
apatel
 11/12/2018 2:41:01 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 114.176 ug/l
 RT: 7.62 min Scan# 708
 Delta R.T. -0.01 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Tgt Ion: 63 Resp: 22238
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0





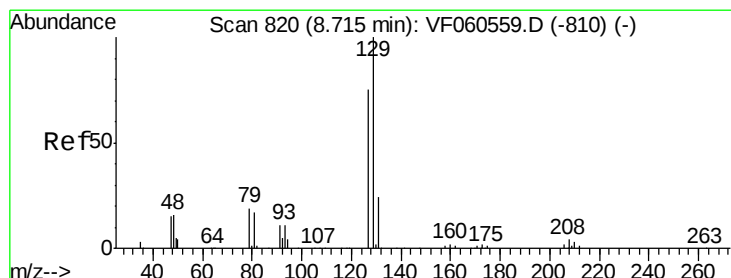
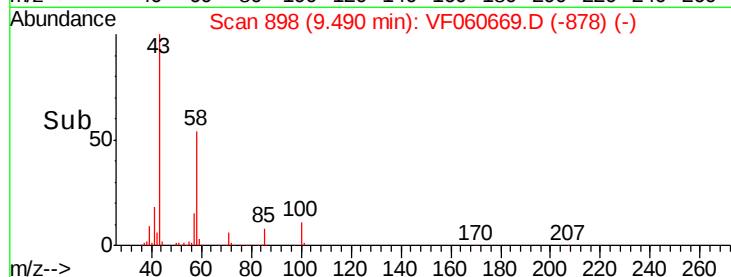
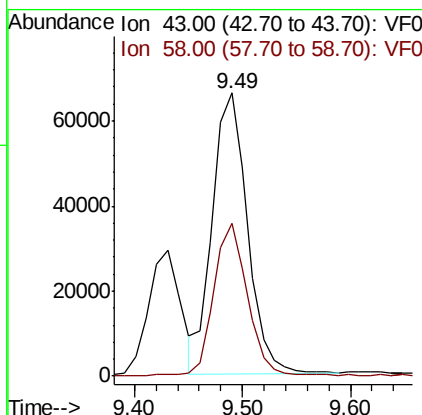
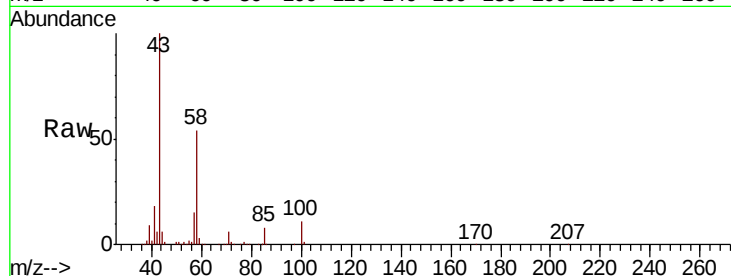
#59
2-Hexanone
Concen: 101.972 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.9	26.1	78.3

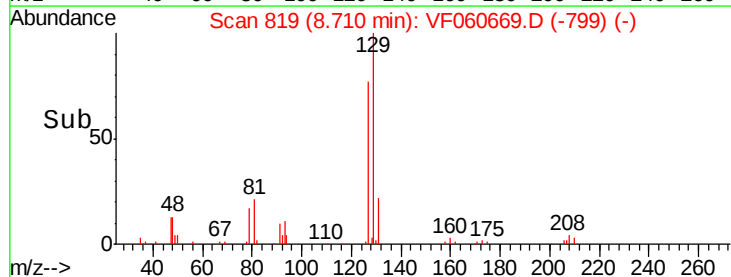
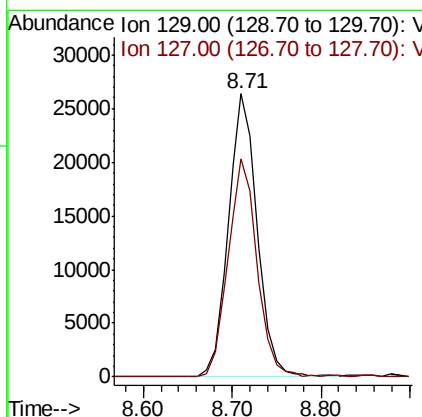
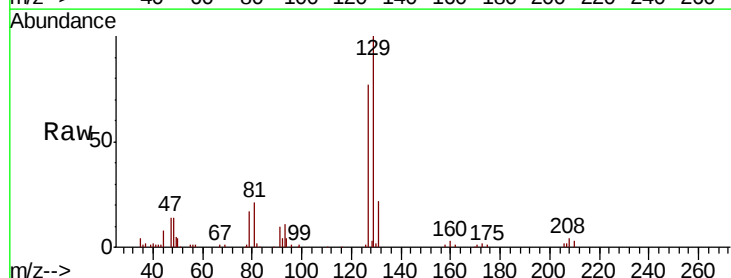
Manual Integrations
APPROVED

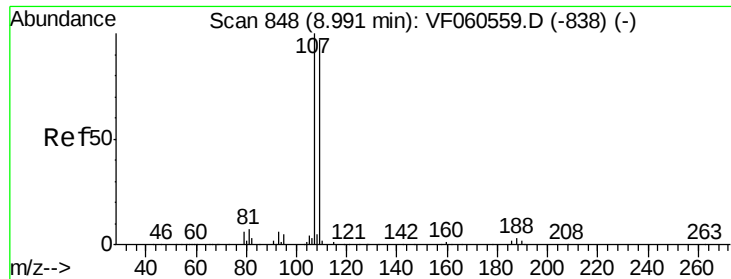
apatel
11/12/2018 2:41:01 PM



#60
Dibromochloromethane
Concen: 19.847 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.2	37.8	113.3





#61

1,2-Dibromoethane

Concen: 20.617 ug/l

RT: 8.99 min Scan# 847

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion:107 Resp: 46677

Ion Ratio Lower Upper

107 100

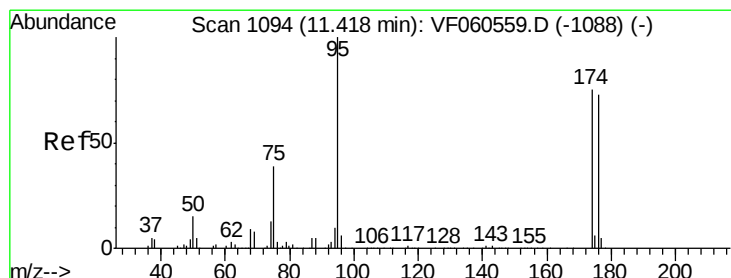
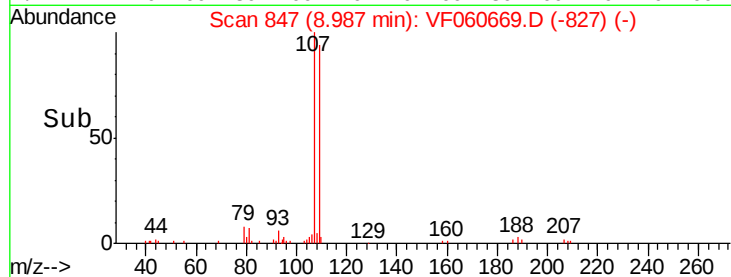
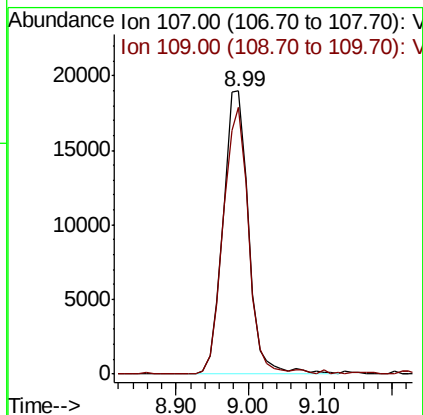
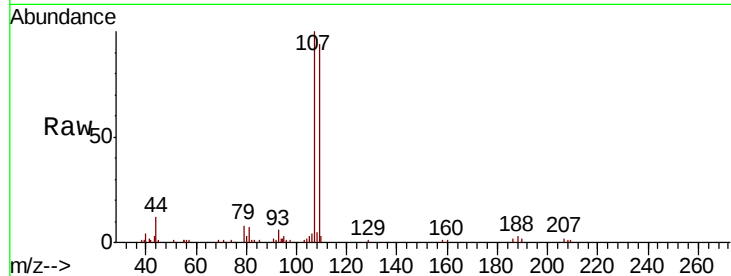
109 94.1 77.5 116.3

Manual Integrations

APPROVED

apatel

11/12/2018 2:41:01 PM



#62

4-Bromofluorobenzene

Concen: 50.302 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

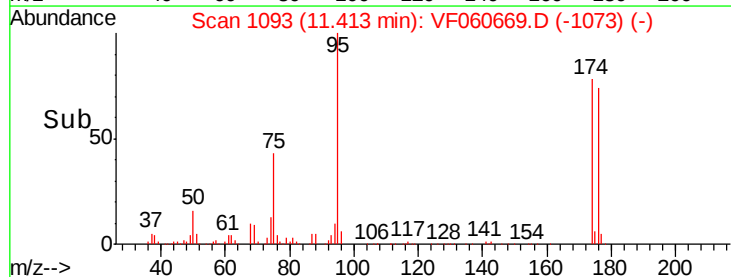
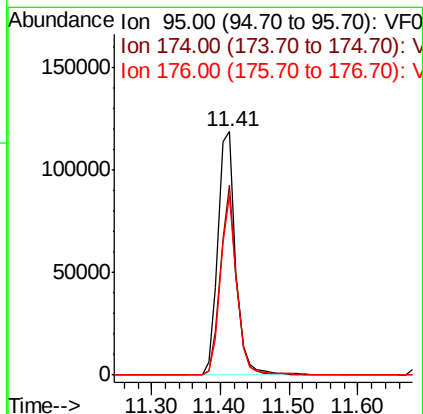
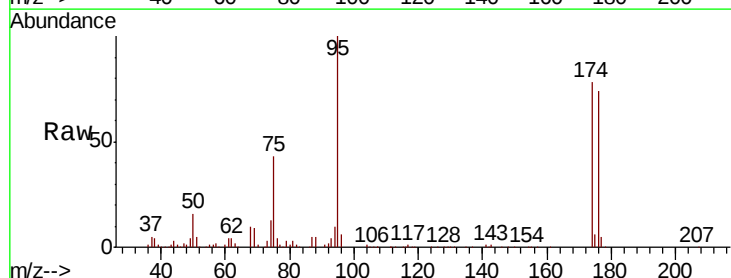
Tgt Ion: 95 Resp: 213991

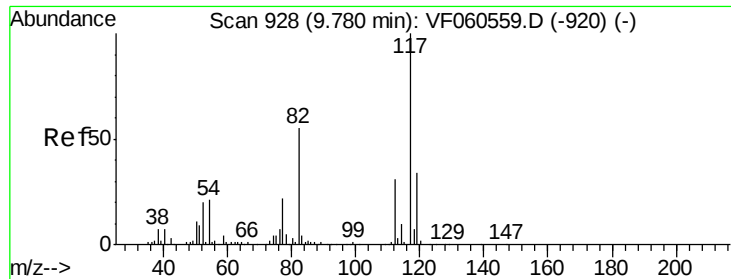
Ion Ratio Lower Upper

95 100

174 78.2 0.0 149.0

176 73.9 0.0 145.6





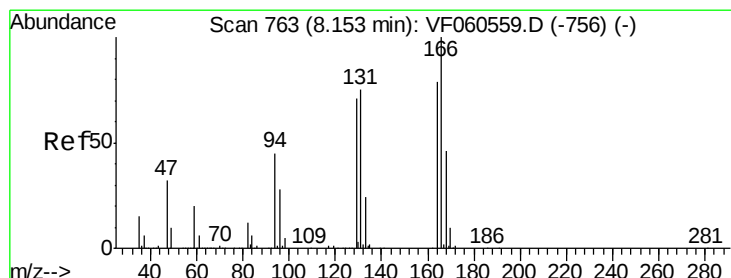
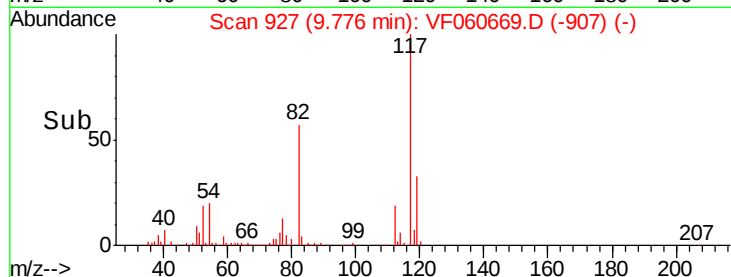
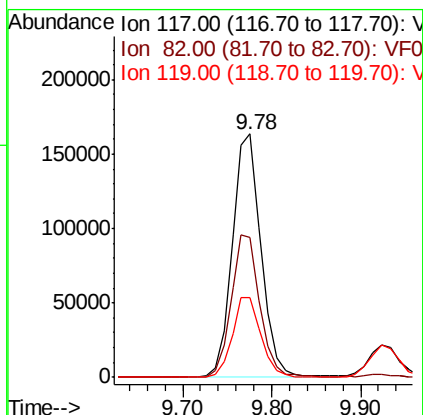
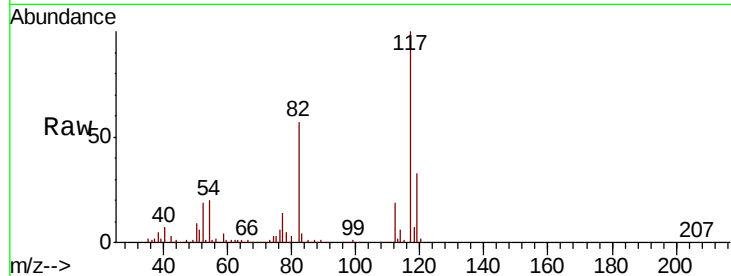
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	368868		
82	57.5	43.9	65.9	
119	32.5	27.4	41.0	

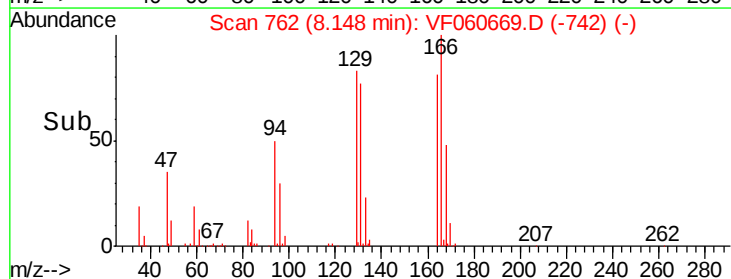
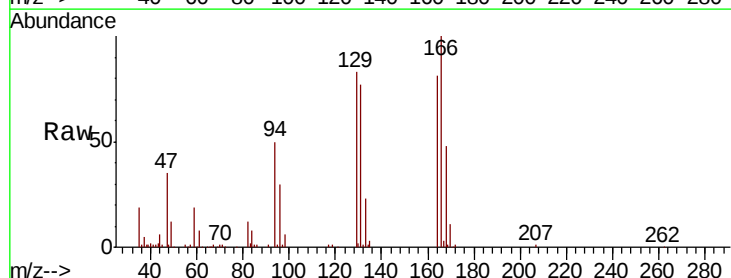
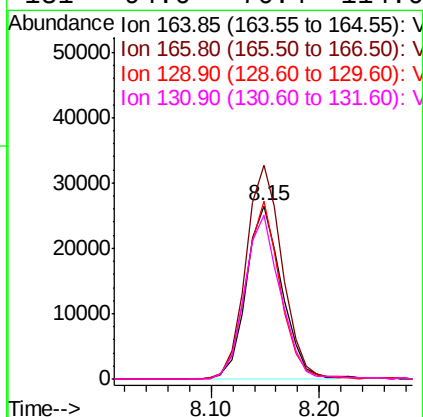
Manual Integrations
APPROVED

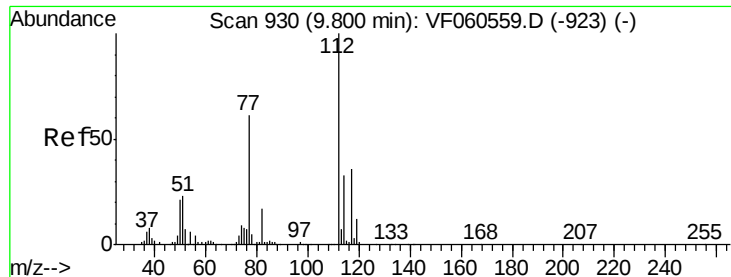
apatel
11/12/2018 2:41:01 PM



#64
Tetrachloroethene
Concen: 20.870 ug/l
RT: 8.15 min Scan# 762
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	60333		
166	123.5	101.5	152.3	
129	102.6	72.5	108.7	
131	94.6	76.4	114.6	





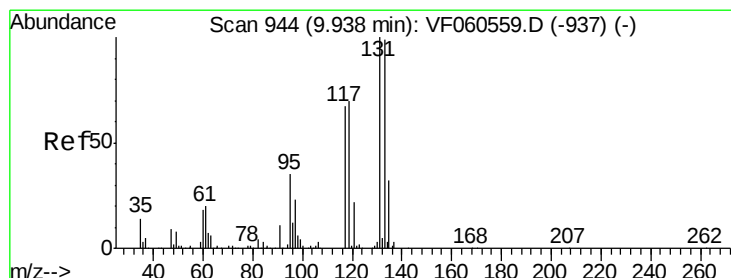
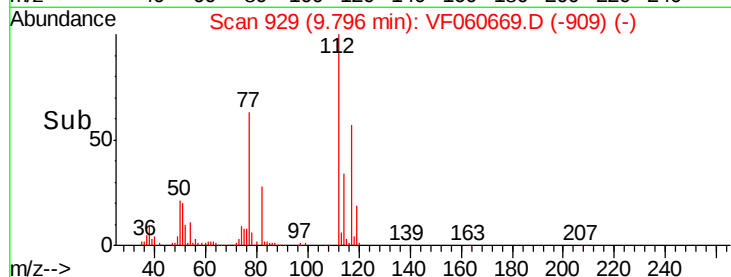
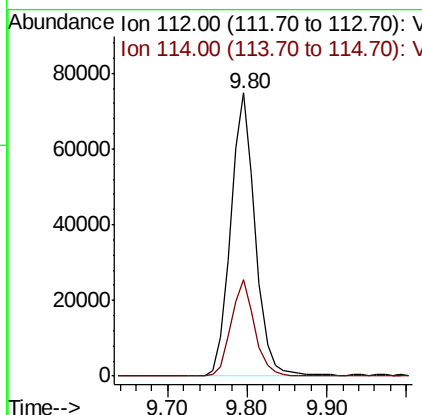
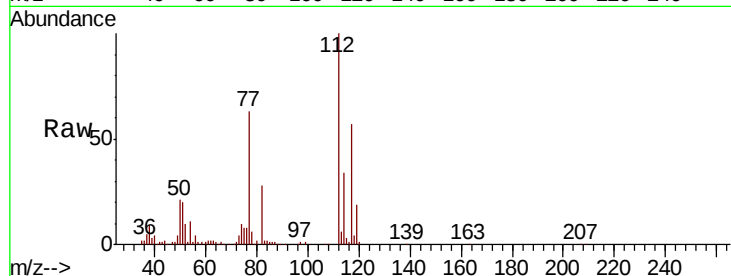
#65
Chlorobenzene
Concen: 21.360 ug/l
RT: 9.80 min Scan# 929
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	34.3	26.6	40.0

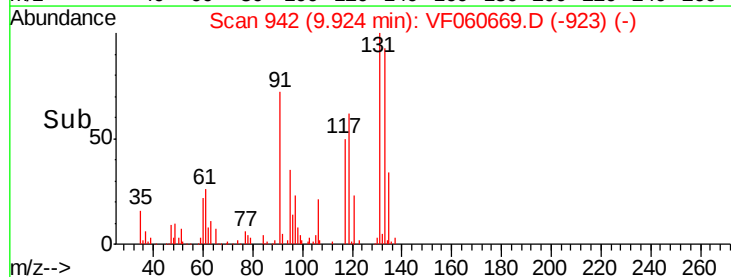
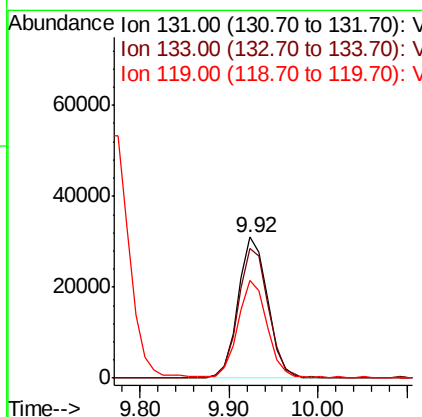
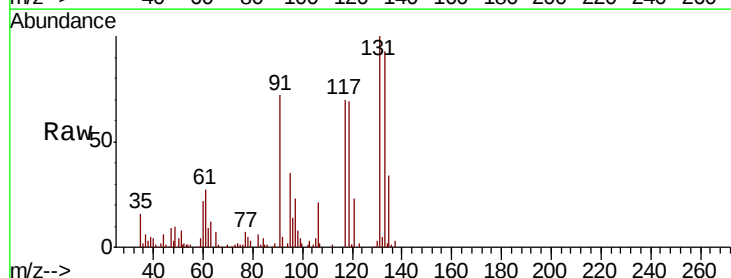
Manual Integrations
APPROVED

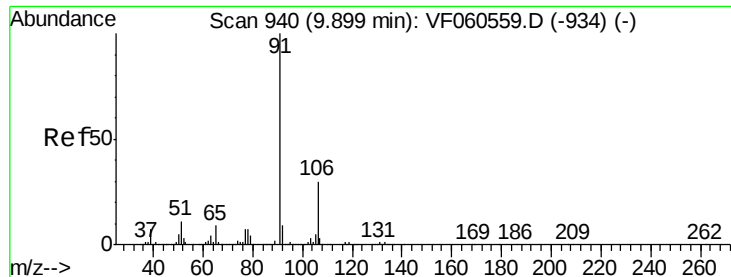
apatel
11/12/2018 2:41:01 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.394 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
131	100		
133	92.6	49.5	148.7
119	69.2	35.2	105.6





#67

Ethyl Benzene

Concen: 22.110 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion: 91 Resp: 302656

Ion Ratio Lower Upper

91 100

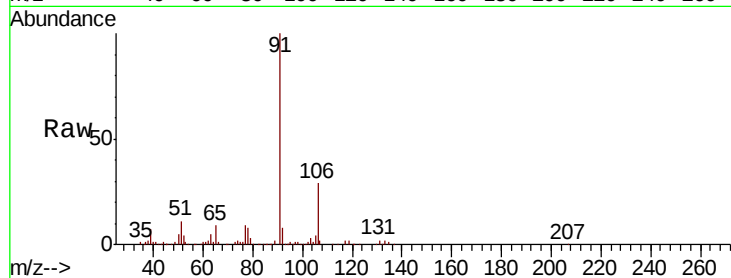
106 29.2 24.2 36.4

Manual Integrations

APPROVED

apatel

11/12/2018 2:41:01 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

150000

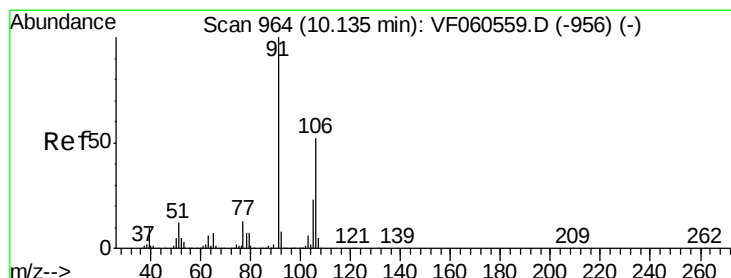
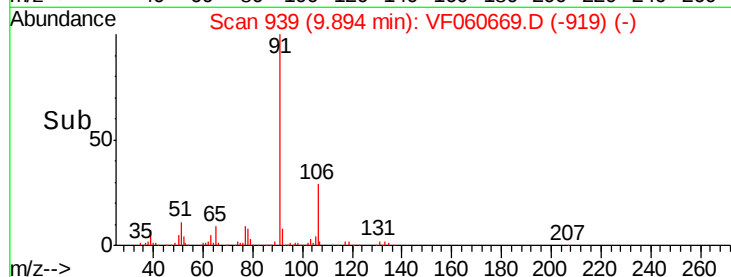
100000

50000

0

9.80 9.90 10.00

Time-->



#68

m/p-Xylenes

Concen: 45.114 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.00 min

Lab File: VF060669.D

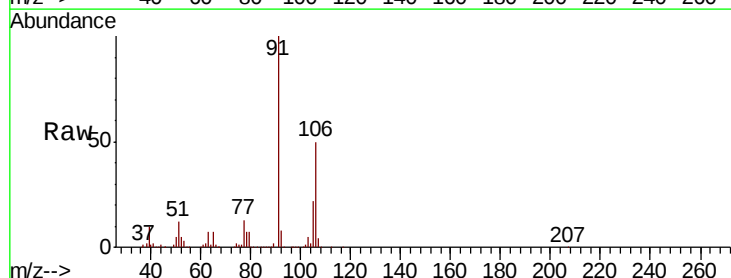
Acq: 9 Nov 2018 13:21

Tgt Ion:106 Resp: 232626

Ion Ratio Lower Upper

106 100

91 199.4 153.9 230.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

250000

200000

150000

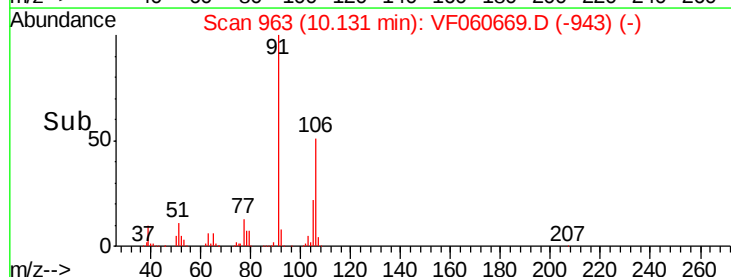
100000

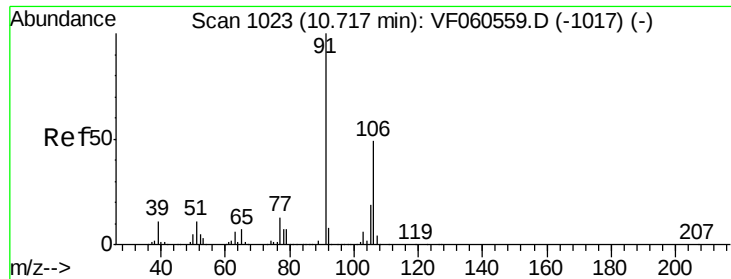
50000

0

10.00 10.10 10.20 10.30

Time-->





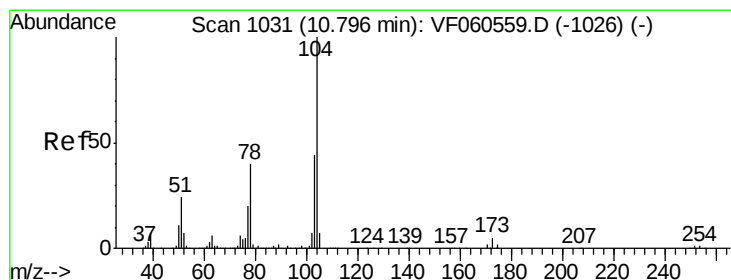
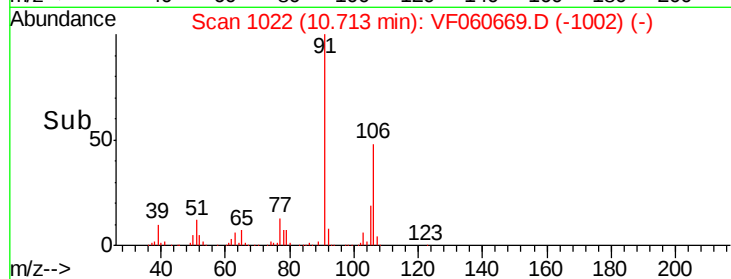
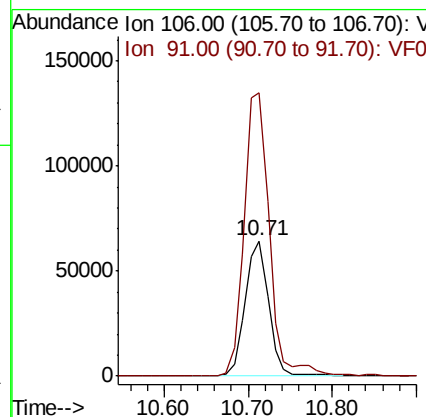
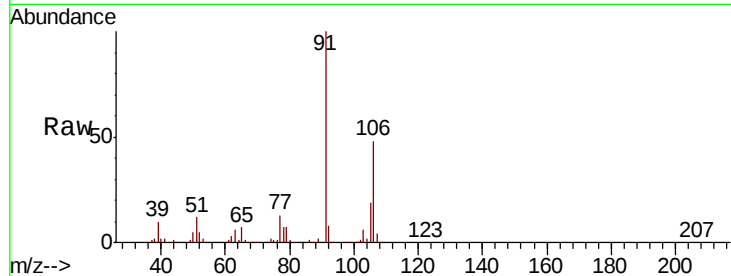
#69
o-Xylene
Concen: 22.268 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	125377		
91	91	209.1	101.8	305.3	

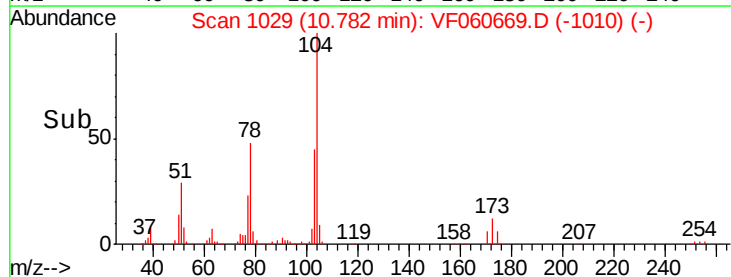
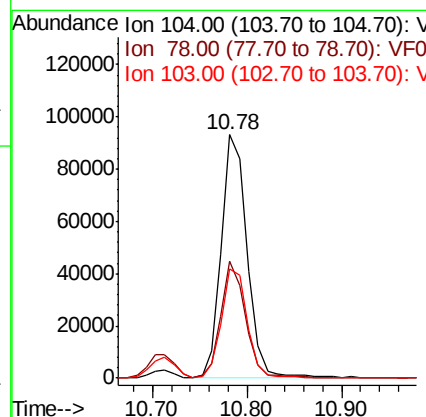
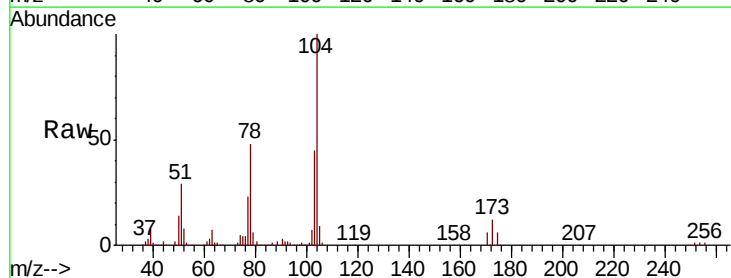
Manual Integrations
APPROVED

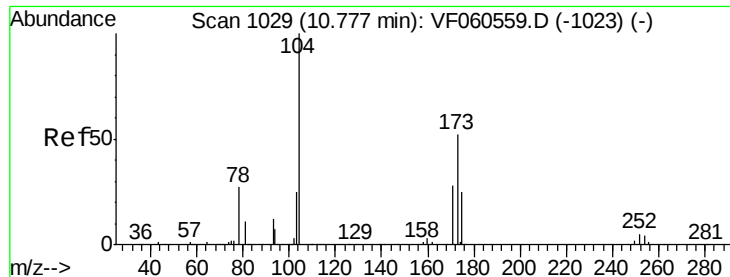
apatel
11/12/2018 2:41:01 PM



#70
Styrene
Concen: 21.396 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	174533		
78	78	48.2	32.6	49.0	
103	103	45.1	35.2	52.8	





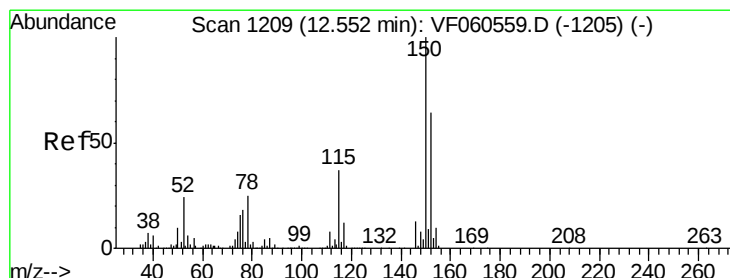
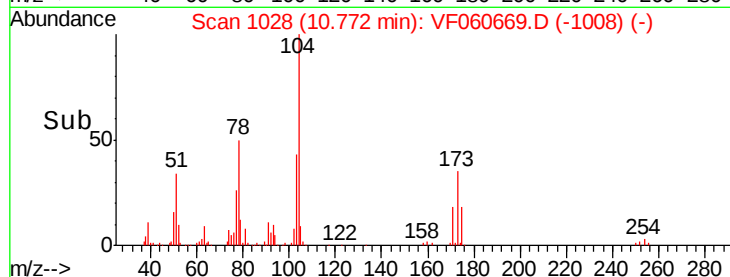
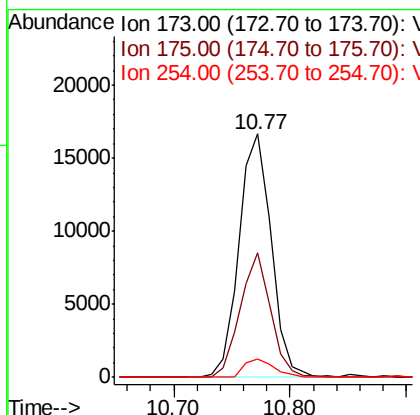
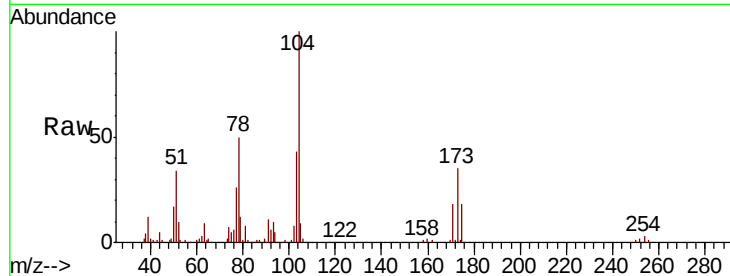
#71
Bromoform
Concen: 19.421 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.9	24.3	72.9
254	7.4	6.7	10.1

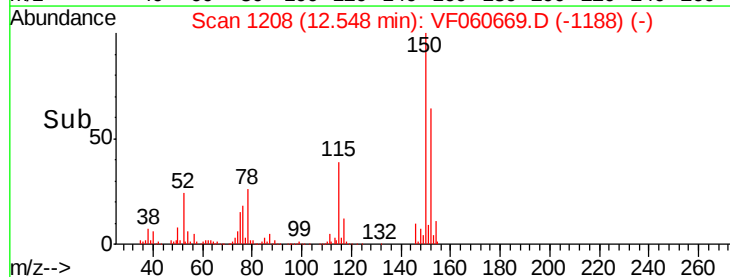
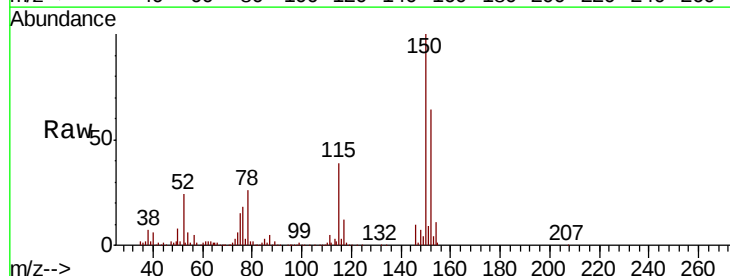
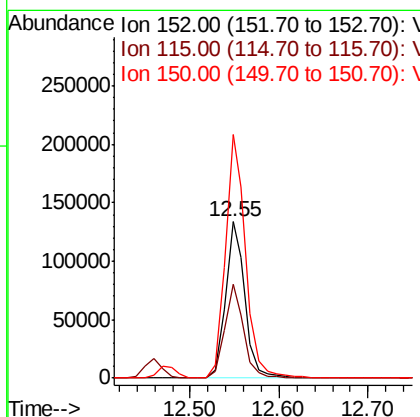
Manual Integrations
APPROVED

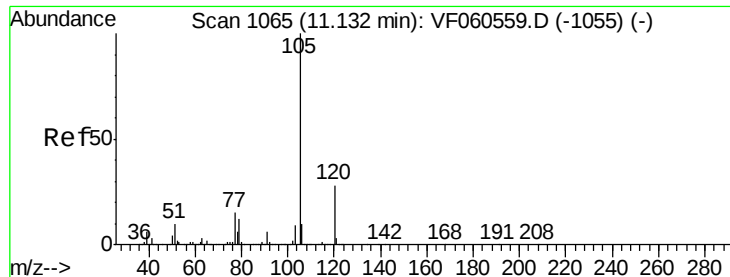
apatel
11/12/2018 2:41:01 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.2	29.6	88.8
150	155.6	0.0	315.6





#73

Isopropylbenzene

Concen: 23.017 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion: 105 Resp: 371380

Ion Ratio Lower Upper

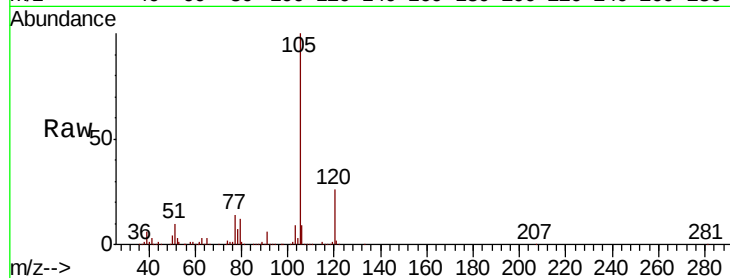
105 100

120 25.8 13.9 41.6

Manual Integrations
APPROVED

apatel

11/12/2018 2:41:01 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.13

200000

150000

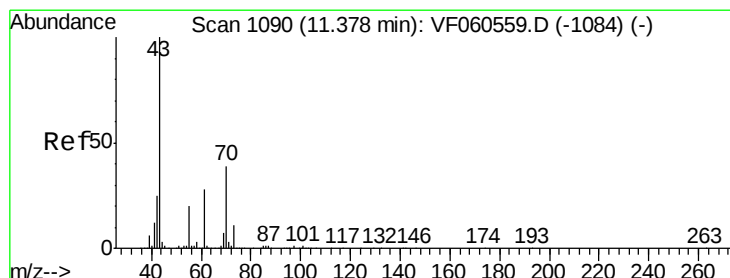
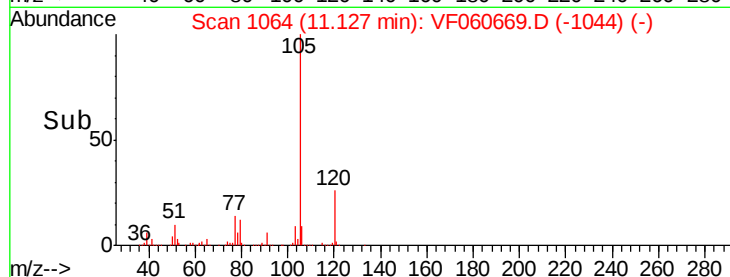
100000

50000

0

Time-->

11.00 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 15.852 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion: 43 Resp: 74748

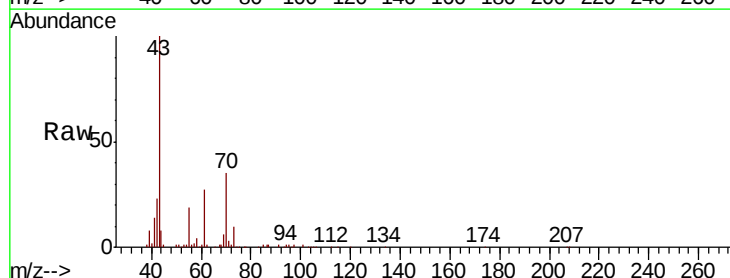
Ion Ratio Lower Upper

43 100

70 35.2 30.9 46.3

55 18.5 16.6 24.8

61 26.8 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

60000

50000

40000

30000

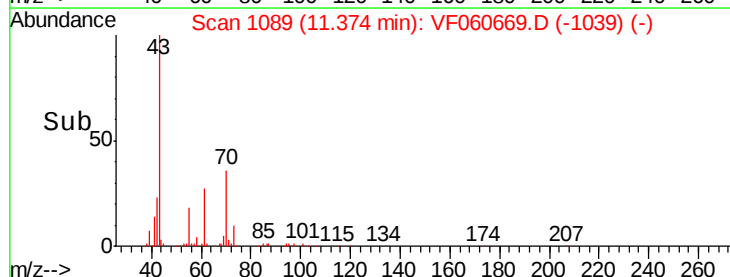
20000

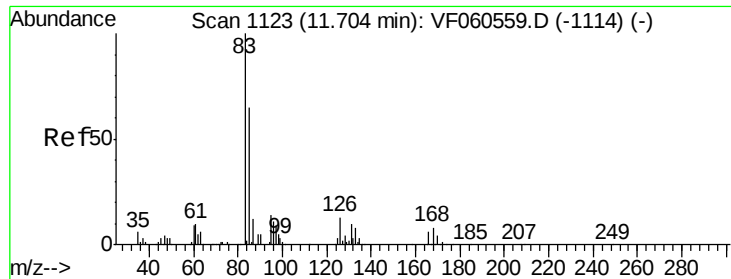
10000

0

Time-->

11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 20.842 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

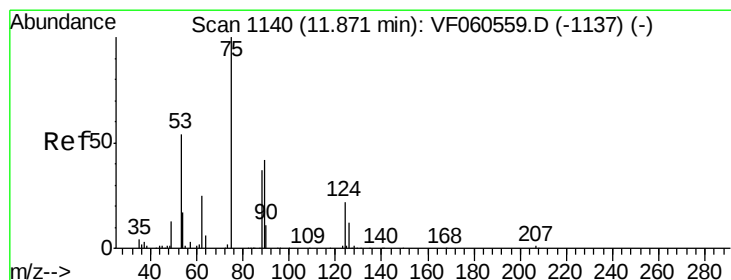
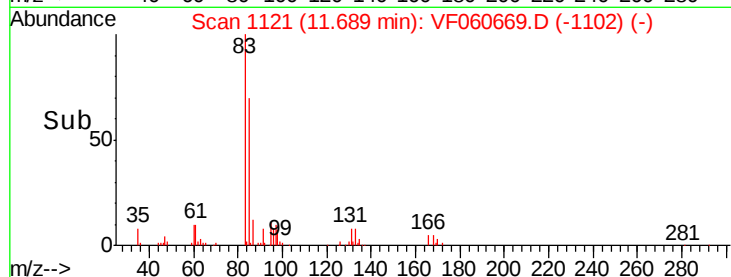
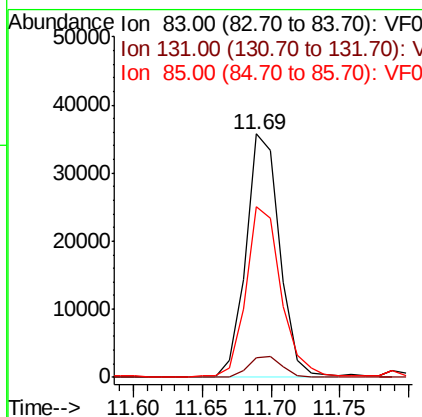
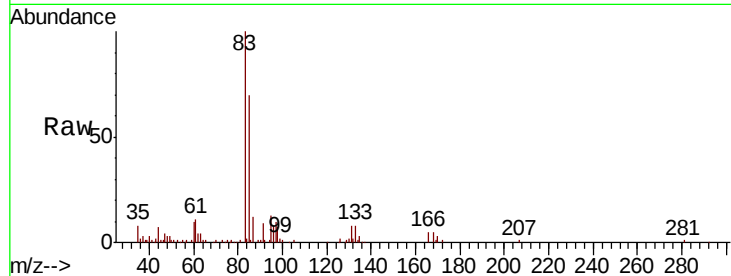
ClientSampleId :

VF1109SBS01

Tot Ion:	83	Resp:	61379
Ion Ratio	Lower	Upper	
83	100		
131	8.0	5.0	14.9
85	69.9	32.9	98.7

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#76

1,2,3-Trichloropropane

Concen: 19.348 ug/l

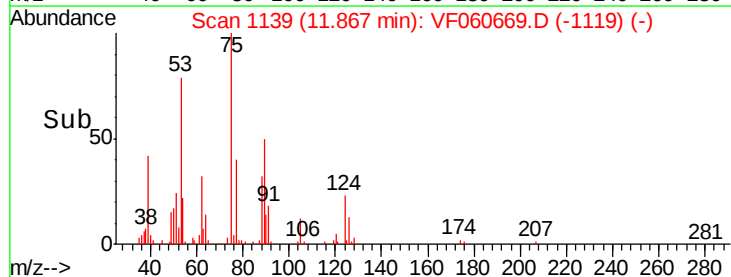
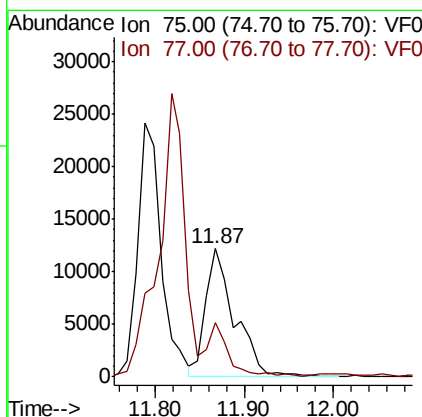
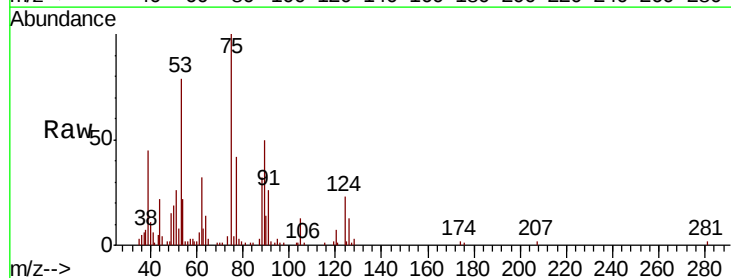
RT: 11.87 min Scan# 1139

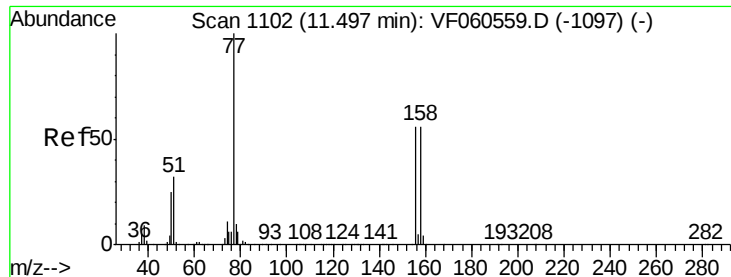
Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion:	75	Resp:	28003
Ion Ratio	Lower	Upper	
75	100		
77	42.0	17.4	52.3





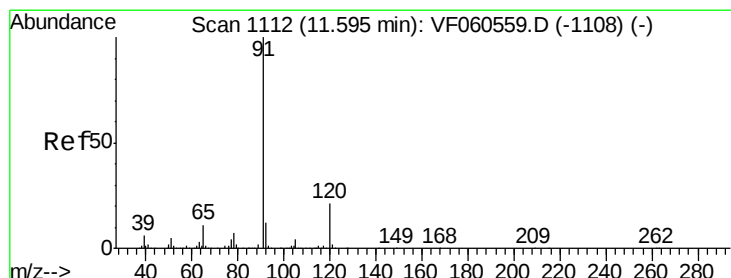
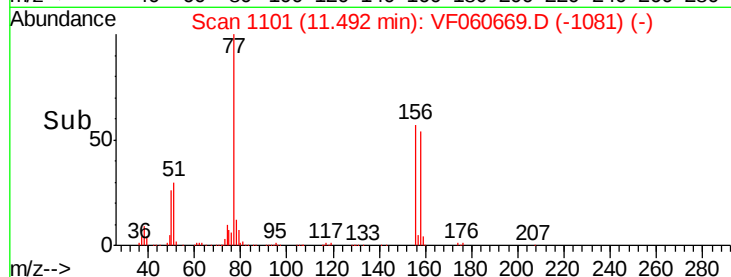
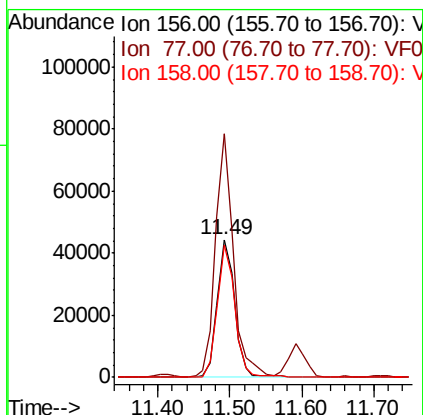
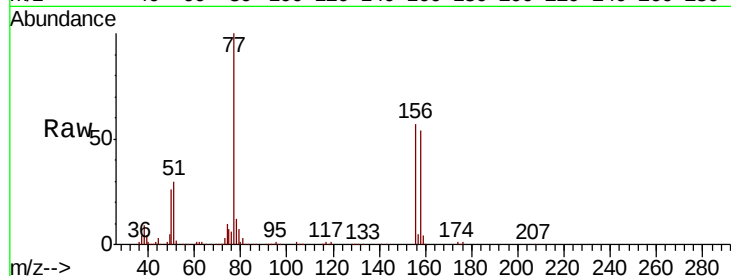
#77
Bromobenzene
Concen: 20.950 ug/l
RT: 11.49 min Scan# 1101
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	176.5	89.3	268.1
158	95.9	50.0	150.1

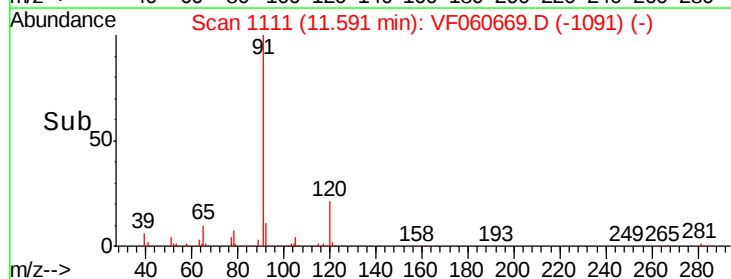
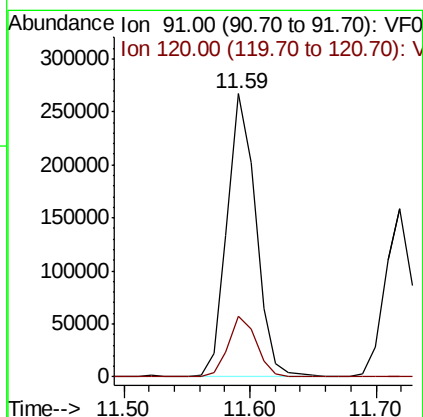
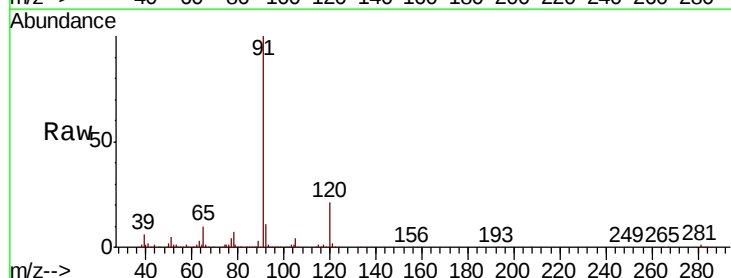
Manual Integrations
APPROVED

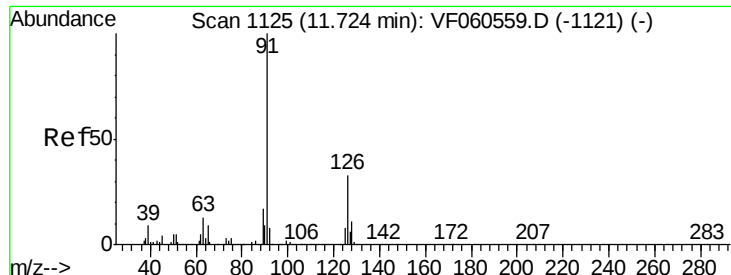
apatel
11/12/2018 2:41:01 PM



#78
n-propylbenzene
Concen: 22.230 ug/l
RT: 11.59 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.3	10.5	31.6





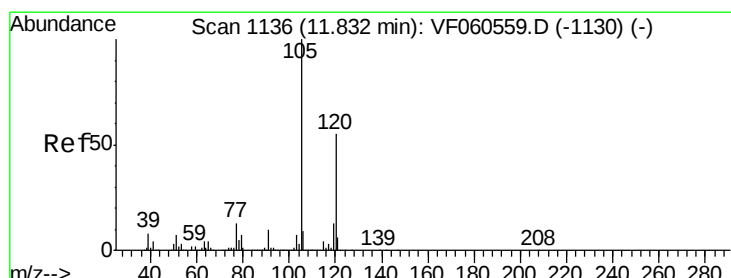
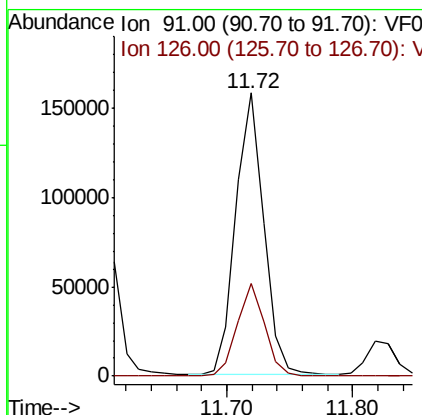
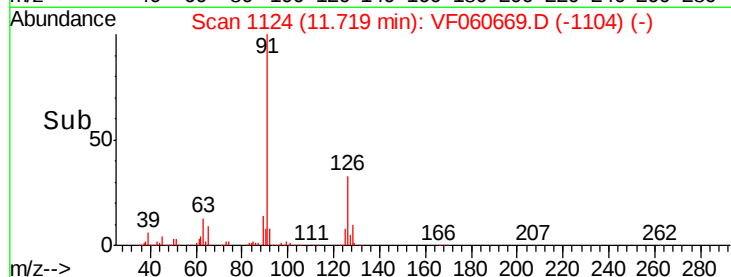
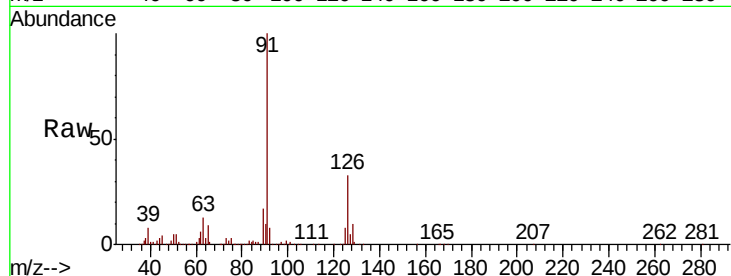
#79
 2-Chlorotoluene
 Concen: 22.453 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. -0.00 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1109SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.5	49.5

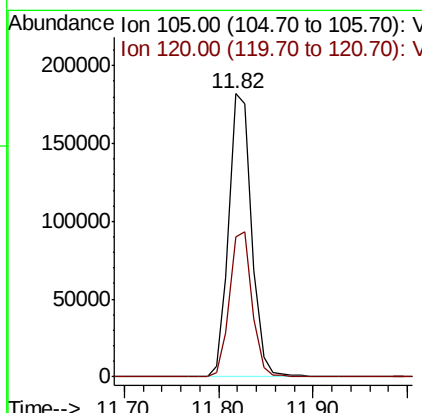
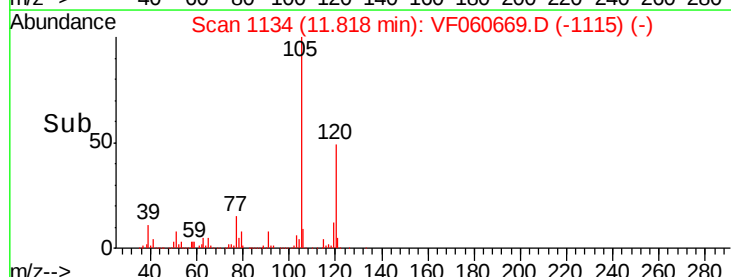
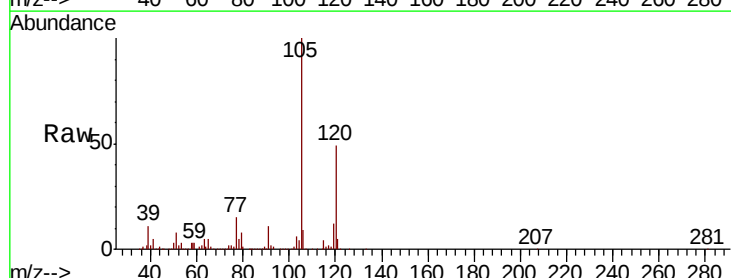
Manual Integrations
 APPROVED

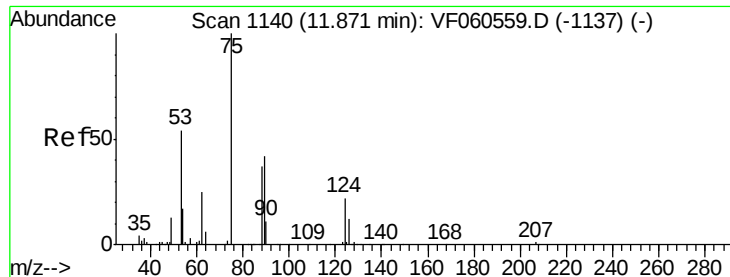
apatel
 11/12/2018 2:41:01 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 23.072 ug/l
 RT: 11.82 min Scan# 1134
 Delta R.T. -0.01 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.3	27.6	82.8





#81

trans-1,4-Dichloro-2-butene

Concen: 18.360 ug/l m

RT: 11.87 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion: 75 Resp: 20884

Ion Ratio Lower Upper

75 100

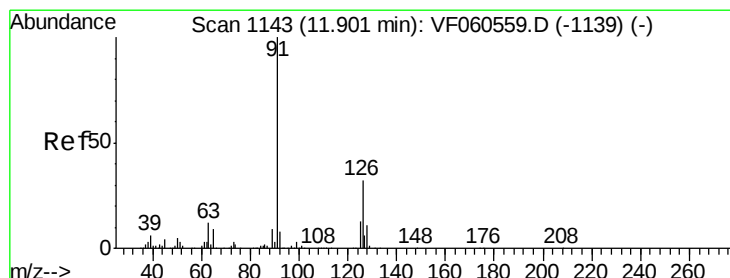
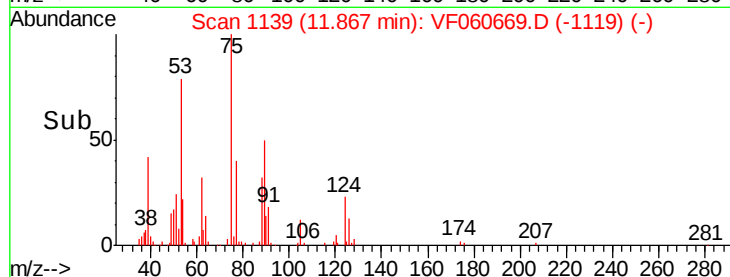
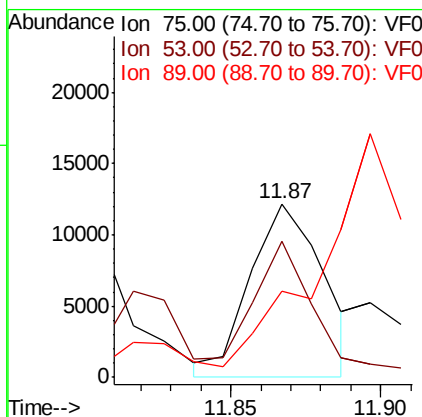
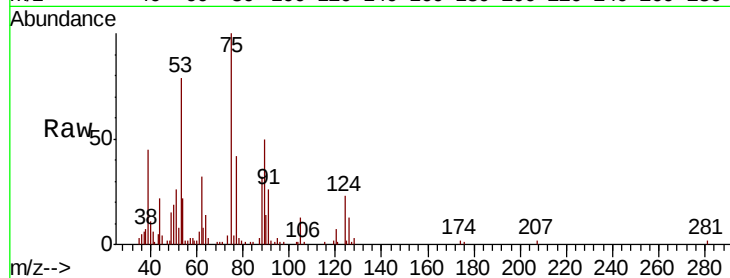
53 78.6 51.6 77.4#

89 50.0 36.7 55.1

Manual Integrations
APPROVED

apatel

11/12/2018 2:41:01 PM



#82

4-Chlorotoluene

Concen: 22.217 ug/l

RT: 11.90 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF060669.D

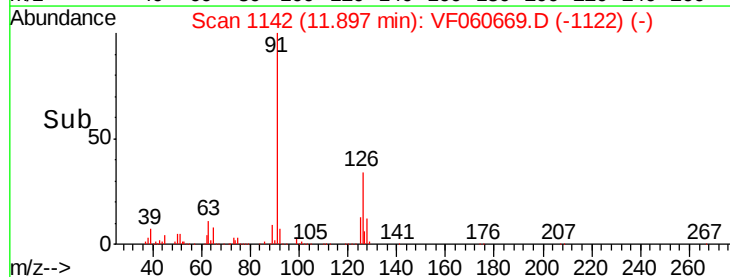
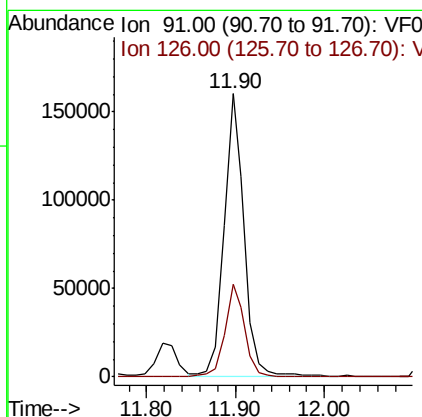
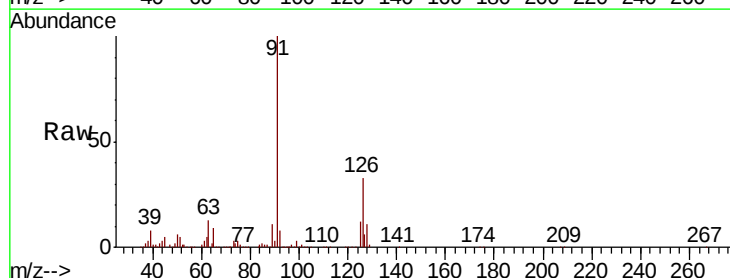
Acq: 9 Nov 2018 13:21

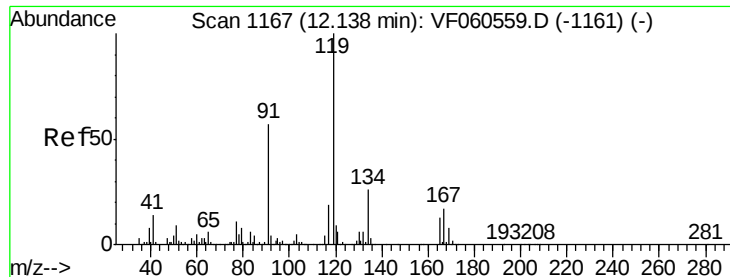
Tgt Ion: 91 Resp: 249897

Ion Ratio Lower Upper

91 100

126 32.7 15.9 47.7





#83

tert-Butylbenzene

Concen: 22.587 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

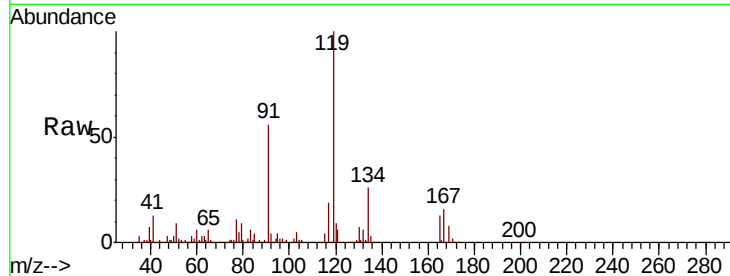
ClientSampleId :

VF1109SBS01

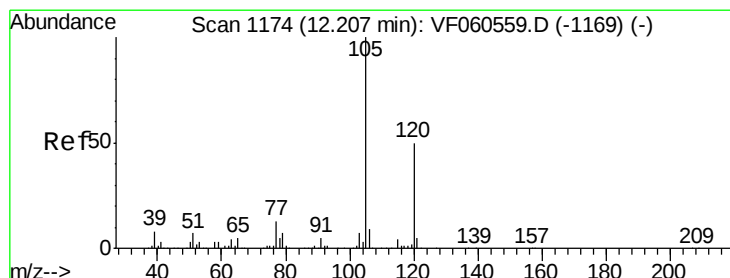
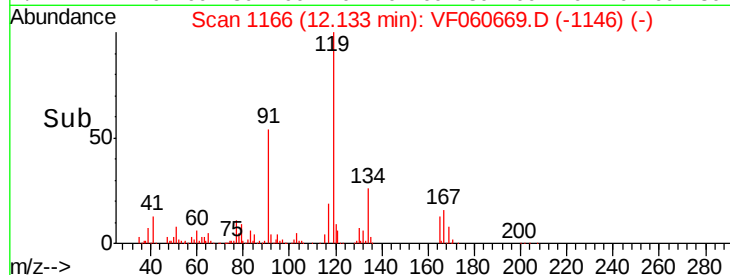
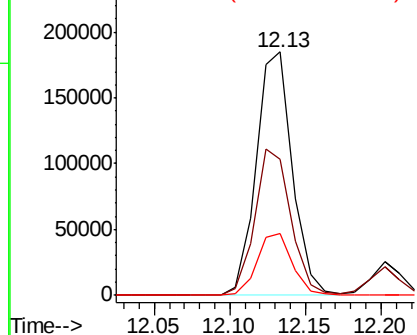
Tot Ion:	119	Resp:	306880
Ion Ratio	Lower	Upper	
119	100		
91	55.7	28.8	86.4
134	25.7	13.2	39.6

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



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: 22.446 ug/l

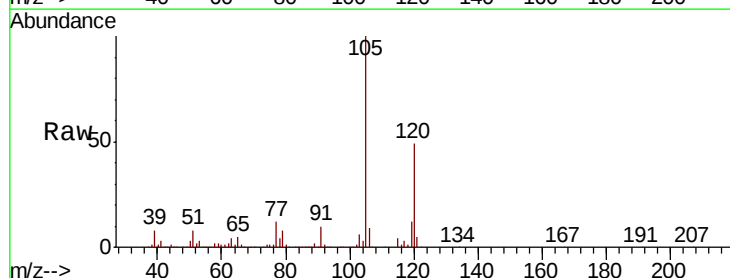
RT: 12.20 min Scan# 1173

Delta R.T. -0.00 min

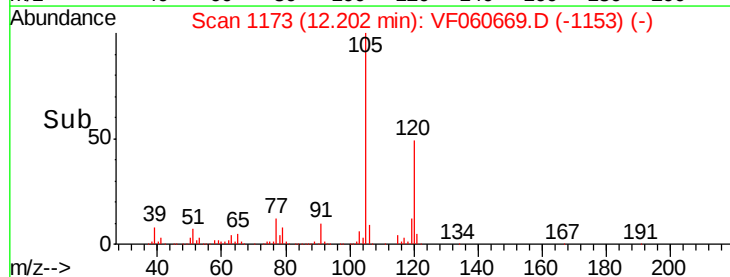
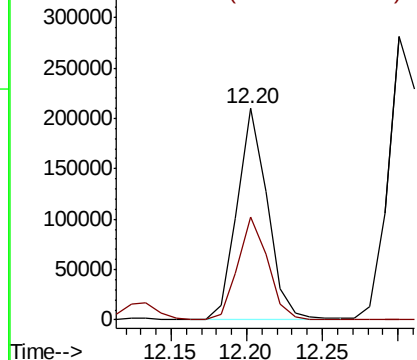
Lab File: VF060669.D

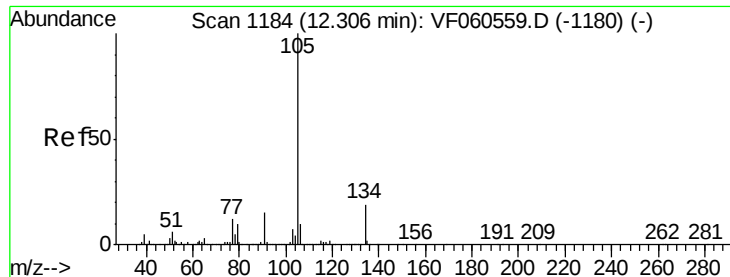
Acq: 9 Nov 2018 13:21

Tgt Ion:	105	Resp:	292333
Ion Ratio	Lower	Upper	
105	100		
120	48.8	25.6	76.8



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





#85

sec-Butylbenzene

Concen: 22.940 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

VF1109SBS01

Tot Ion:105 Resp: 428740

Ion Ratio Lower Upper

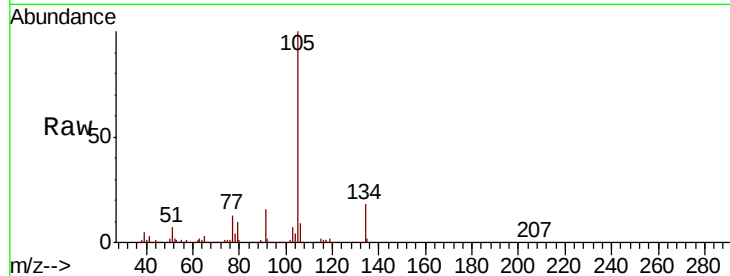
105 100

134 18.2 9.7 29.1

Manual Integrations
APPROVED

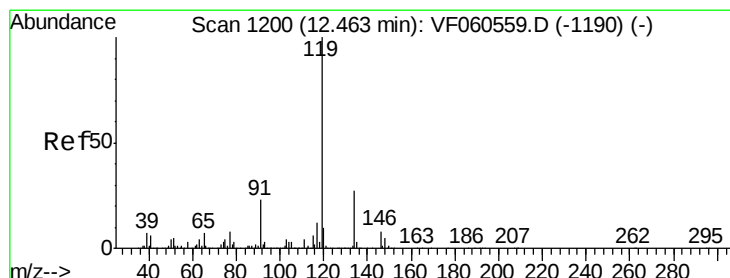
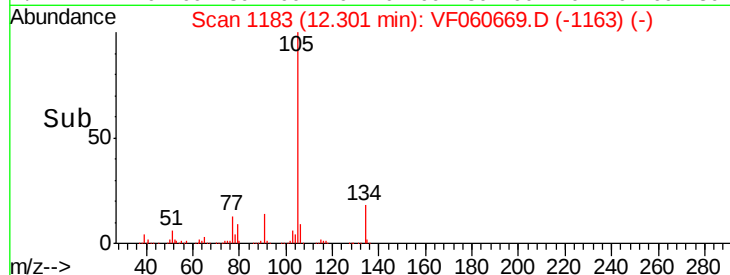
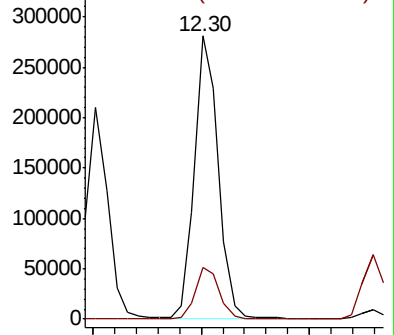
apatel

11/12/2018 2:41:01 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 23.153 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

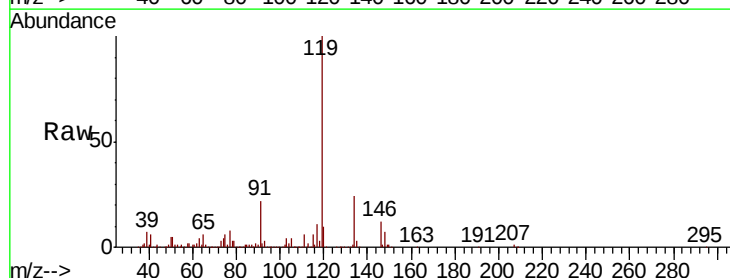
Tgt Ion:119 Resp: 356351

Ion Ratio Lower Upper

119 100

134 24.2 13.6 40.7

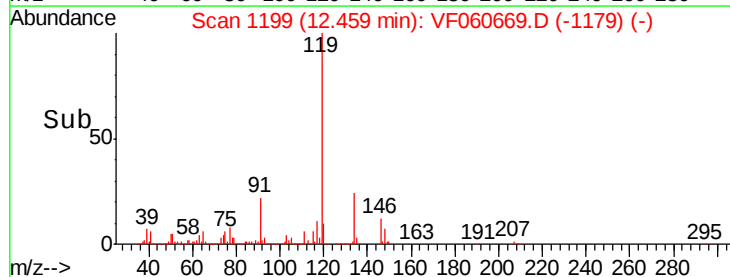
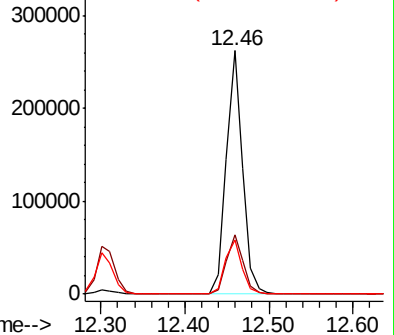
91 22.3 11.4 34.2

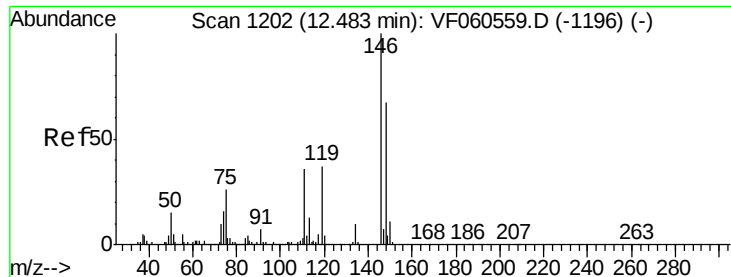


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





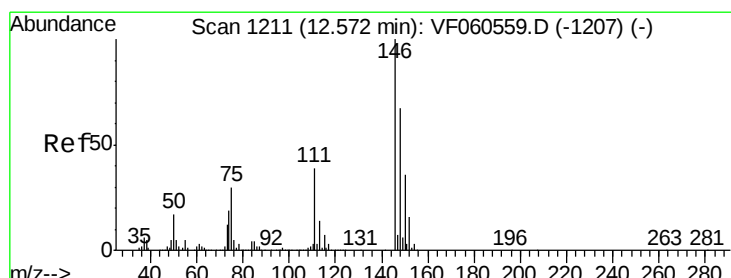
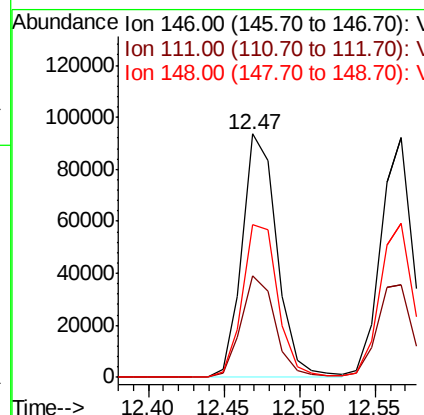
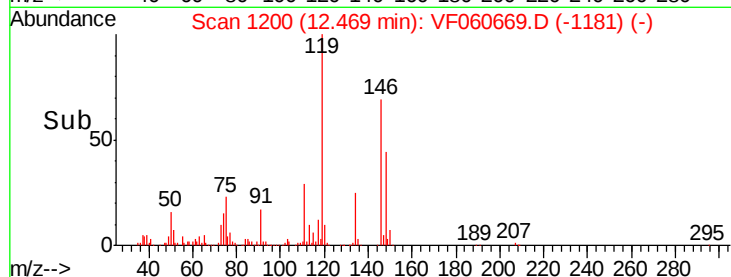
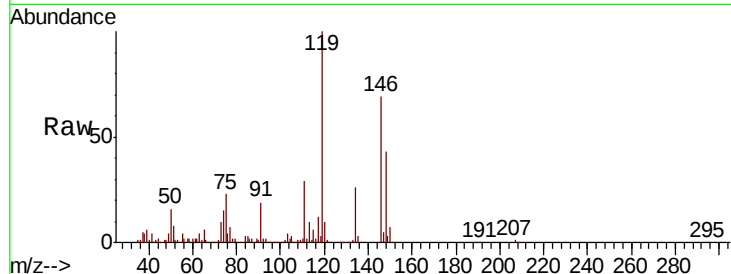
#87
 1,3-Dichlorobenzene
 Concen: 21.737 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1109SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	18.3	54.8
148	62.8	33.5	100.4

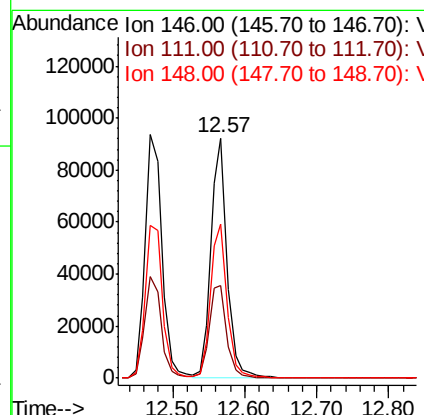
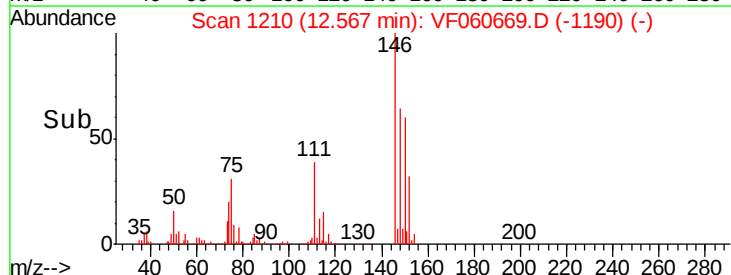
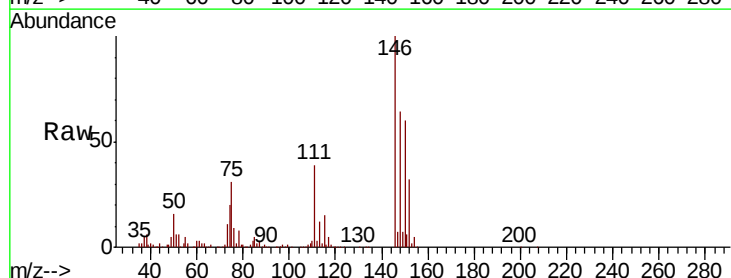
Manual Integrations
 APPROVED

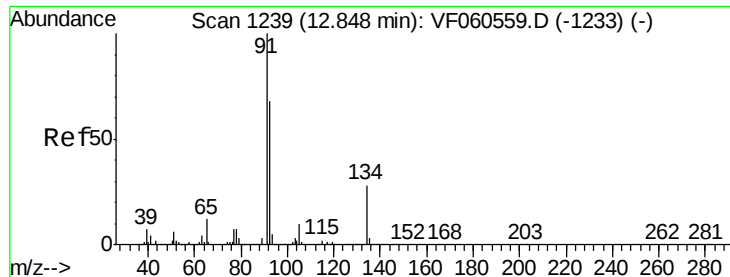
apatel
 11/12/2018 2:41:01 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.743 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VF060669.D
 Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.7	59.1
148	64.4	33.7	101.1





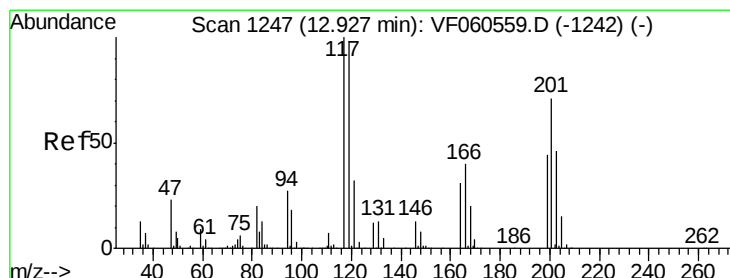
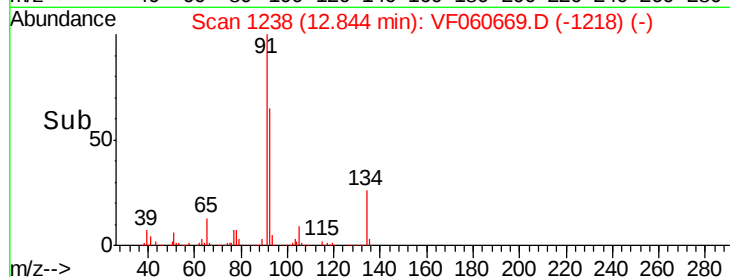
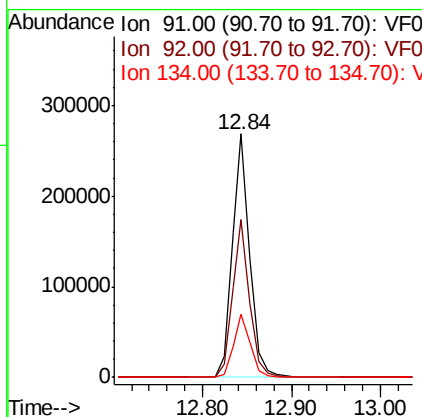
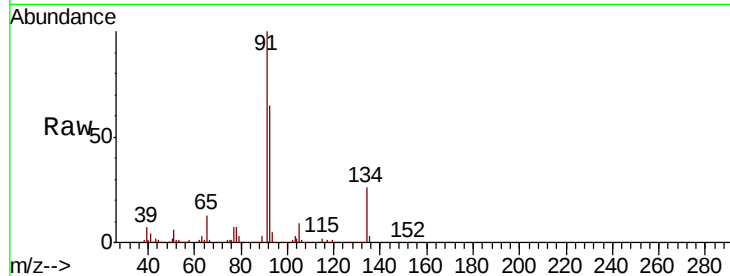
#89
n-Butylbenzene
Concen: 22.298 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.8	34.1	102.2
134	25.8	13.9	41.6

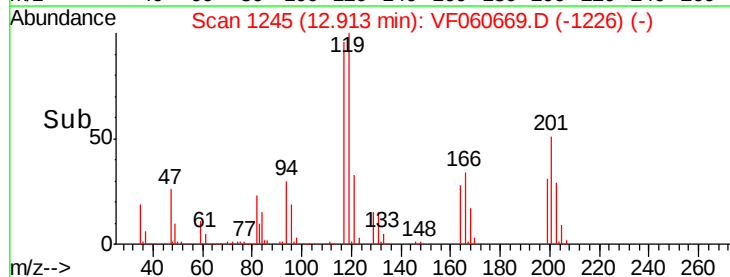
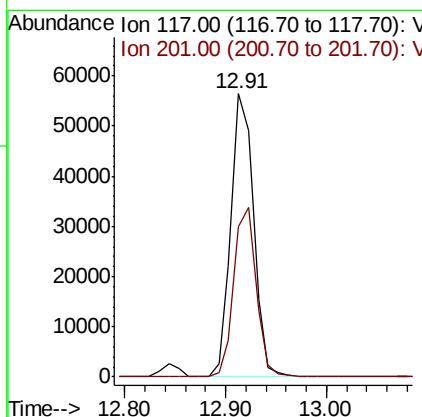
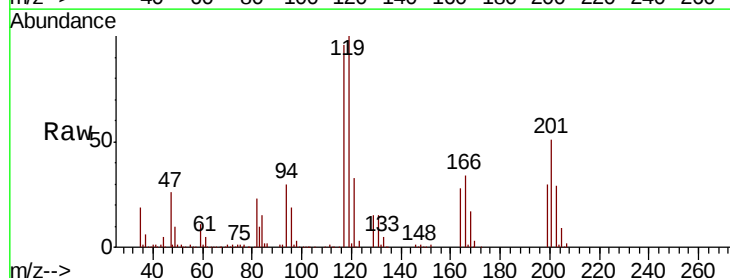
Manual Integrations
APPROVED

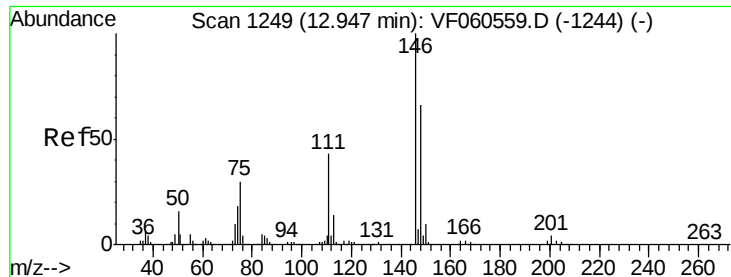
apatel
11/12/2018 2:41:01 PM



#90
Hexachloroethane
Concen: 22.648 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
117	100		
201	53.0	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 22.408 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

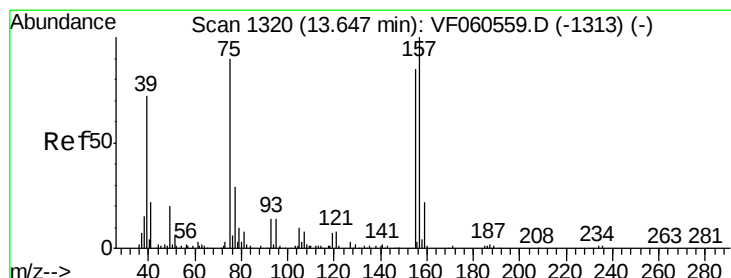
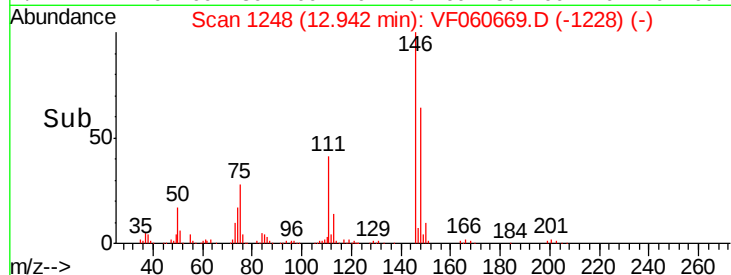
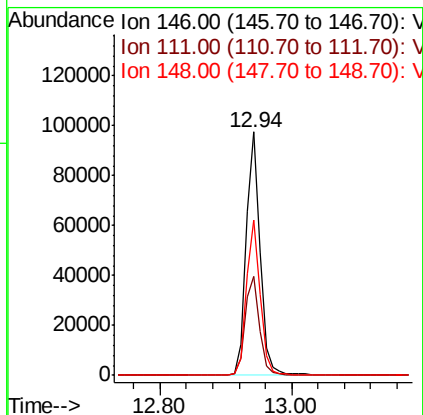
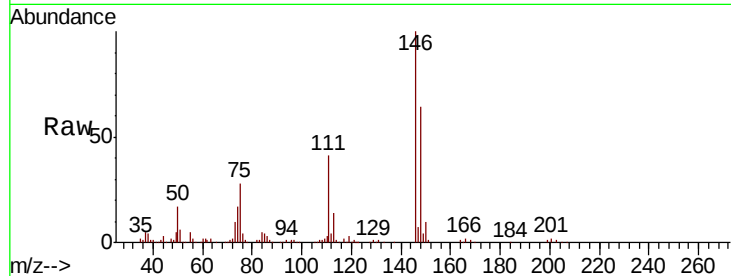
ClientSampleId :

VF1109SBS01

Tot Ion:	146	Resp:	145271
Ion Ratio	Lower	Upper	
146	100		
111	40.5	21.3	64.0
148	63.6	32.9	98.7

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.108 ug/l

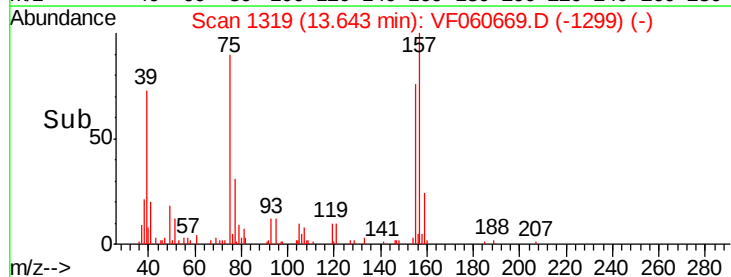
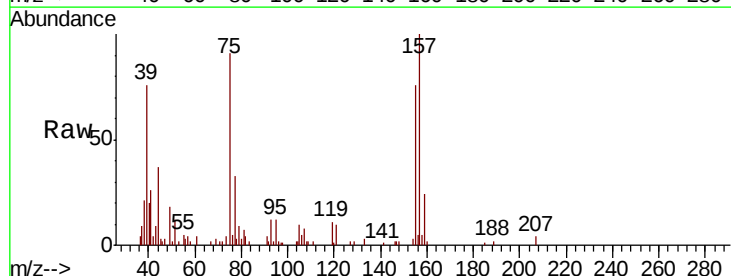
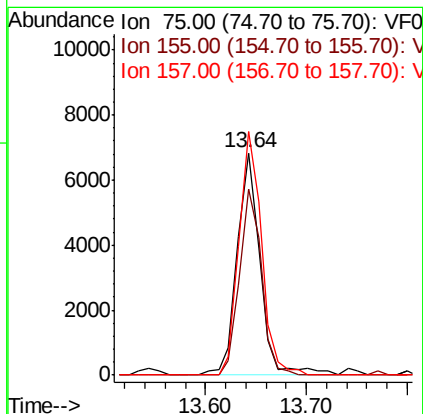
RT: 13.64 min Scan# 1319

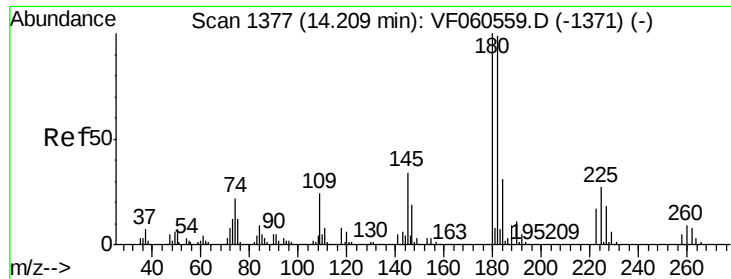
Delta R.T. -0.00 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion:	75	Resp:	10800
Ion Ratio	Lower	Upper	
75	100		
155	83.9	47.3	141.8
157	109.7	55.3	165.9





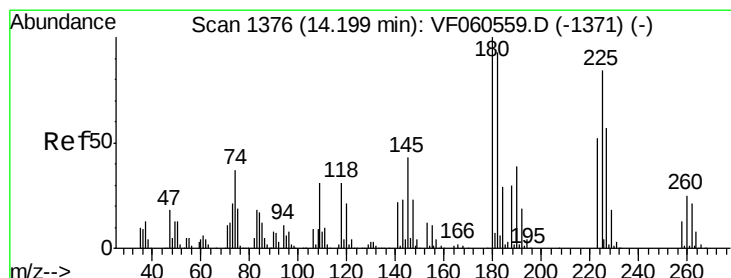
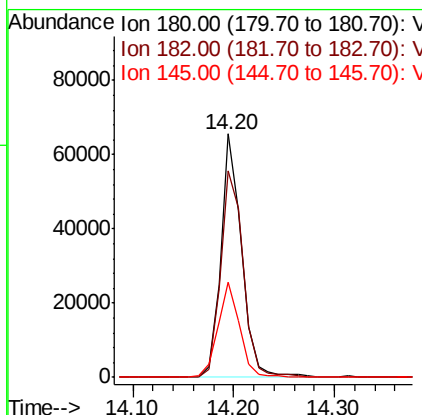
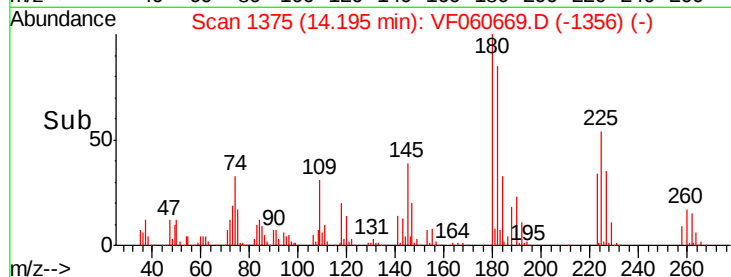
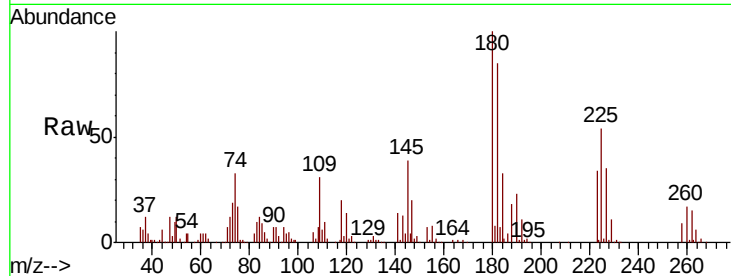
#93
1,2,4-Trichlorobenzene
Concen: 21.484 ug/l
RT: 14.20 min Scan# 1375
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
VF1109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	94621		
182	85.0	49.7	149.1	
145	39.2	16.9	50.7	

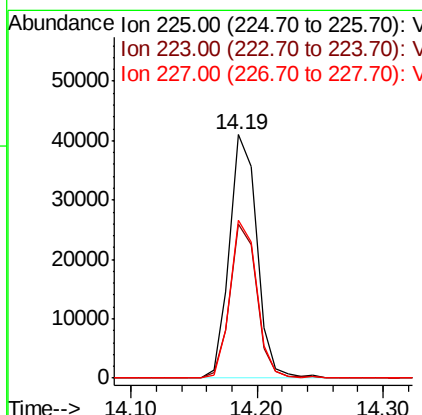
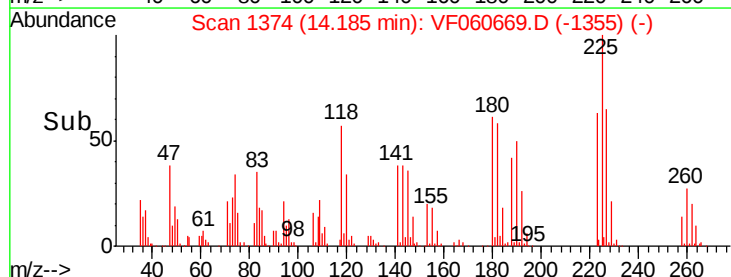
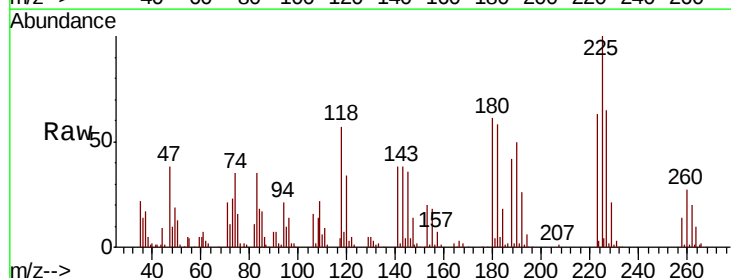
Manual Integrations
APPROVED

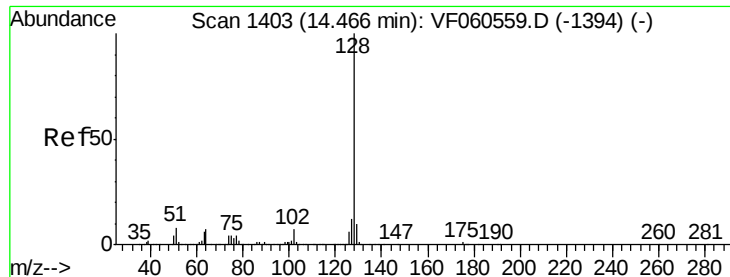
apatel
11/12/2018 2:41:01 PM



#94
Hexachlorobutadiene
Concen: 21.547 ug/l
RT: 14.19 min Scan# 1374
Delta R.T. -0.01 min
Lab File: VF060669.D
Acq: 9 Nov 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	61493		
223	63.5	30.9	92.5	
227	64.8	33.9	101.6	





#95

Naphthalene

Concen: 18.368 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Instrument :

MSVOA_F

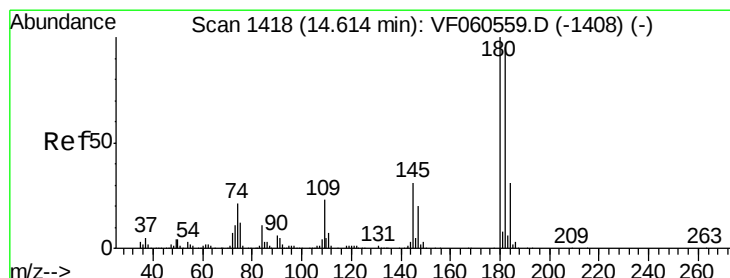
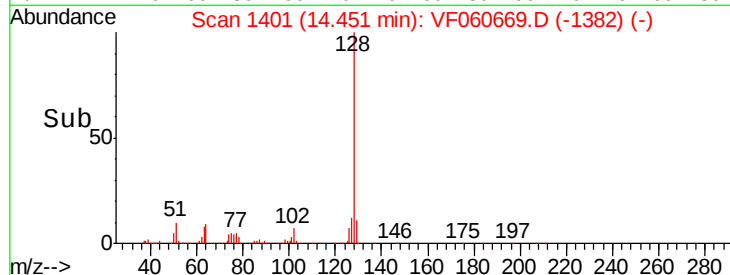
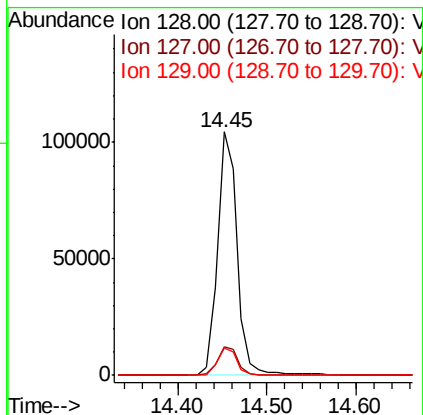
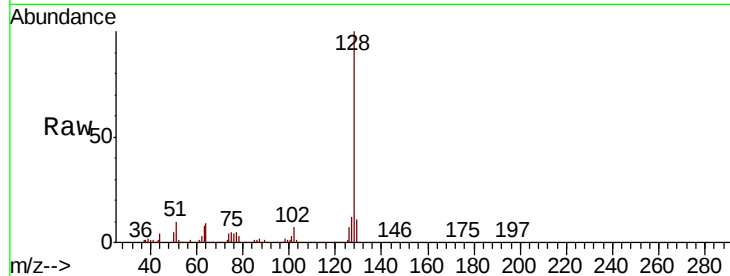
ClientSampleId :

VF1109SBS01

Tot Ion:	128	Resp:	161915
Ion Ratio	Lower	Upper	
128	100		
127	11.8	9.4	14.0
129	11.5	8.4	12.6

Manual Integrations
APPROVED

apatel
11/12/2018 2:41:01 PM



#96

1,2,3-Trichlorobenzene

Concen: 21.070 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF060669.D

Acq: 9 Nov 2018 13:21

Tgt Ion:	180	Resp:	87659
Ion Ratio	Lower	Upper	
180	100		
182	94.7	47.3	142.0
145	33.6	15.6	46.8

