

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100918\
 Data File : VF060492.D
 Acq On : 9 Oct 2018 15:43
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 10/10/2018 12:33:47 PM

Quant Time: Oct 10 02:04:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 10 01:47:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	243953	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	405099	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	352786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	195139	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.99	65	78706	20.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.42%	
35) Dibromofluoromethane	4.26	113	77753	20.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.06%	
50) Toluene-d8	7.68	98	180192	19.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.00%	
62) 4-Bromofluorobenzene	11.49	95	79454	18.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	117071	21.013	ug/l	98
3) Chloromethane	1.13	50	67821	20.863	ug/l	92
4) Vinyl Chloride	1.17	62	74888	22.012	ug/l	96
5) Bromomethane	1.36	94	53043	20.163	ug/l	91
6) Chloroethane	1.43	64	39235	23.175	ug/l	92
7) Trichlorofluoromethane	1.53	101	155622m	19.828	ug/l	
8) Diethyl Ether	1.68	74	20677	18.814	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	1.88	101	78645	20.729	ug/l	96
10) Methyl Iodide	1.96	142	124198m	21.286	ug/l	
11) Tert butyl alcohol	2.67	59	21365	94.680	ug/l #	75
12) 1,1-Dichloroethene	1.85	96	60900	20.406	ug/l	89
13) Acrolein	2.07	56	15267	90.726	ug/l	99
14) Allyl chloride	2.17	41	92037	19.744	ug/l	95
15) Acrylonitrile	3.05	53	43634	110.113	ug/l	100
16) Acetone	2.33	43	88814	98.100	ug/l	97
17) Carbon Disulfide	1.89	76	187811	21.271	ug/l	100
18) Methyl Acetate	2.43	43	30882	19.323	ug/l	98
19) Methyl tert-butyl Ether	2.52	73	143966	20.060	ug/l	99
20) Methylene Chloride	2.26	84	59344m	17.859	ug/l	
21) trans-1,2-Dichloroethene	2.39	96	58448	19.711	ug/l	93
22) Diisopropyl ether	2.91	45	199352	22.656	ug/l	98
23) Vinyl Acetate	3.30	43	366483	107.794	ug/l #	96
24) 1,1-Dichloroethane	2.98	63	131667	22.229	ug/l	98
25) 2-Butanone	4.47	43	97845	99.972	ug/l #	88
26) 2,2-Dichloropropane	3.73	77	72841	22.172	ug/l	97
27) cis-1,2-Dichloroethene	3.61	96	76802	23.110	ug/l	91
28) Bromochloromethane	3.85	49	43283	20.627	ug/l #	90
29) Tetrahydrofuran	4.22	42	38375	97.007	ug/l	94
30) Chloroform	4.01	83	154012	21.572	ug/l	95
31) Cyclohexane	3.83	56	83327	20.272	ug/l	95
32) 1,1,1-Trichloroethane	4.24	97	120029	20.451	ug/l	96
36) 1,1-Dichloropropene	4.43	75	98331	19.856	ug/l	99
37) Ethyl Acetate	4.25	43	34745	18.363	ug/l	99
38) Carbon Tetrachloride	4.13	117	102719	17.557	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100918\
 Data File : VF060492.D
 Acq On : 9 Oct 2018 15:43
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00/5mL/MSVOA F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 10/10/2018 12:33:47 PM

Quant Time: Oct 10 02:04:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 10 01:47:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.59	83	92874	18.885	ug/l	93
40) Benzene	4.78	78	204356	20.525	ug/l	99
41) Methacrylonitrile	4.89	41	21511	21.192	ug/l	92
42) 1,2-Dichloroethane	5.09	62	92743	19.664	ug/l	100
43) Isopropyl Acetate	7.08	43	38977	16.976	ug/l #	99
44) Trichloroethene	5.64	130	63496	19.836	ug/l	94
45) 1,2-Dichloropropane	6.38	63	50883	19.466	ug/l	95
46) Dibromomethane	6.22	93	40317	19.145	ug/l	89
47) Bromodichloromethane	6.51	83	103095	19.650	ug/l	99
48) Methyl methacrylate	6.84	41	29095	17.726	ug/l	94
49) 1,4-Dioxane	6.83	88	4467	314.817	ug/l #	57
51) 4-Methyl-2-Pentanone	8.38	43	152970	93.865	ug/l	97
52) Toluene	7.76	92	127619	19.072	ug/l	97
53) t-1,3-Dichloropropene	8.40	75	79832	19.434	ug/l	96
54) cis-1,3-Dichloropropene	7.43	75	89053	18.728	ug/l	93
55) 1,1,2-Trichloroethane	8.61	97	38094	17.972	ug/l	95
56) Ethyl methacrylate	8.73	69	42415	17.676	ug/l	92
57) 1,3-Dichloropropane	8.97	76	67013	18.741	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.76	63	22758	92.224	ug/l	100
59) 2-Hexanone	9.61	43	109996	92.224	ug/l	99
60) Dibromochloromethane	8.83	129	61611	19.366	ug/l	97
61) 1,2-Dibromoethane	9.11	107	43453	18.738	ug/l	100
64) Tetrachloroethene	8.28	164	58331	20.593	ug/l	96
65) Chlorobenzene	9.92	112	144326	19.965	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.04	131	66282	20.947	ug/l	99
67) Ethyl Benzene	10.01	91	279472	20.286	ug/l	95
68) m/p-Xylenes	10.24	106	180871	38.379	ug/l	85
69) o-Xylene	10.80	106	108862	21.173	ug/l	100
70) Styrene	10.88	104	147417	20.197	ug/l	96
71) Bromoform	10.86	173	32303	19.235	ug/l #	95
73) Isopropylbenzene	11.21	105	314843	20.335	ug/l	99
74) N-amyl acetate	11.44	43	64557	18.370	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.77	83	51943	18.723	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	41136	19.951	ug/l	94
77) Bromobenzene	11.57	156	69606	20.147	ug/l	95
78) n-propylbenzene	11.67	91	375458	20.193	ug/l	95
79) 2-Chlorotoluene	11.80	91	220985	20.271	ug/l	99
80) 1,3,5-Trimethylbenzene	11.90	105	261620	20.021	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.94	75	17682m	19.614	ug/l	
82) 4-Chlorotoluene	11.98	91	223053	19.859	ug/l	99
83) tert-Butylbenzene	12.20	119	273608	21.226	ug/l	94
84) 1,2,4-Trimethylbenzene	12.27	105	272084	20.903	ug/l	100
85) sec-Butylbenzene	12.37	105	372340	20.880	ug/l	98
86) p-Isopropyltoluene	12.53	119	295748	20.296	ug/l	96
87) 1,3-Dichlorobenzene	12.54	146	128693	19.806	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	127022	19.873	ug/l	97
89) n-Butylbenzene	12.90	91	313270	20.393	ug/l	97
90) Hexachloroethane	12.98	117	71771	19.292	ug/l	100
91) 1,2-Dichlorobenzene	13.00	146	128680	20.651	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	13.70	75	11011	19.915	ug/l	90

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100918\
Data File : VF060492.D
Acq On : 9 Oct 2018 15:43
Operator : VA/AP
Sample : VSTDICC020
Misc : 5.00/5mL/MSVOA F/SOIL
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM

Quant Time: Oct 10 02:04:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F100918S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 10 01:47:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	104311	22.381	ug/l	100
94) Hexachlorobutadiene	14.24	225	66714	20.355	ug/l	99
95) Naphthalene	14.51	128	164929	19.818	ug/l	97
96) 1,2,3-Trichlorobenzene	14.66	180	96532	21.987	ug/l	91

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

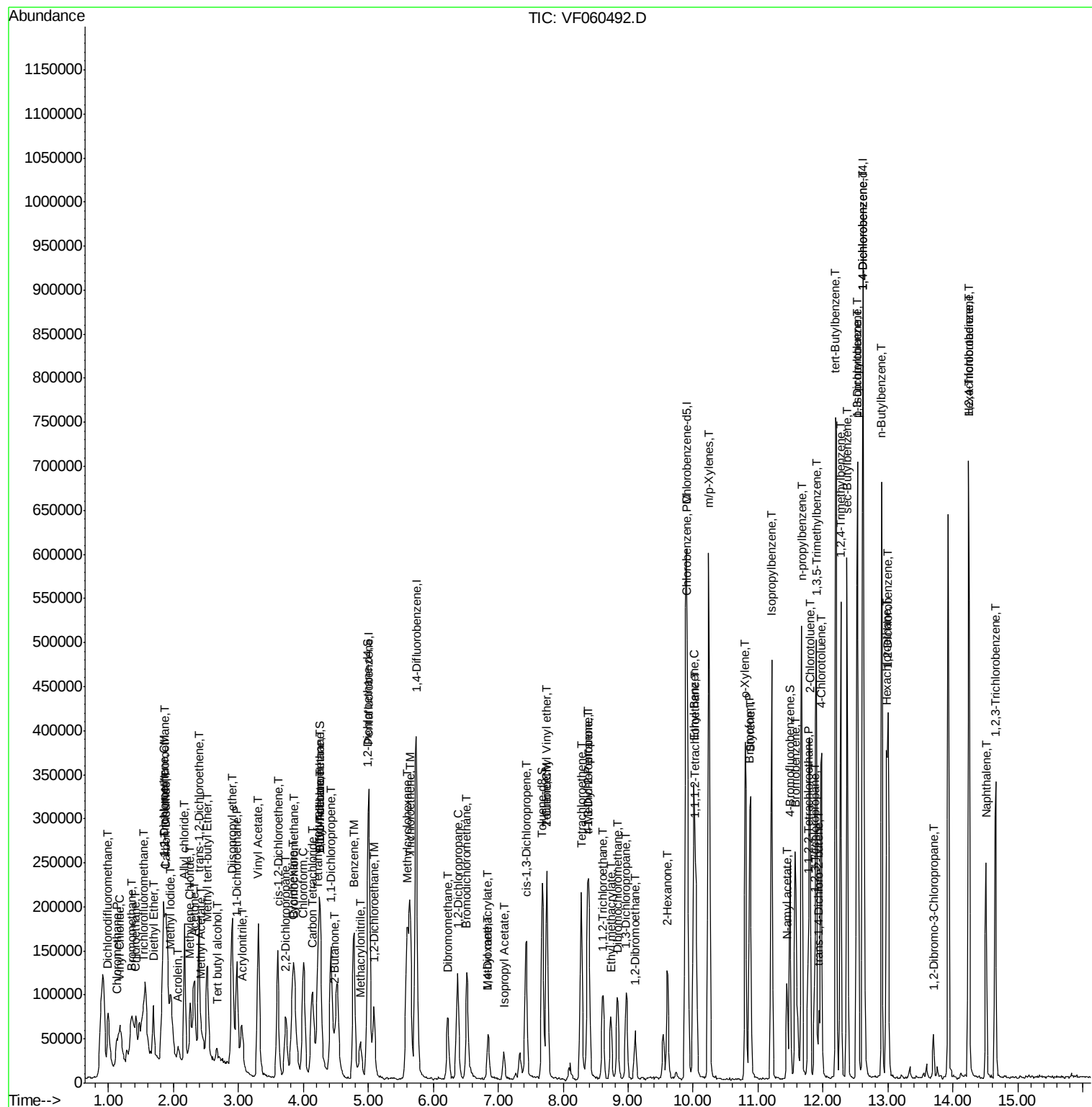
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100918\
Data File : VF060492.D
Acq On : 9 Oct 2018 15:43
Operator : VA/AP
Sample : VSTDIC020
Misc : 5.00/5mL/MSVOA F/SOIL
ALS Vial : 33 Sample Multiplier: 1

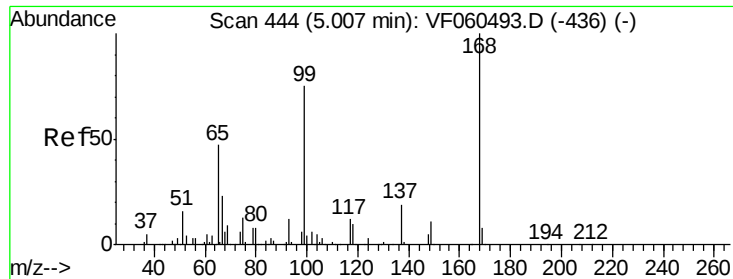
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM

Quant Time: Oct 10 02:04:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F100918S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 10 01:47:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 243953

Ion Ratio Lower Upper

168 100

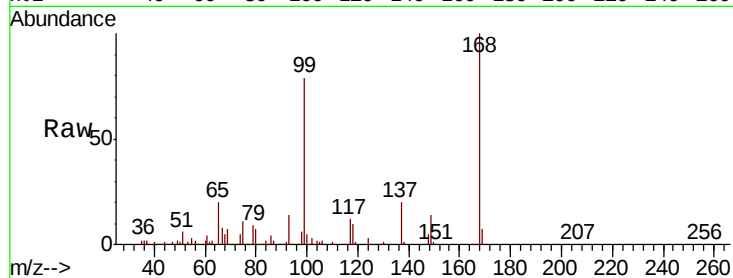
99 78.7 60.3 90.5

Manual Integrations

APPROVED

apatel

10/10/2018 12:33:47 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

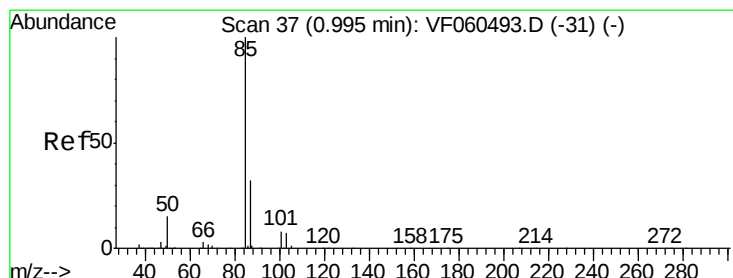
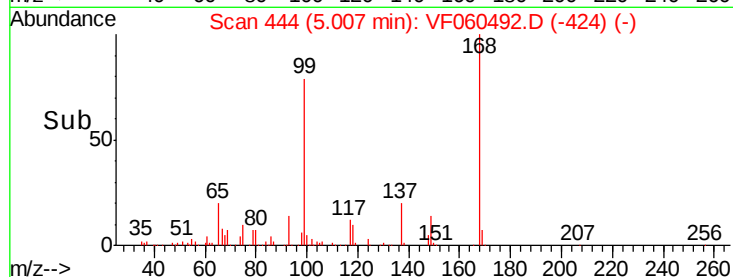
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 21.013 ug/l

RT: 0.99 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060492.D

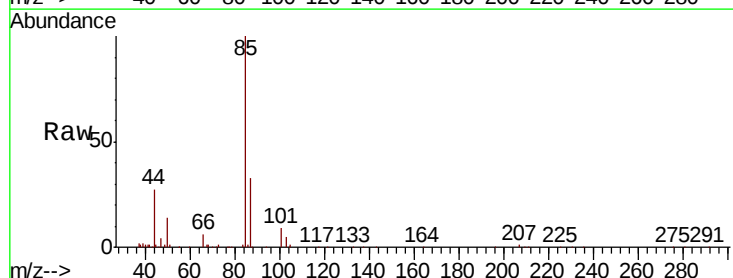
Acq: 9 Oct 2018 15:43

Tgt Ion: 85 Resp: 117071

Ion Ratio Lower Upper

85 100

87 33.7 16.2 48.5



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

40000

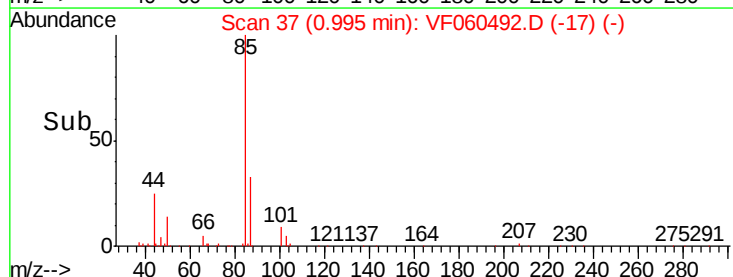
30000

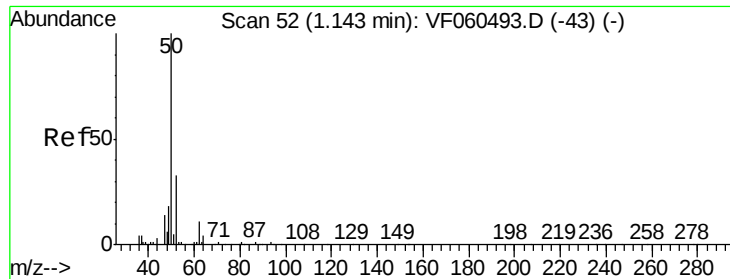
20000

10000

0

Time-->





#3

Chloromethane

Concen: 20.863 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 67821

Ion Ratio Lower Upper

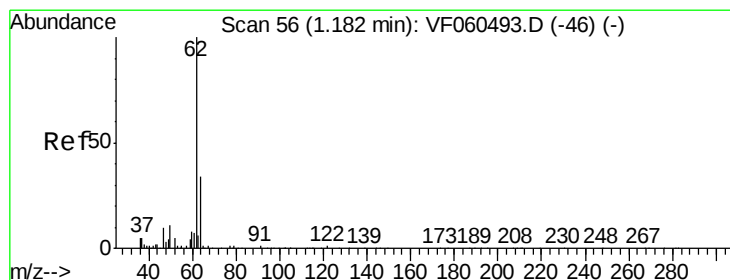
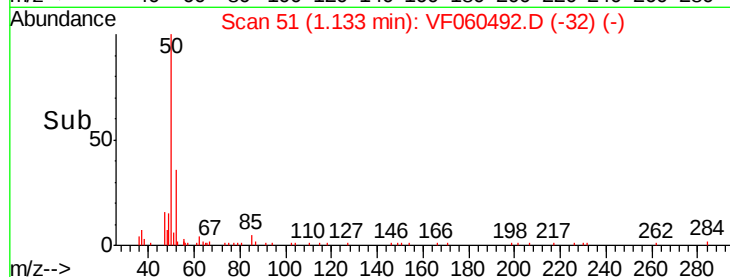
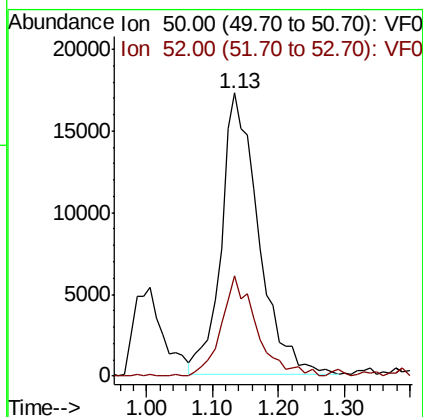
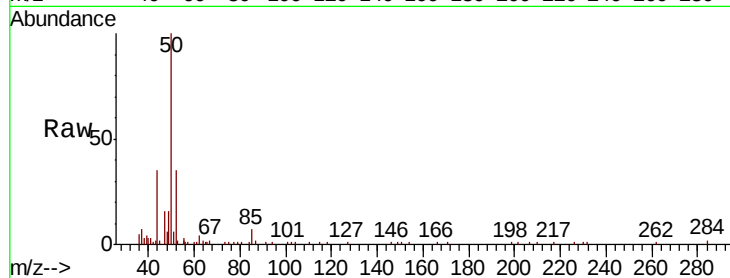
50 100

52 35.5 25.0 37.4

Manual Integrations
APPROVED

apatel

10/10/2018 12:33:47 PM



#4

Vinyl Chloride

Concen: 22.012 ug/l

RT: 1.17 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF060492.D

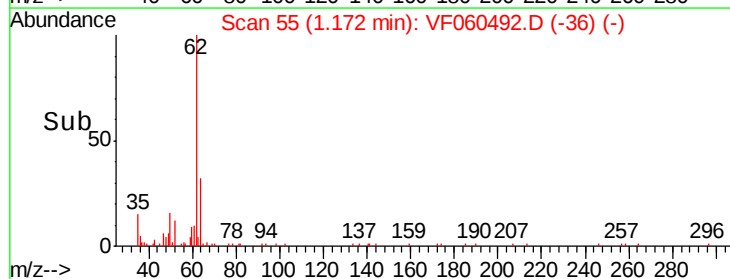
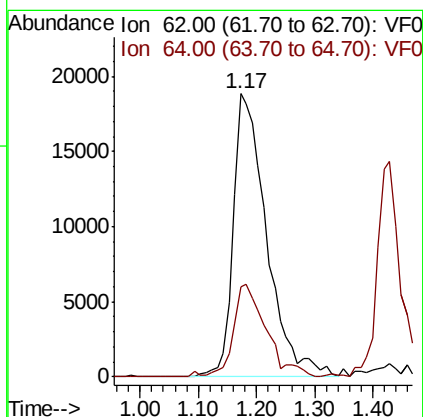
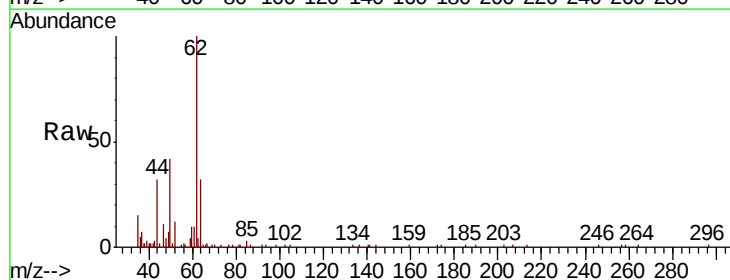
Acq: 9 Oct 2018 15:43

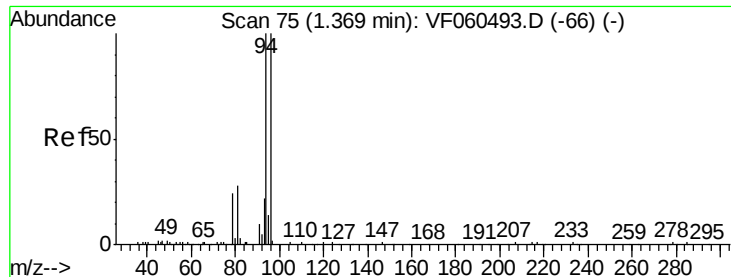
Tgt Ion: 62 Resp: 74888

Ion Ratio Lower Upper

62 100

64 32.0 27.5 41.3





#5

Bromomethane

Concen: 20.163 ug/l

RT: 1.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 53043

Ion Ratio Lower Upper

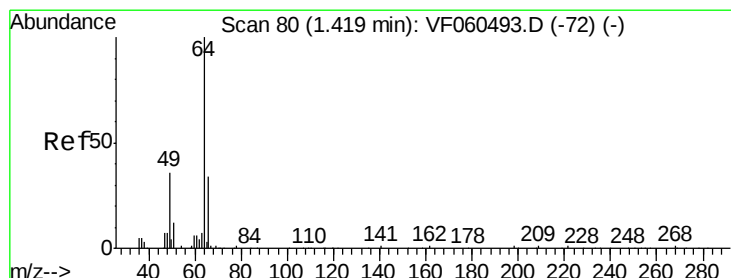
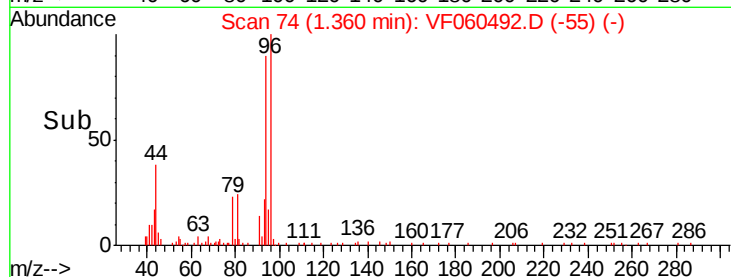
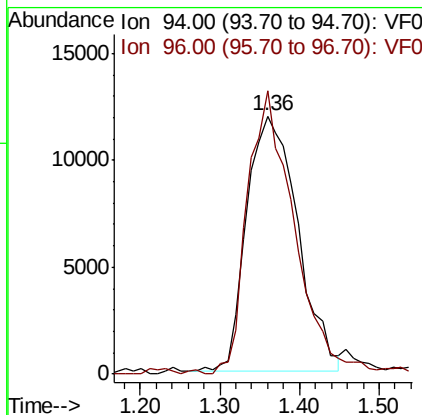
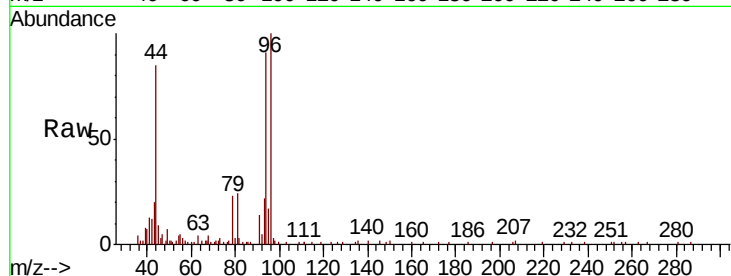
94 100

96 109.8 80.6 120.8

Manual Integrations
APPROVED

apatel

10/10/2018 12:33:47 PM



#6

Chloroethane

Concen: 23.175 ug/l

RT: 1.43 min Scan# 81

Delta R.T. 0.01 min

Lab File: VF060492.D

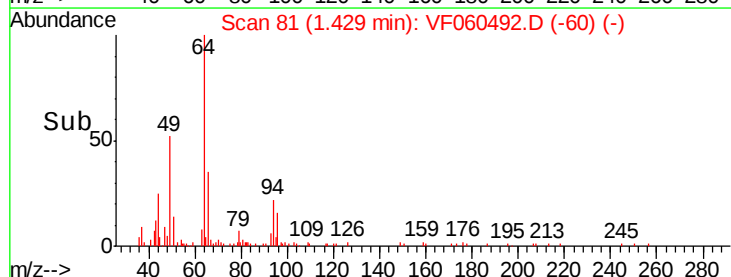
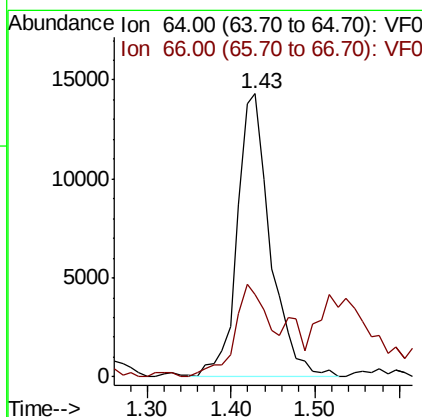
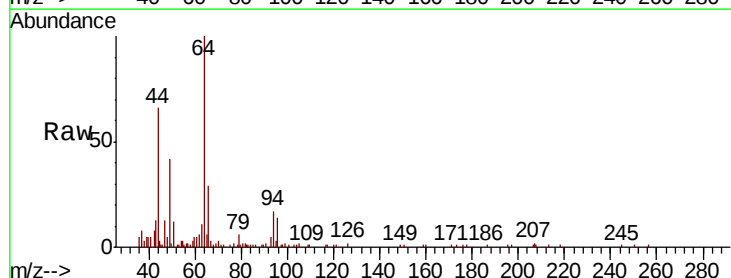
Acq: 9 Oct 2018 15:43

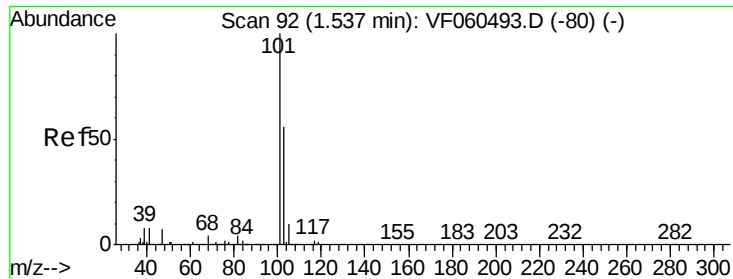
Tgt Ion: 64 Resp: 39235

Ion Ratio Lower Upper

64 100

66 29.2 27.0 40.6





#7

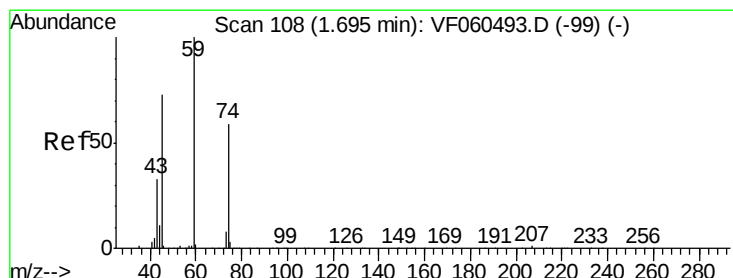
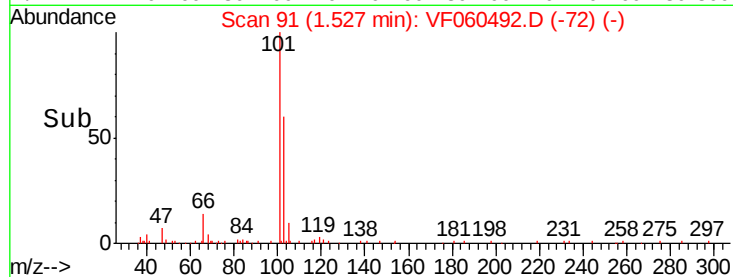
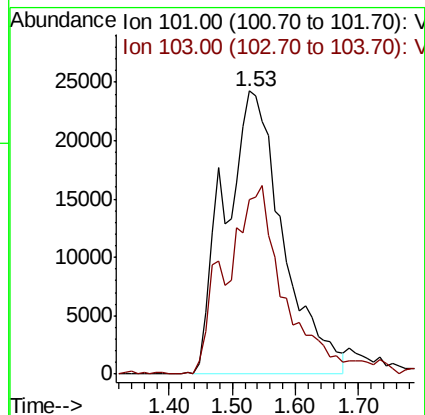
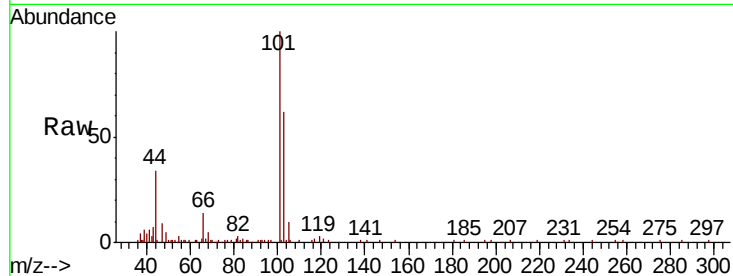
Trichlorofluoromethane
Concen: 19.828 ug/l m
RT: 1.53 min Scan# 91
Delta R.T. -0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.5	44.6	66.8

Manual Integrations
APPROVED

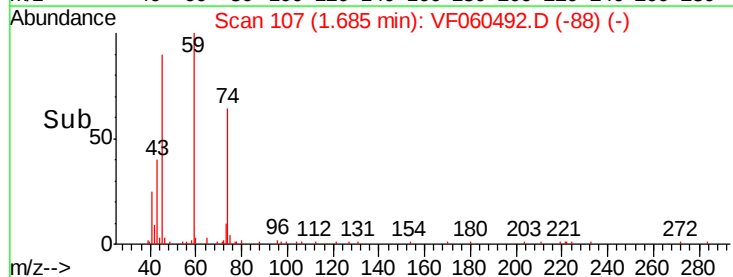
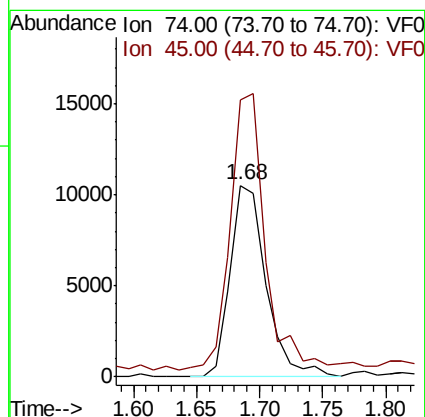
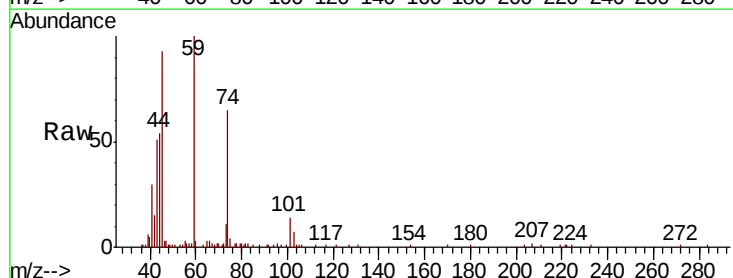
apatel
10/10/2018 12:33:47 PM

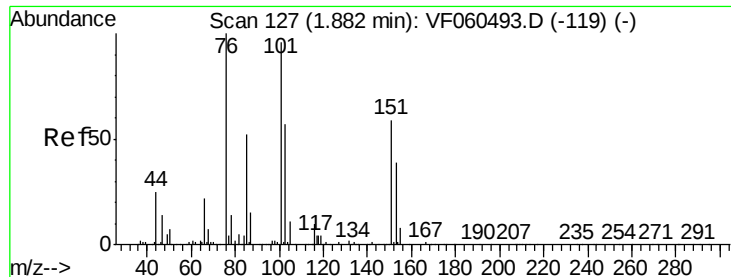


#8

Diethyl Ether
Concen: 18.814 ug/l
RT: 1.68 min Scan# 107
Delta R.T. -0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
74	100		
45	144.4	62.7	188.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.729 ug/l

RT: 1.88 min Scan# 127

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

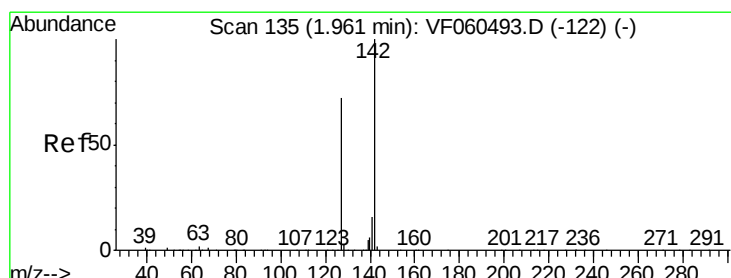
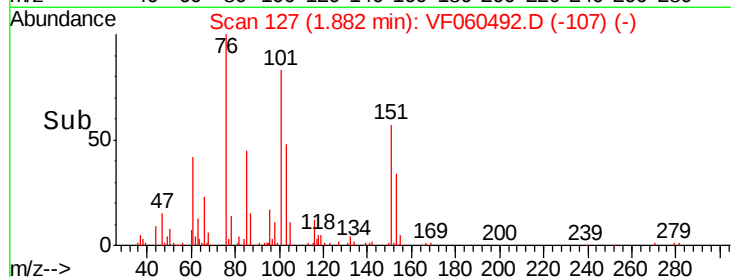
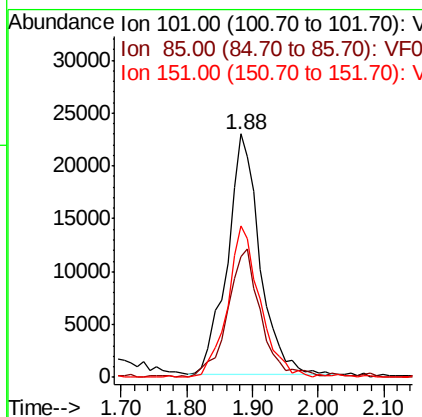
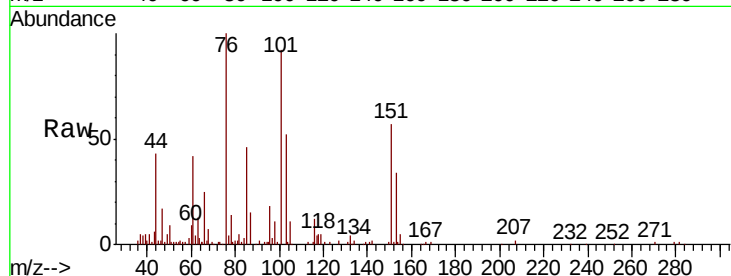
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	78645
Ion Ratio	Lower	Upper	
101	100		
85	49.6	41.8	62.6
151	62.2	47.4	71.0

Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM



#10

Methyl Iodide

Concen: 21.286 ug/l m

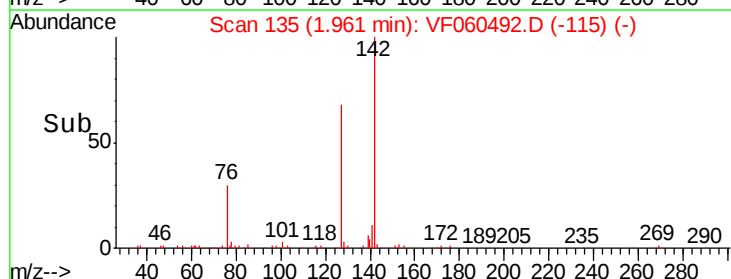
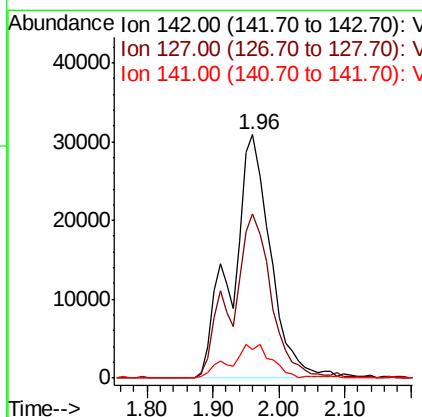
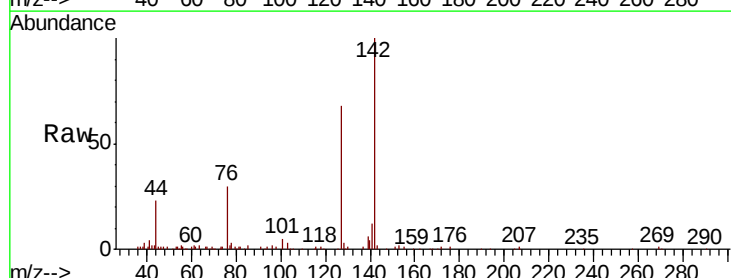
RT: 1.96 min Scan# 135

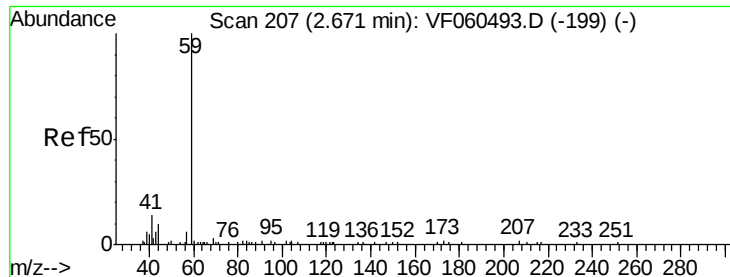
Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Tgt Ion:	142	Resp:	124198
Ion Ratio	Lower	Upper	
142	100		
127	67.7	57.9	86.9
141	12.0	12.7	19.1#





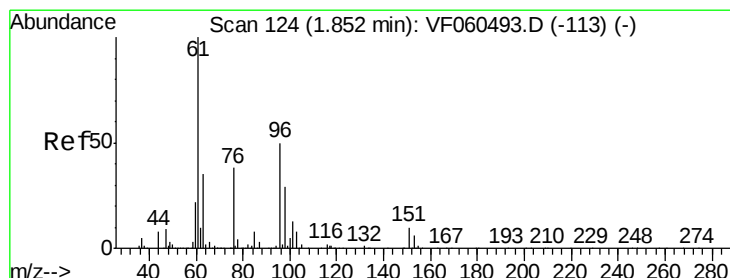
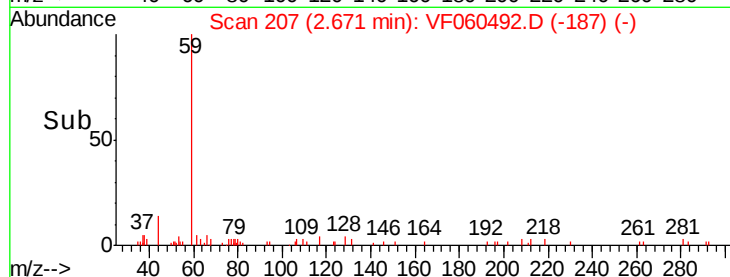
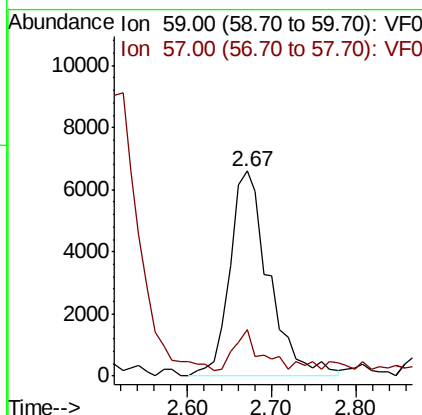
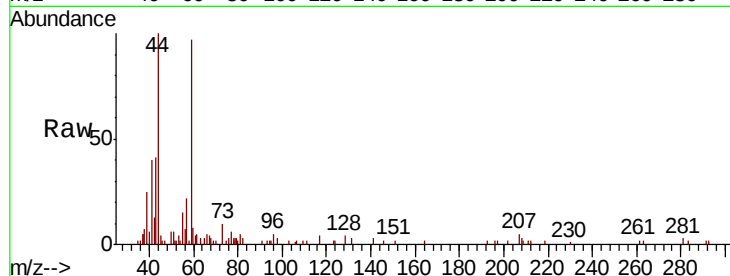
#11
Tert butyl alcohol
Concen: 94.680 ug/l
RT: 2.67 min Scan# 207
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	22.5	10.2	15.2#

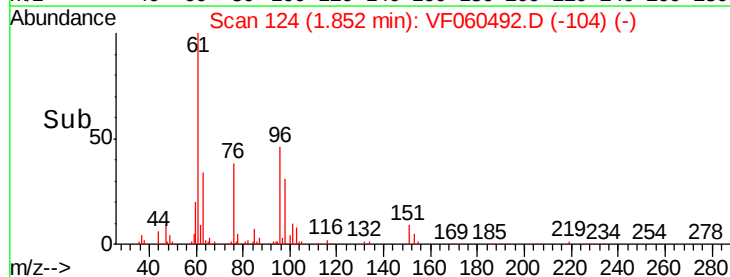
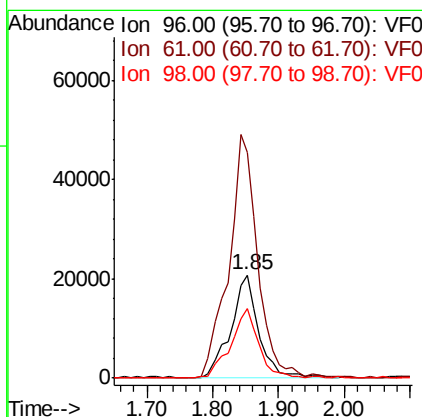
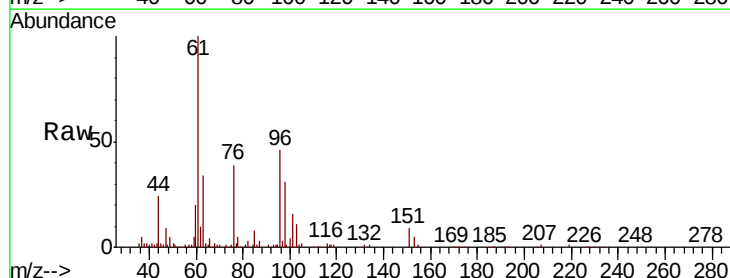
Manual Integrations
APPROVED

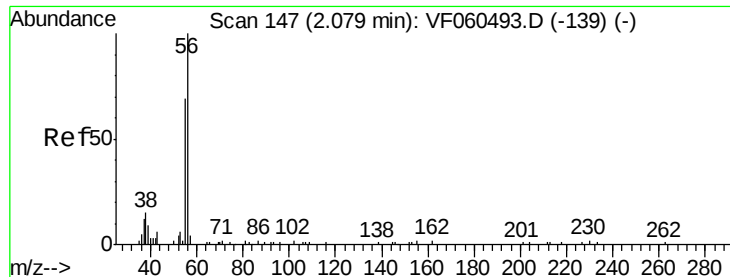
apatel
10/10/2018 12:33:47 PM



#12
1,1-Dichloroethene
Concen: 20.406 ug/l
RT: 1.85 min Scan# 124
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	218.7	161.9	242.9
98	68.2	47.4	71.2





#13

Acrolein

Concen: 90.726 ug/l

RT: 2.07 min Scan# 146

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 15267

Ion Ratio Lower Upper

56 100

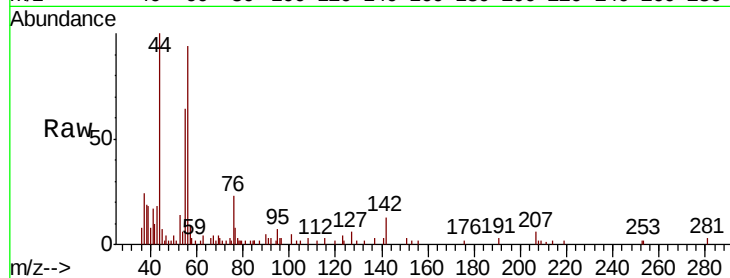
55 68.5 55.3 82.9

Manual Integrations

APPROVED

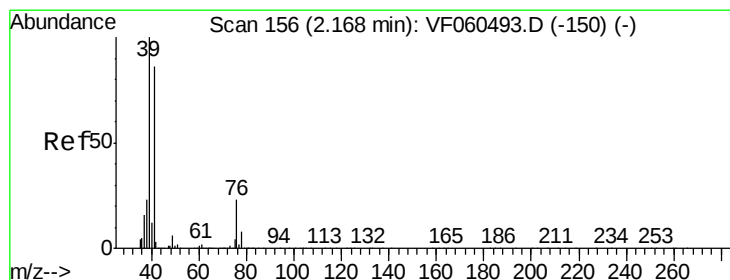
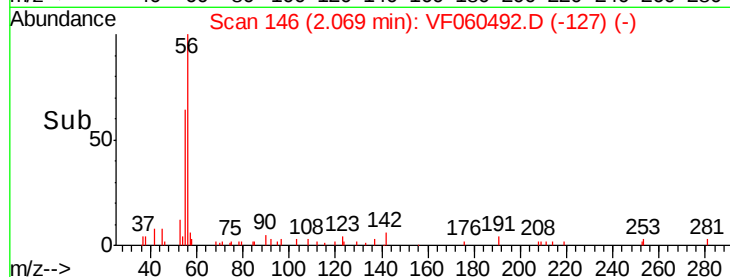
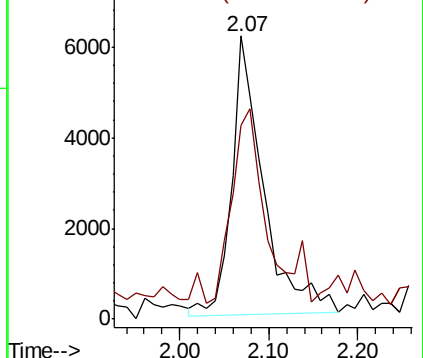
apatel

10/10/2018 12:33:47 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 19.744 ug/l

RT: 2.17 min Scan# 156

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

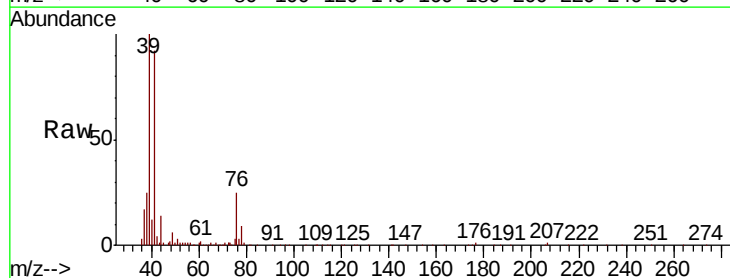
Tgt Ion: 41 Resp: 92037

Ion Ratio Lower Upper

41 100

39 109.2 93.1 139.7

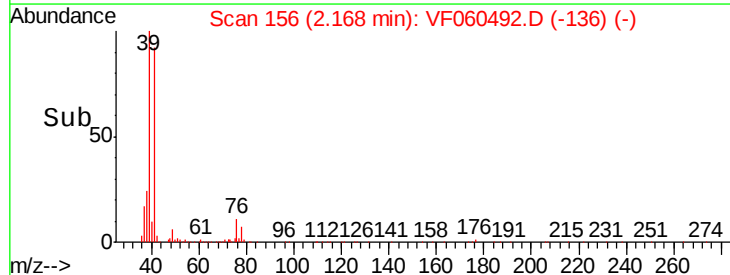
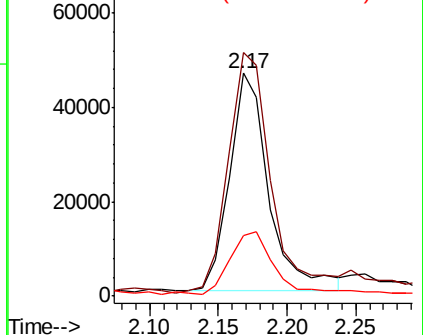
76 26.9 21.6 32.4

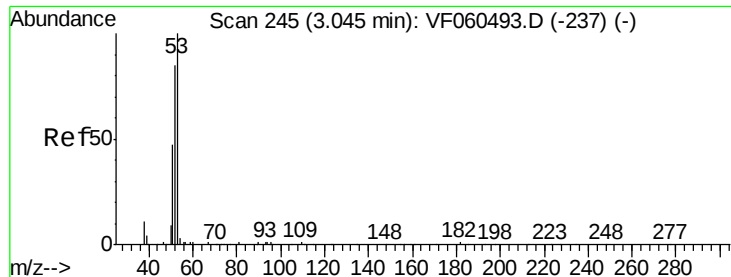


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





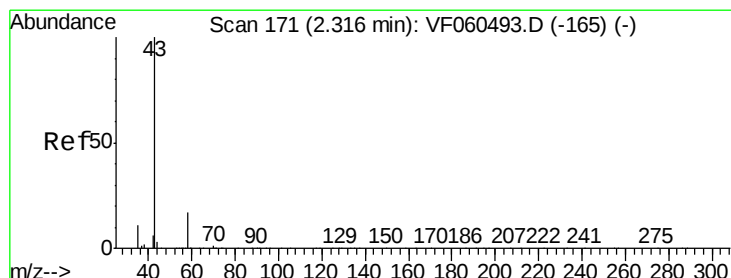
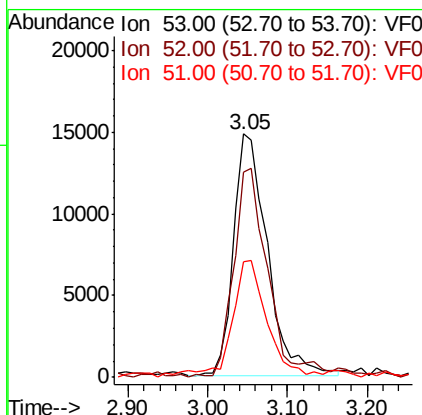
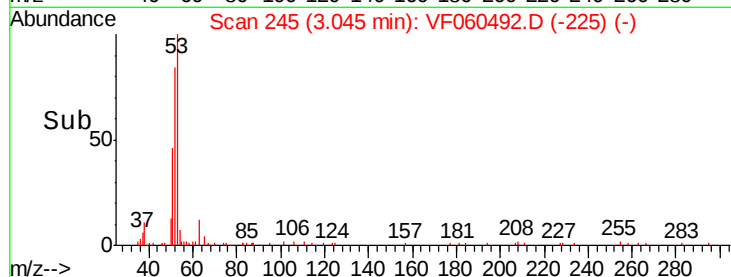
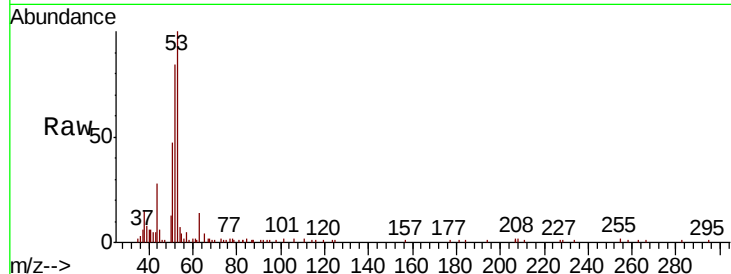
#15
 Acrylonitrile
 Concen: 110.113 ug/l
 RT: 3.05 min Scan# 245
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion:	53	Resp:	43634
Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.5	101.3
51	47.2	38.2	57.4

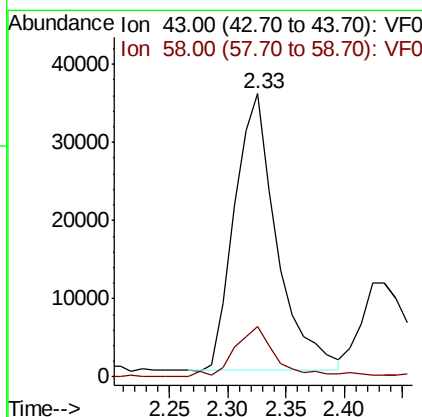
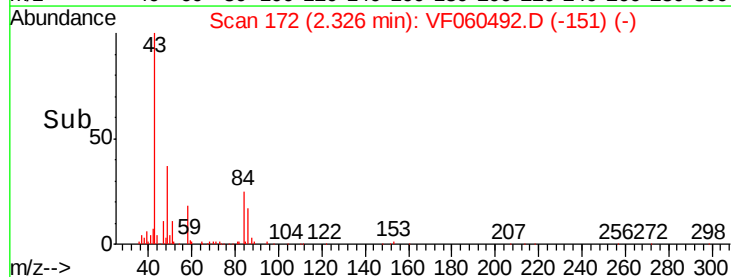
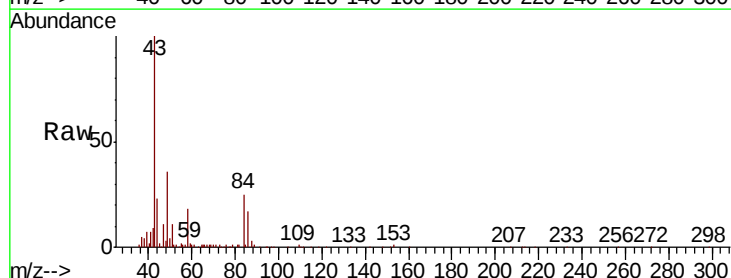
Manual Integrations
 APPROVED

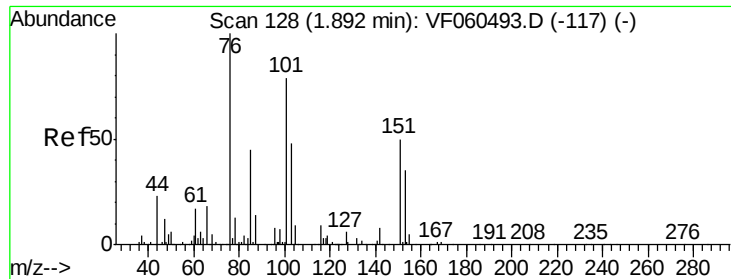
apatel
 10/10/2018 12:33:47 PM



#16
 Acetone
 Concen: 98.100 ug/l
 RT: 2.33 min Scan# 172
 Delta R.T. 0.01 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion:	43	Resp:	88814
Ion	Ratio	Lower	Upper
43	100		
58	17.9	13.2	19.8





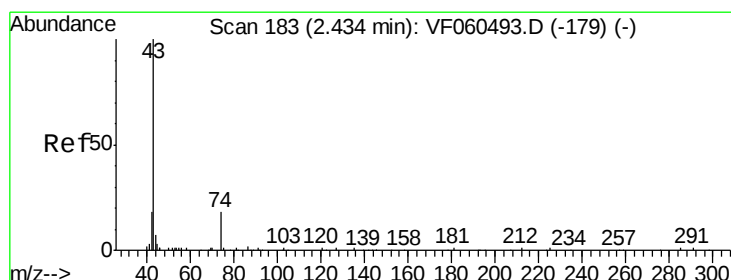
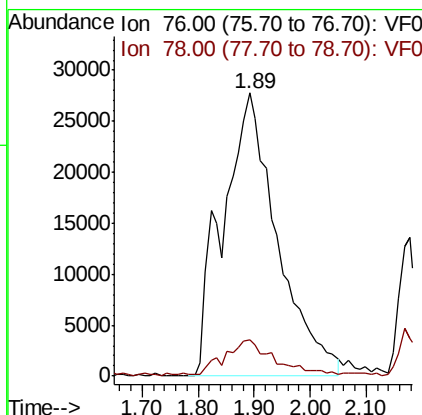
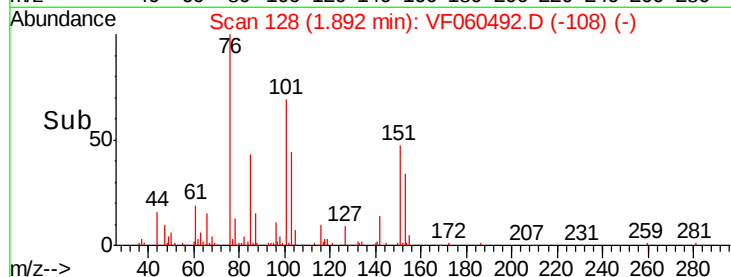
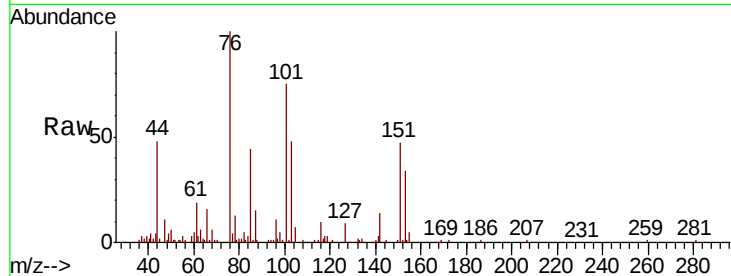
#17
Carbon Disulfide
Concen: 21.271 ug/l
RT: 1.89 min Scan# 128
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 76 Resp: 187811
Ion Ratio Lower Upper
76 100
78 13.1 10.5 15.7

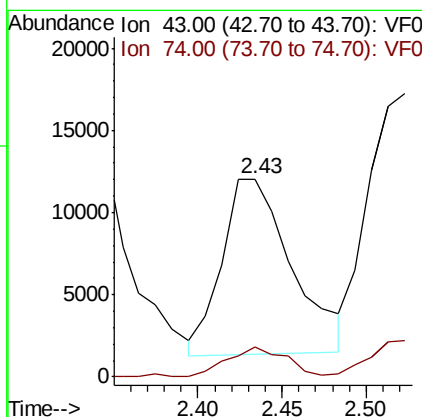
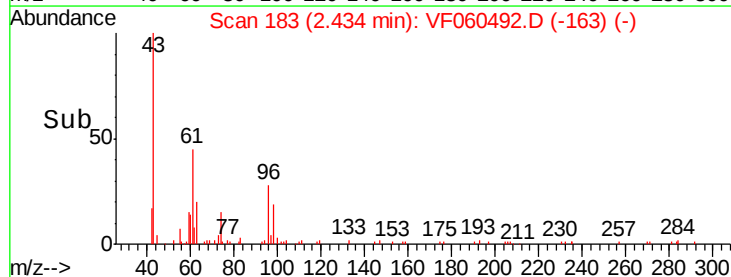
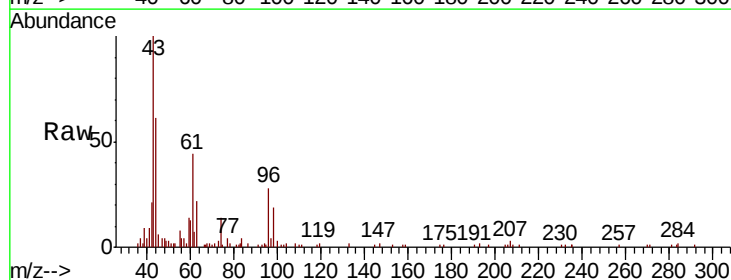
Manual Integrations
APPROVED

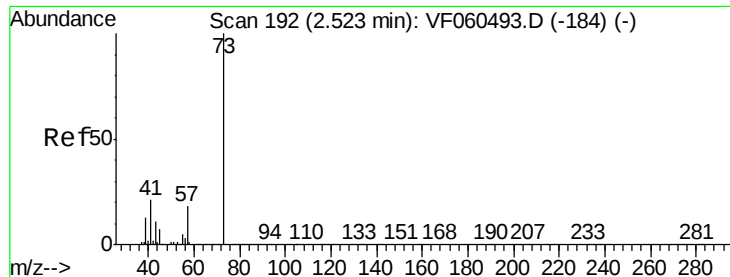
apatel
10/10/2018 12:33:47 PM



#18
Methyl Acetate
Concen: 19.323 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion: 43 Resp: 30882
Ion Ratio Lower Upper
43 100
74 15.2 12.9 19.3





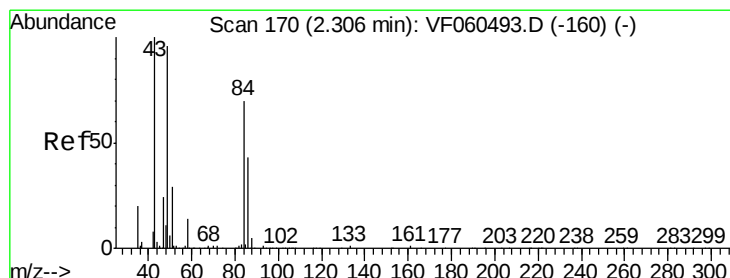
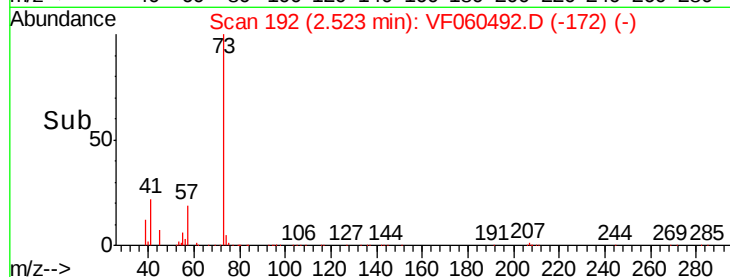
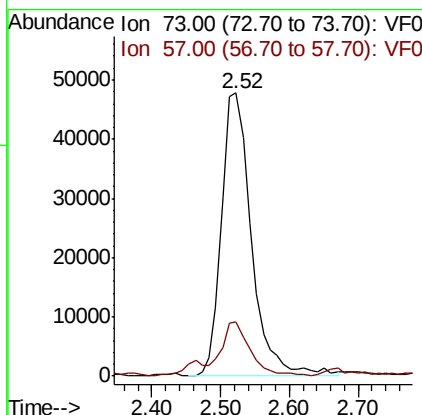
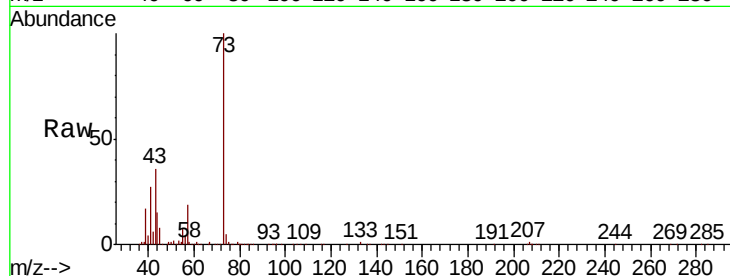
#19
Methyl tert-butyl Ether
Concen: 20.060 ug/l
RT: 2.52 min Scan# 192
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.1	15.0	22.6

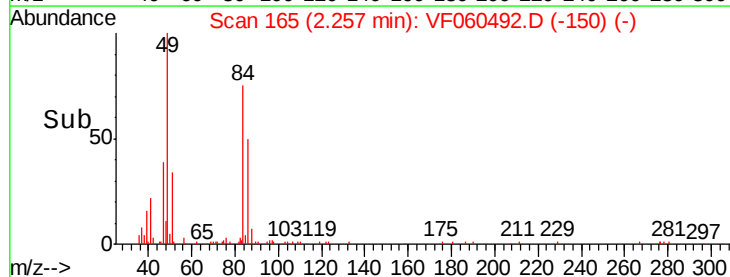
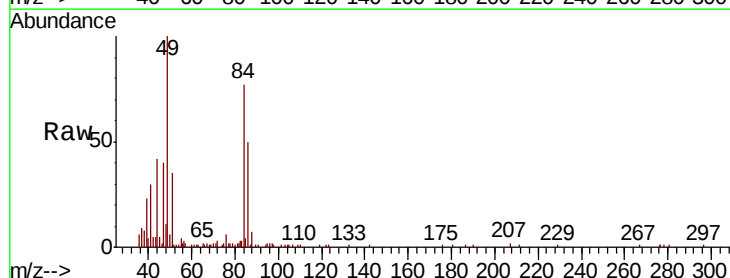
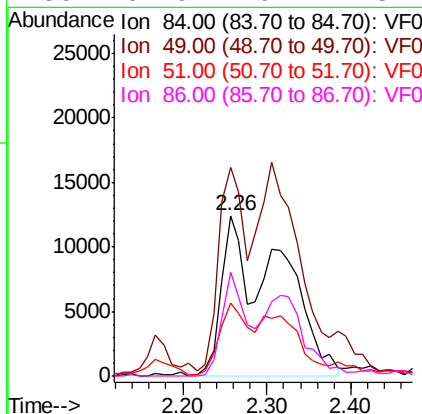
Manual Integrations
APPROVED

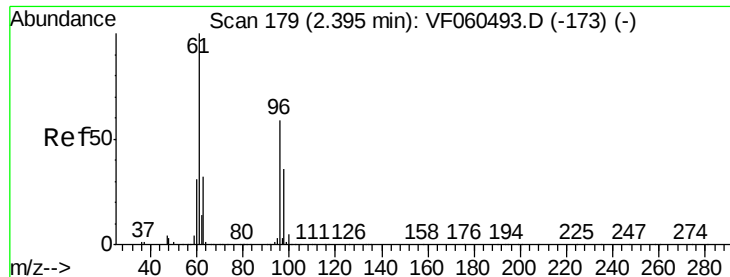
apatel
10/10/2018 12:33:47 PM



#20
Methylene Chloride
Concen: 17.859 ug/l m
RT: 2.26 min Scan# 165
Delta R.T. -0.05 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	130.0	111.5	167.3
51	45.5	34.6	52.0
86	64.9	49.1	73.7





#21

trans-1,2-Dichloroethene

Concen: 19.711 ug/l

RT: 2.39 min Scan# 179

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

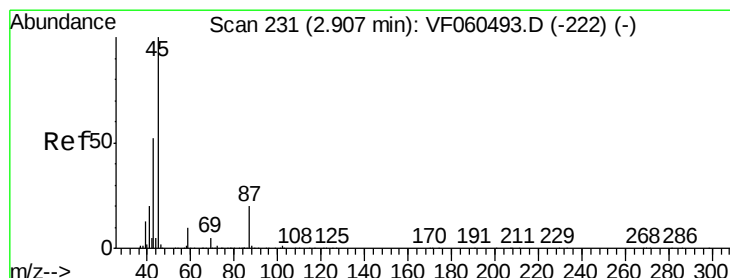
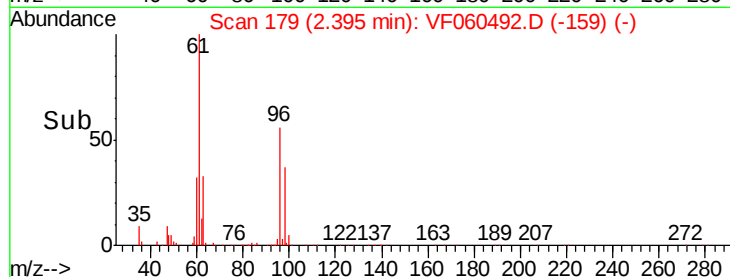
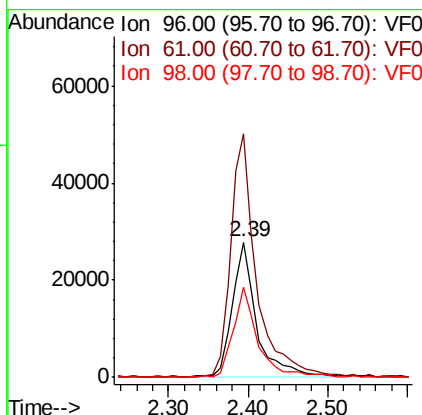
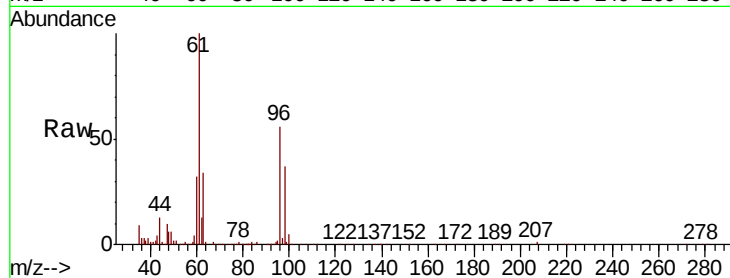
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	58448
Ion	Ratio	Lower	Upper
96	100		
61	179.8	136.2	204.4
98	66.3	49.7	74.5

Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM



#22

Diisopropyl ether

Concen: 22.656 ug/l

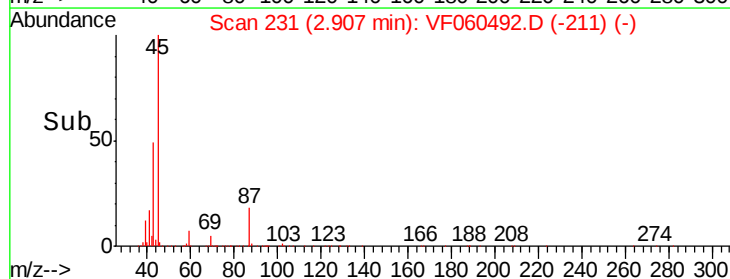
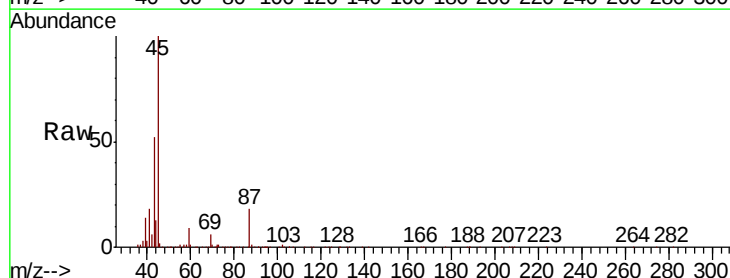
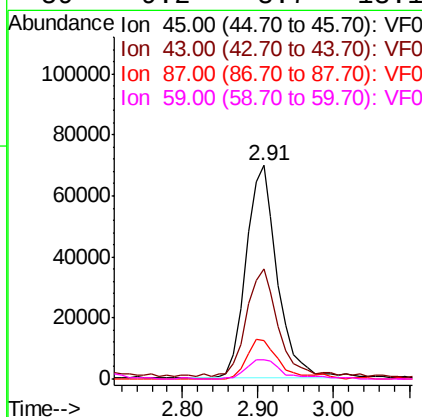
RT: 2.91 min Scan# 231

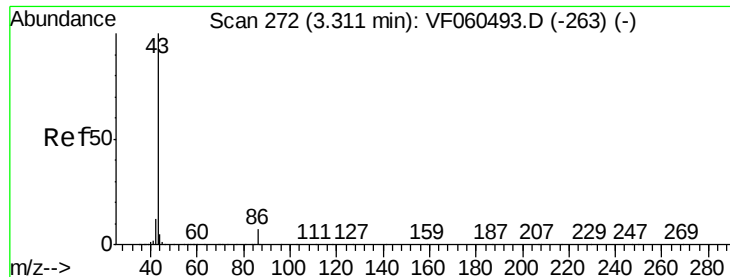
Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Tgt Ion:	45	Resp:	199352
Ion	Ratio	Lower	Upper
45	100		
43	51.7	41.8	62.8
87	18.2	15.7	23.5
59	9.2	8.7	13.1





#23

Vinyl Acetate

Concen: 107.794 ug/l

RT: 3.30 min Scan# 271

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 366483

Ion Ratio Lower Upper

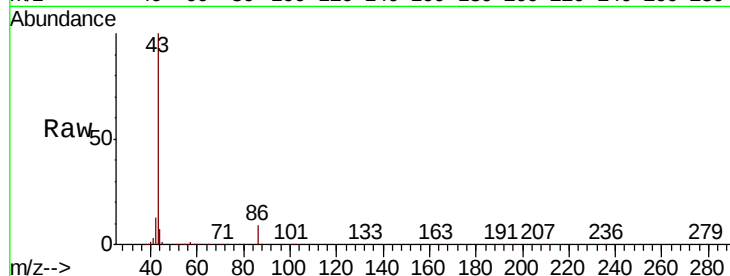
43 100

86 8.8 5.8 8.8#

Manual Integrations
APPROVED

apatel

10/10/2018 12:33:47 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.30

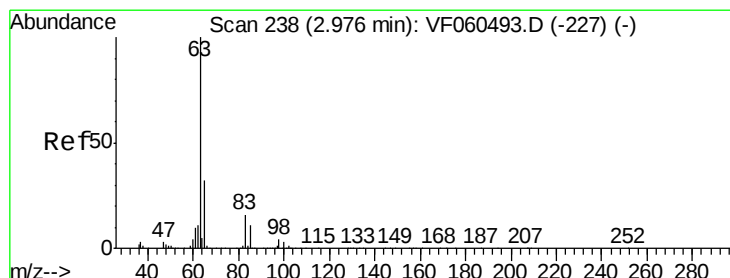
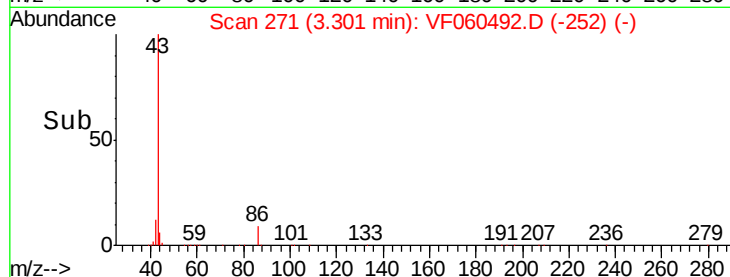
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 22.229 ug/l

RT: 2.98 min Scan# 238

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

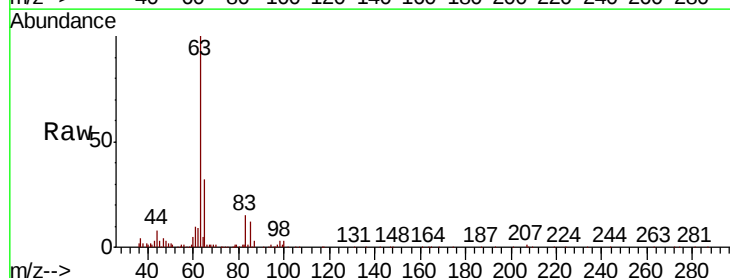
Tgt Ion: 63 Resp: 131667

Ion Ratio Lower Upper

63 100

98 3.5 2.2 6.6

100 2.6 1.5 4.4



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.98

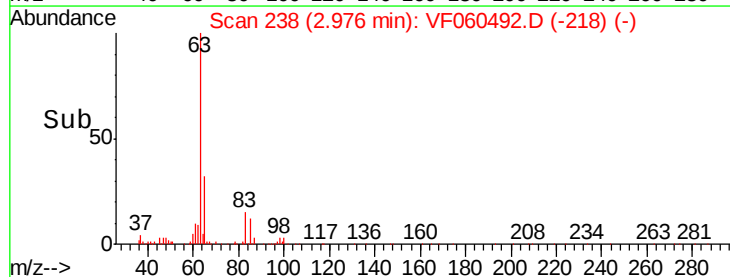
60000

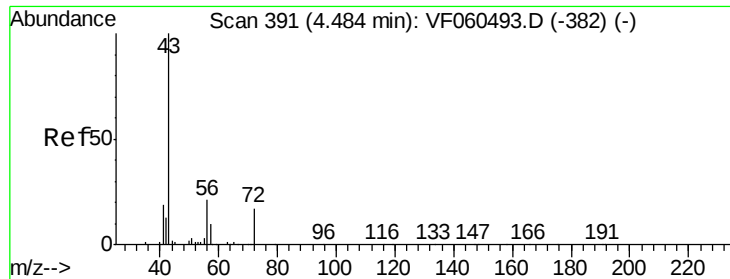
40000

20000

0

Time-->





#25

2-Butanone

Concen: 99.972 ug/l

RT: 4.47 min Scan# 390

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 97845

Ion Ratio Lower Upper

43 100

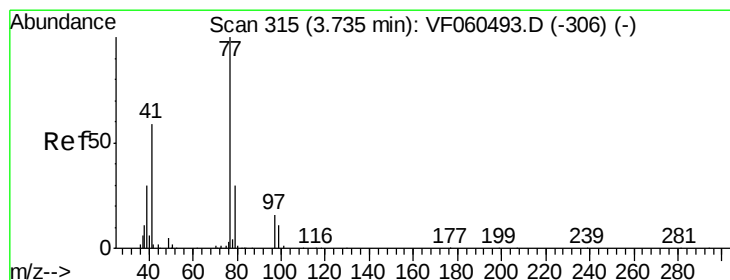
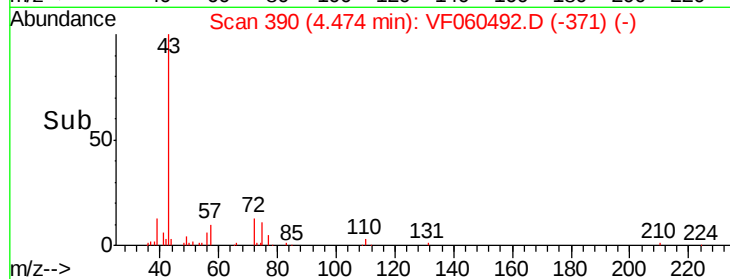
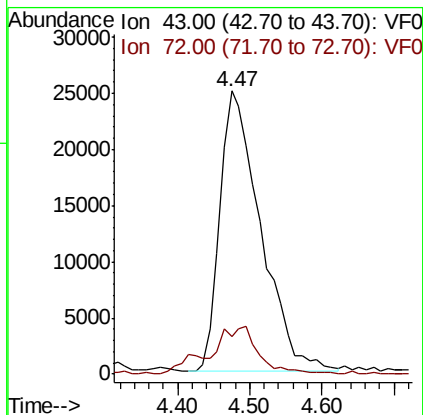
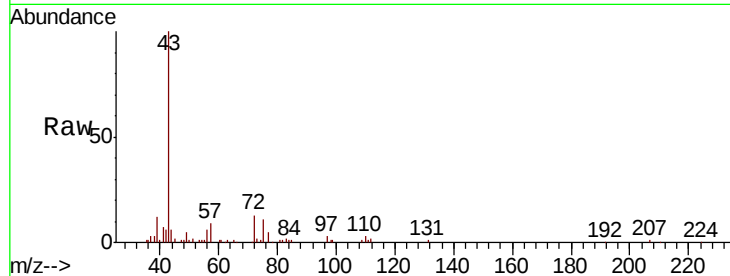
72 13.4 15.0 22.6#

Manual Integrations

APPROVED

apatel

10/10/2018 12:33:47 PM



#26

2,2-Dichloropropane

Concen: 22.172 ug/l

RT: 3.73 min Scan# 314

Delta R.T. -0.01 min

Lab File: VF060492.D

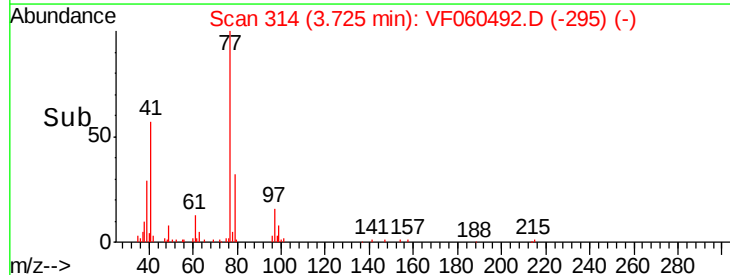
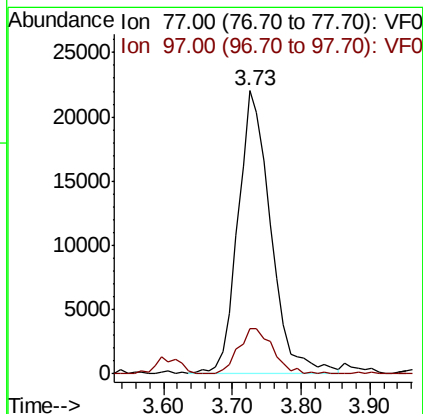
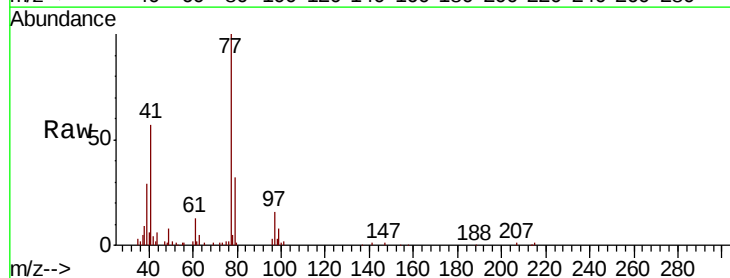
Acq: 9 Oct 2018 15:43

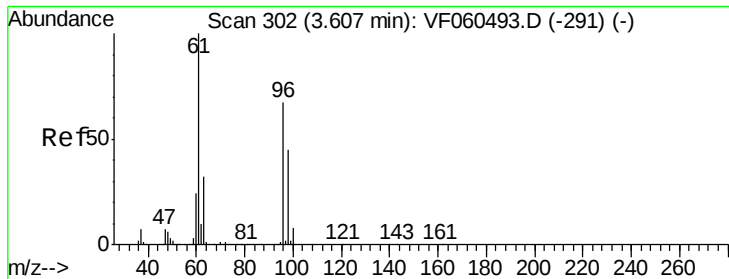
Tgt Ion: 77 Resp: 72841

Ion Ratio Lower Upper

77 100

97 15.9 8.6 25.7





#27

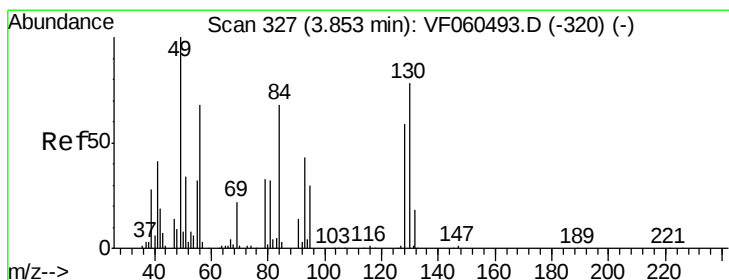
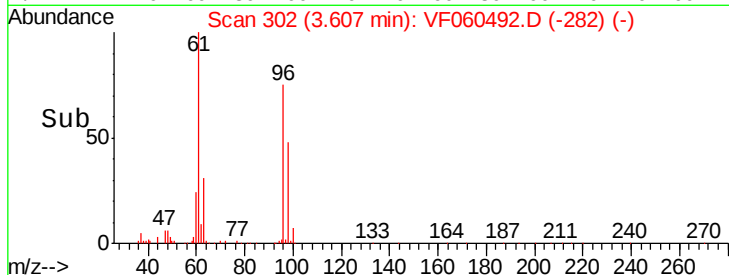
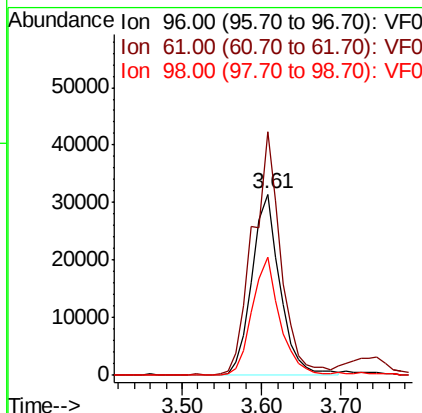
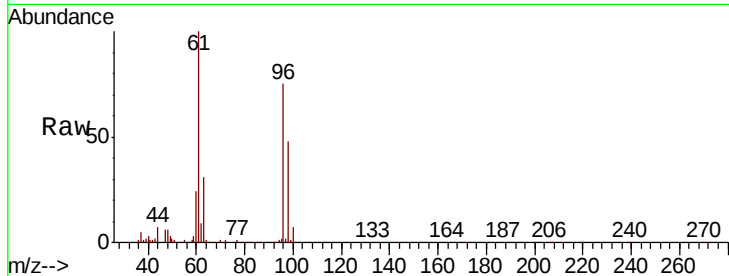
cis-1,2-Dichloroethene
 Concen: 23.110 ug/l
 RT: 3.61 min Scan# 302
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.2	0.0	298.0
98	65.0	0.0	135.0

Manual Integrations
 APPROVED

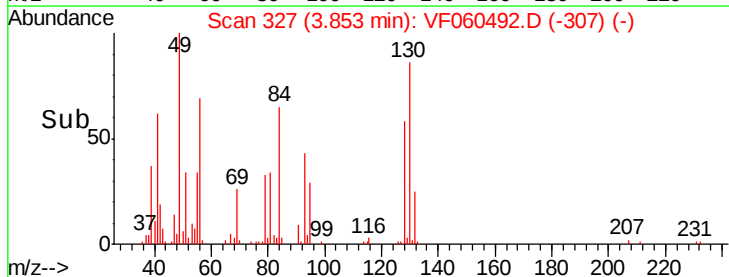
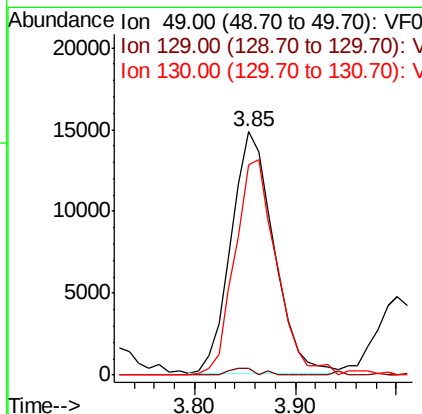
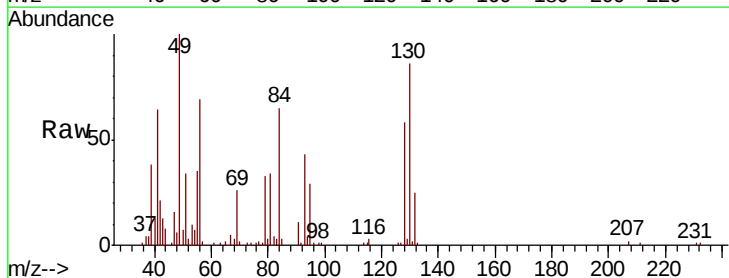
apatel
 10/10/2018 12:33:47 PM

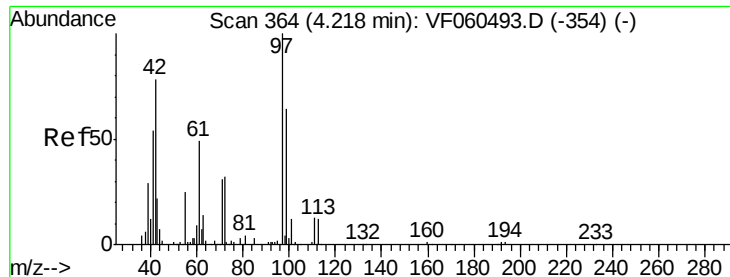


#28

Bromochloromethane
 Concen: 20.627 ug/l
 RT: 3.85 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.7	0.0	0.0#
130	86.4	62.2	93.2





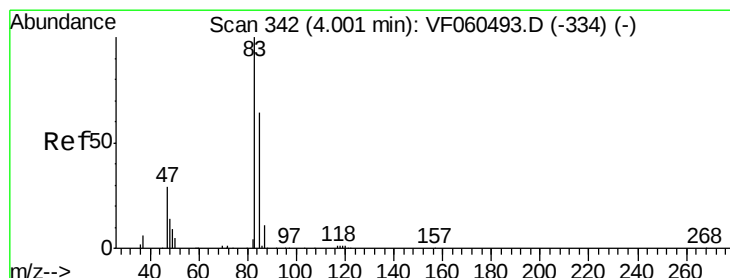
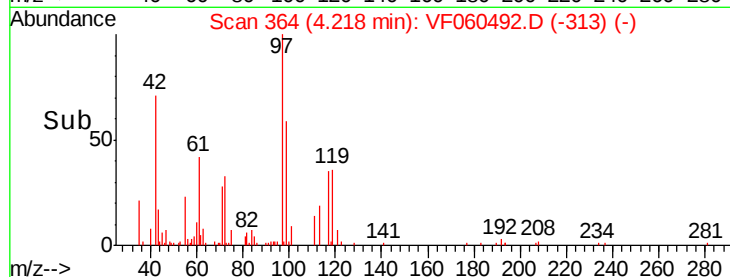
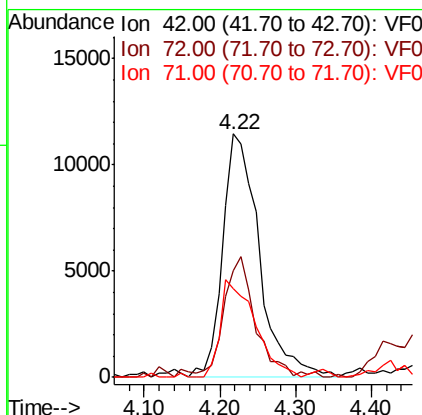
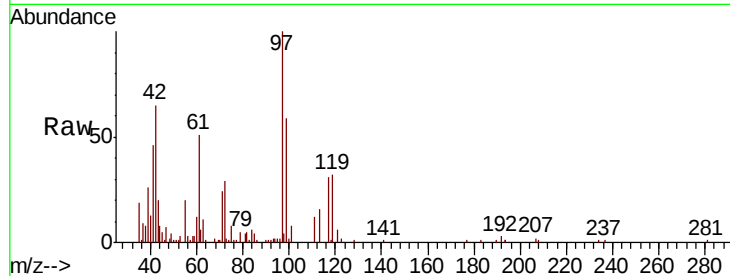
#29
Tetrahydrofuran
Concen: 97.007 ug/l
RT: 4.22 min Scan# 364
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.5	31.9	47.9
71	38.4	33.4	50.0

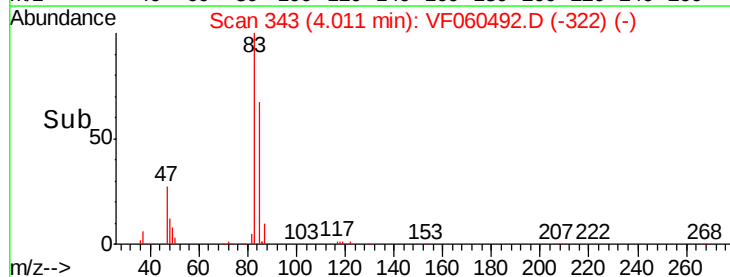
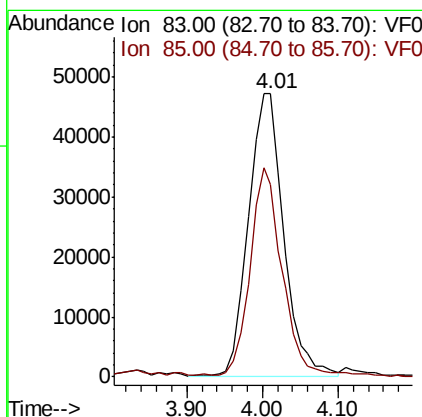
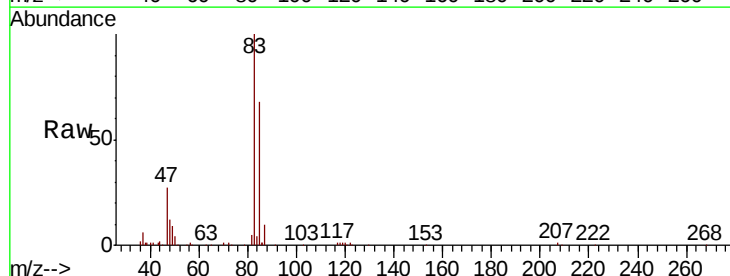
Manual Integrations
APPROVED

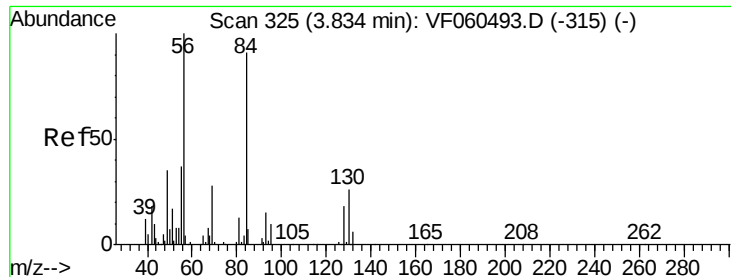
apatel
10/10/2018 12:33:47 PM



#30
Chloroform
Concen: 21.572 ug/l
RT: 4.01 min Scan# 343
Delta R.T. 0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.6	51.7	77.5





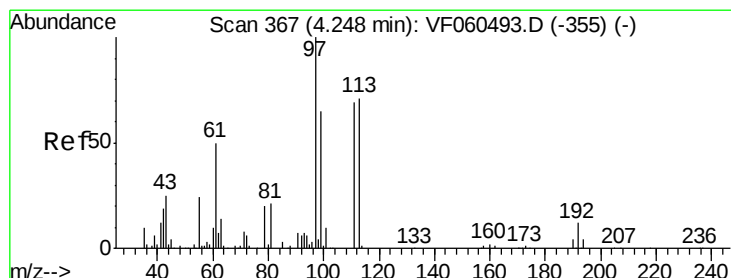
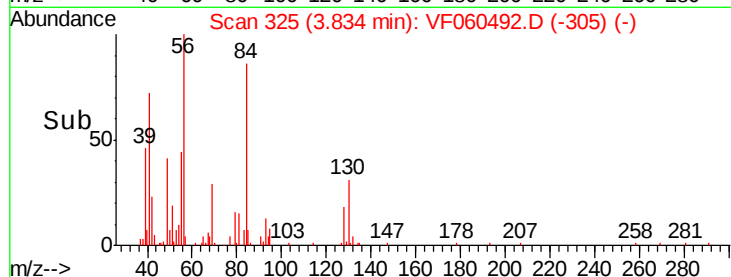
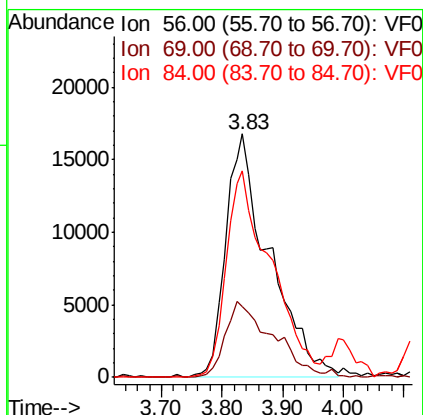
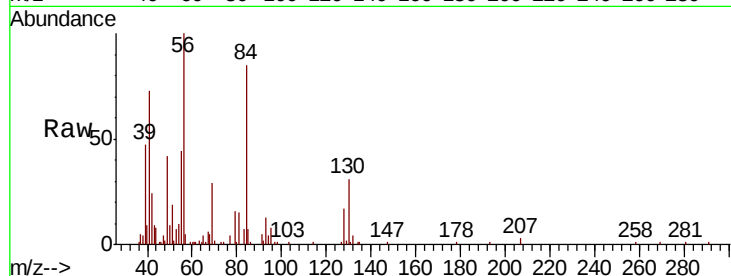
#31
Cyclohexane
Concen: 20.272 ug/l
RT: 3.83 min Scan# 325
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.0	22.7	34.1
84	85.0	73.1	109.7

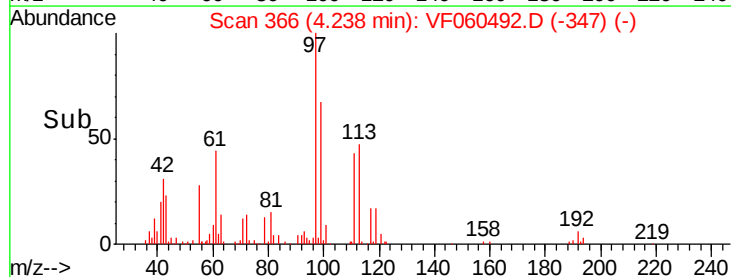
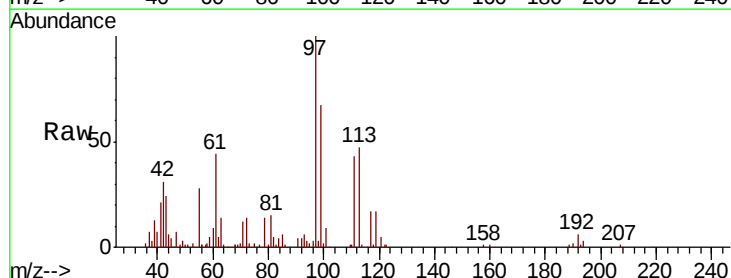
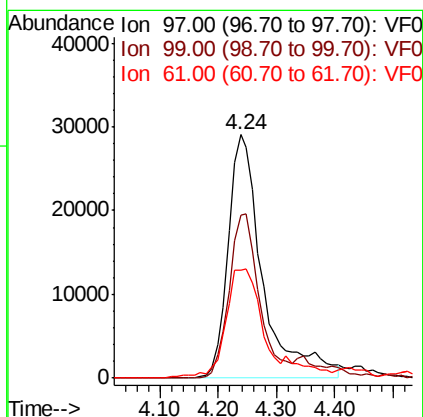
Manual Integrations
APPROVED

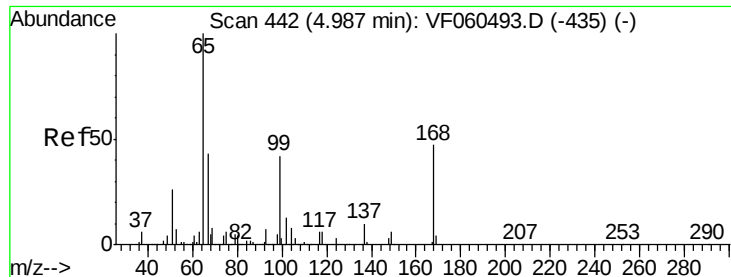
apatel
10/10/2018 12:33:47 PM



#32
1,1,1-Trichloroethane
Concen: 20.451 ug/l
RT: 4.24 min Scan# 366
Delta R.T. -0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.8	52.3	78.5
61	44.5	39.8	59.8





#33

1,2-Dichloroethane-d4

Concen: 20.712 ug/l

RT: 4.99 min Scan# 442

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 65 Resp: 78706

Ion Ratio Lower Upper

65 100

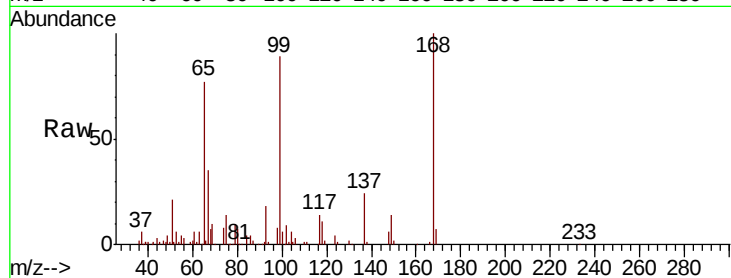
67 45.1 0.0 94.6

Manual Integrations

APPROVED

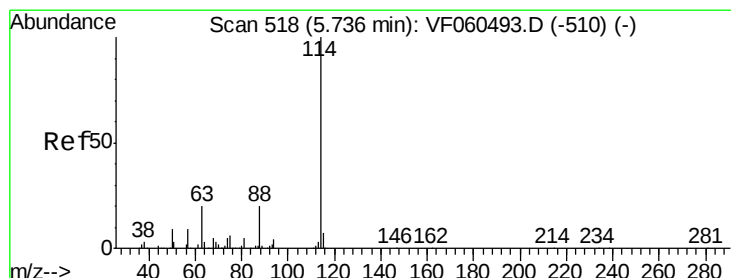
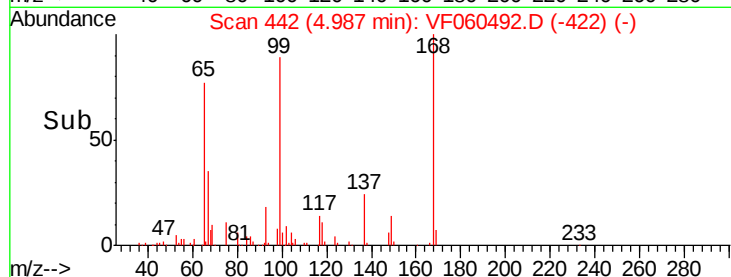
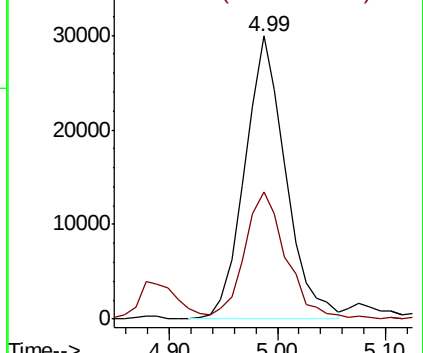
apatel

10/10/2018 12:33:47 PM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 518

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

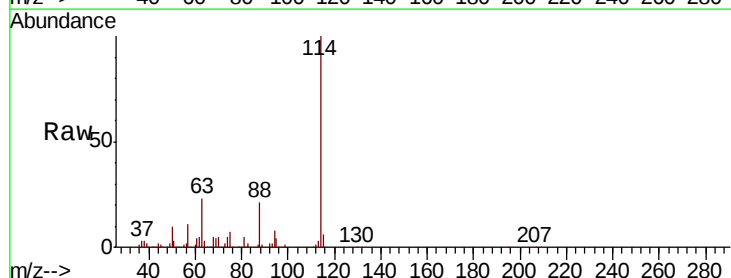
Tgt Ion: 114 Resp: 405099

Ion Ratio Lower Upper

114 100

63 23.1 0.0 40.2

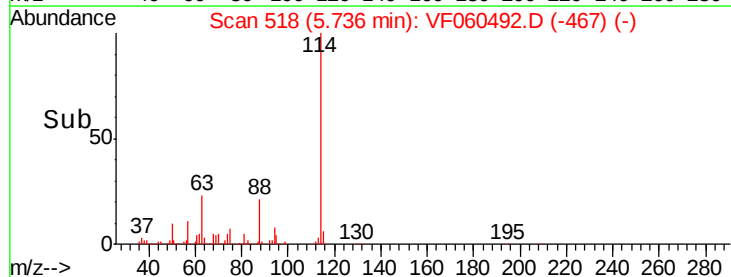
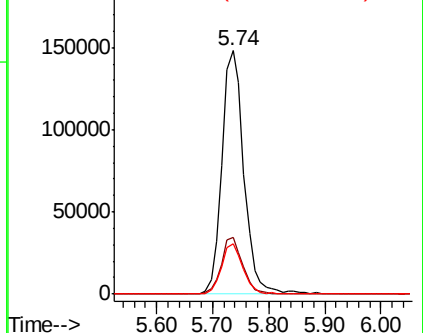
88 20.8 0.0 40.2

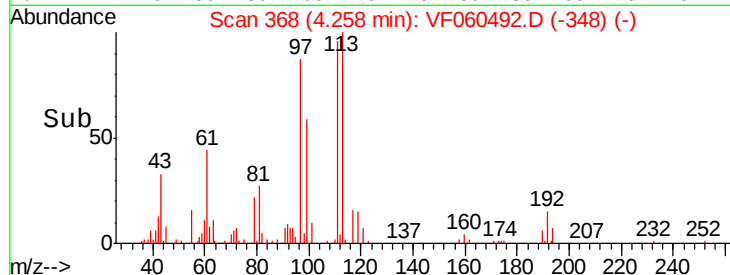
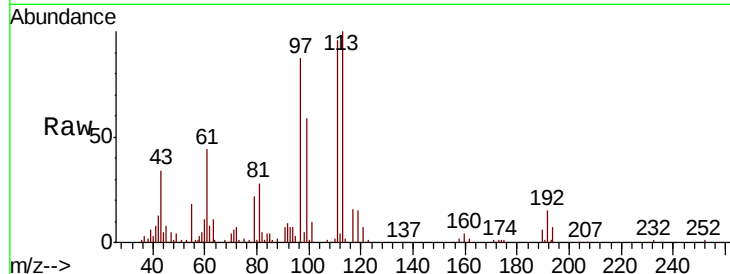
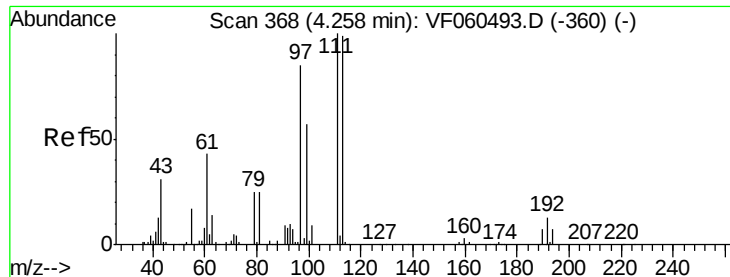


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





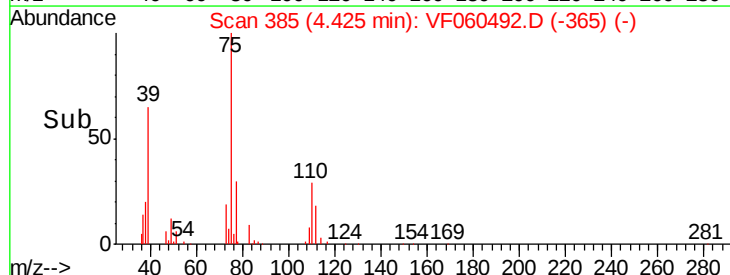
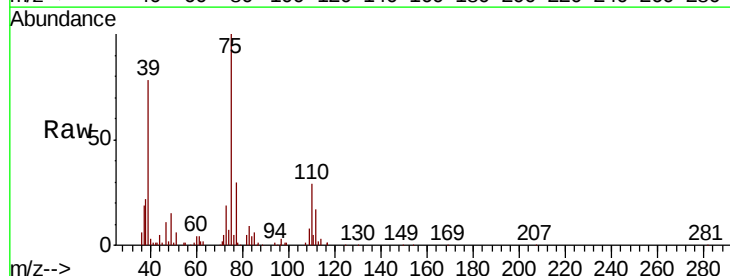
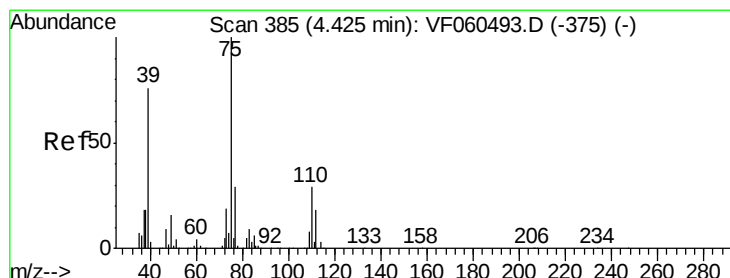
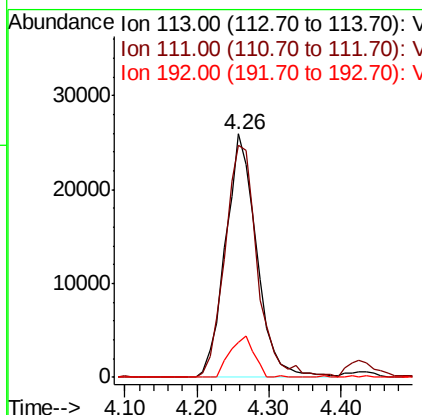
#35
Dibromofluoromethane
Concen: 20.529 ug/l
RT: 4.26 min Scan# 368
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tot Ion	Ratio	Resp	Lower	Upper
113	100	77753		
111	95.6	81.0	121.6	
192	14.6	10.7	16.1	

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

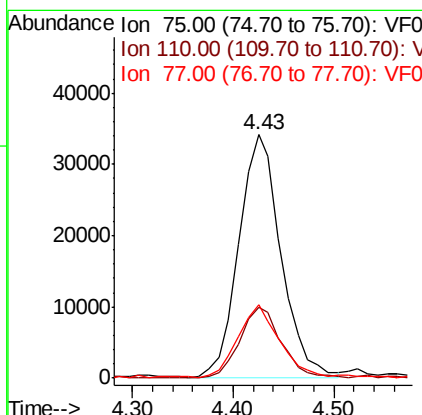
Manual Integrations
APPROVED

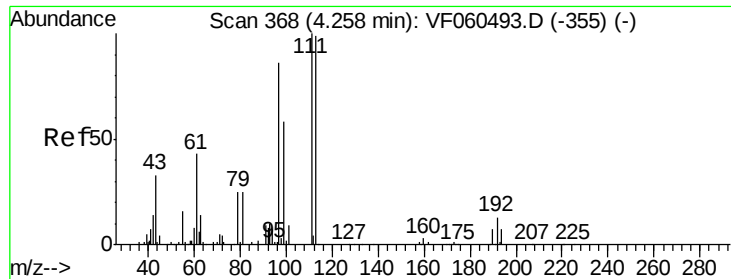
apatel
10/10/2018 12:33:47 PM



#36
1,1-Dichloropropene
Concen: 19.856 ug/l
RT: 4.43 min Scan# 385
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	98331		
110	28.9	14.4	43.2	
77	30.0	23.5	35.3	





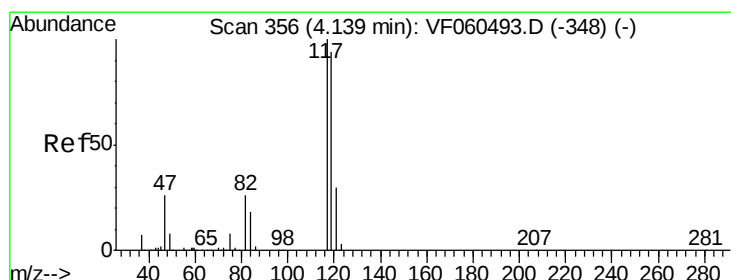
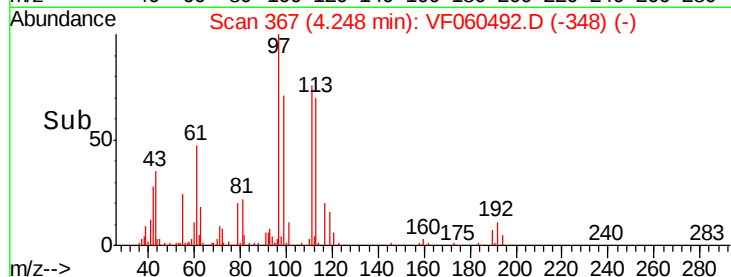
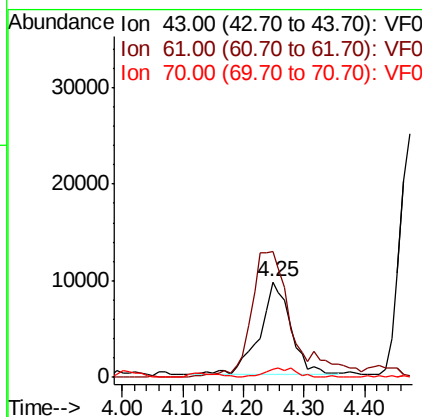
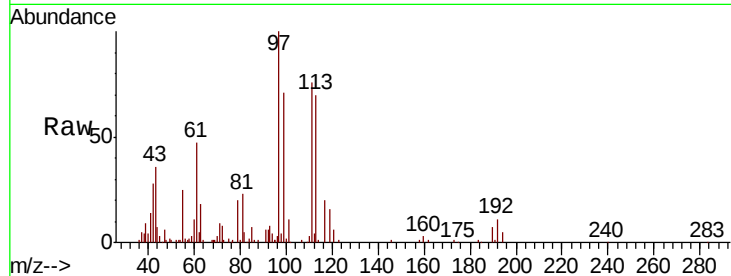
#37
Ethyl Acetate
Concen: 18.363 ug/l
RT: 4.25 min Scan# 367
Delta R.T. -0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	43	Resp	34745
Ion Ratio	100	Lower	Upper
43	100		
61	131.8	106.5	159.7
70	8.2	6.5	9.7

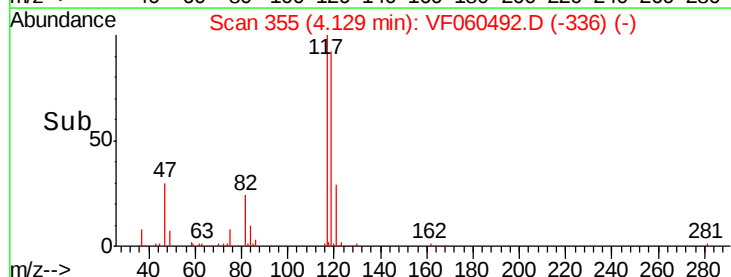
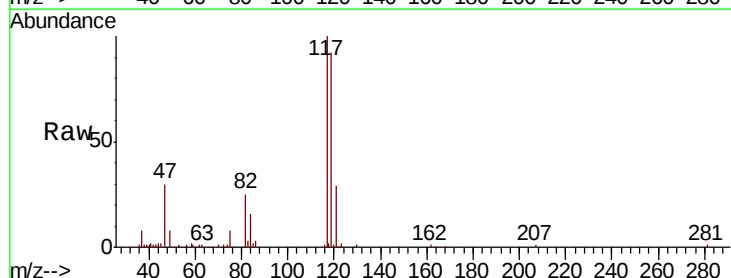
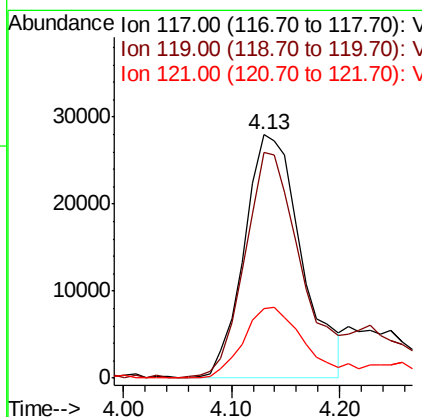
Manual Integrations
APPROVED

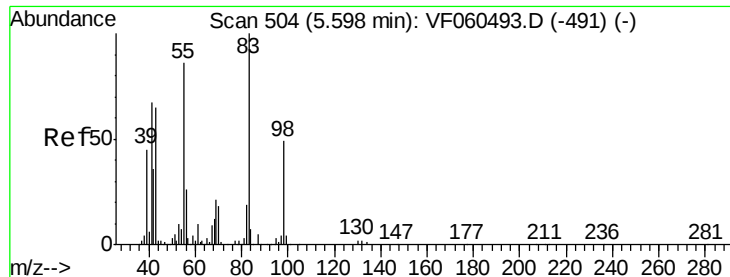
apatel
10/10/2018 12:33:47 PM



#38
Carbon Tetrachloride
Concen: 17.557 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	117	Resp	102719
Ion Ratio	100	Lower	Upper
117	100		
119	92.5	75.0	112.4
121	28.7	23.8	35.6





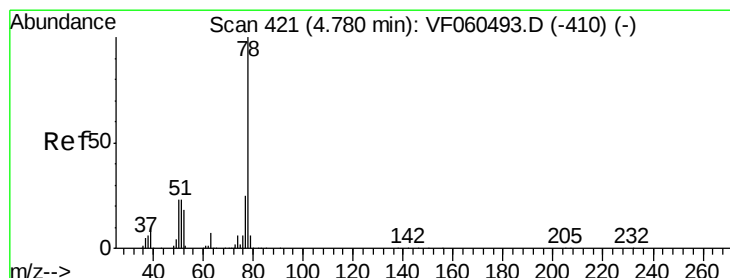
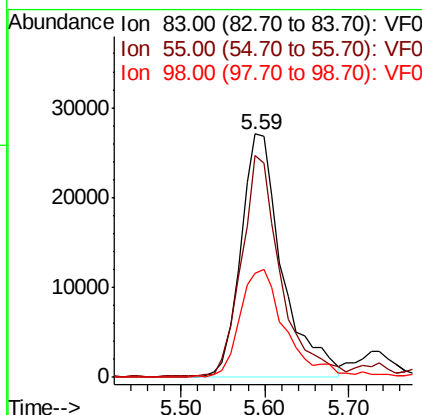
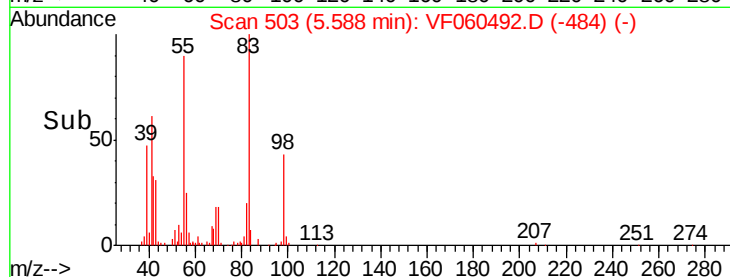
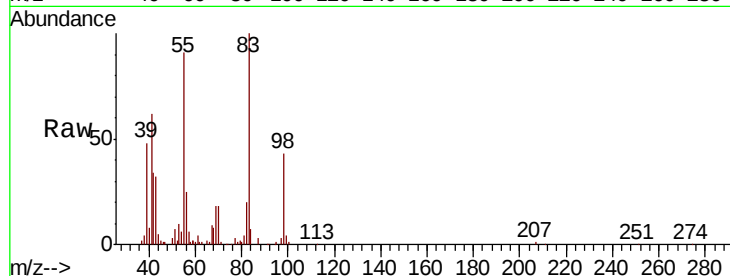
#39
Methvlcvclohexane
Concen: 18.885 ug/l
RT: 5.59 min Scan# 503
Delta R.T. -0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	91.1	69.2	103.8
98	42.7	39.6	59.4

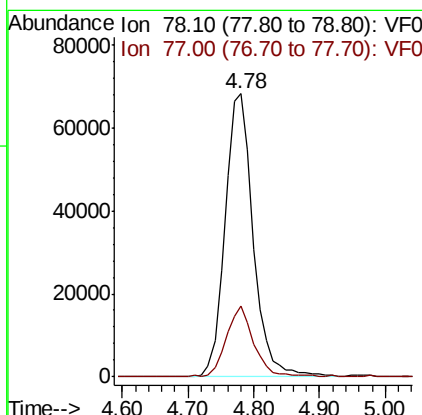
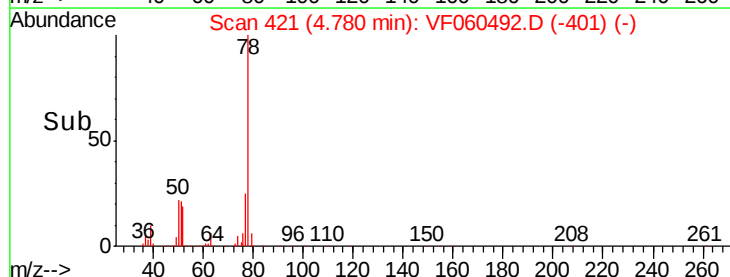
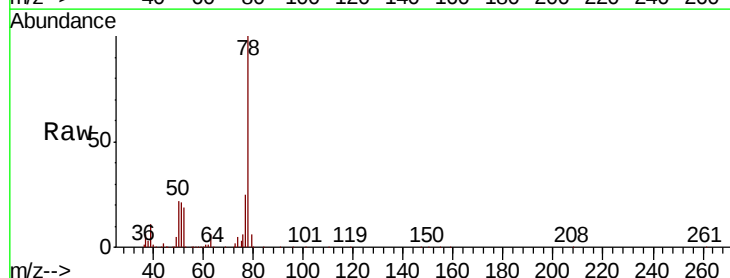
Manual Integrations
APPROVED

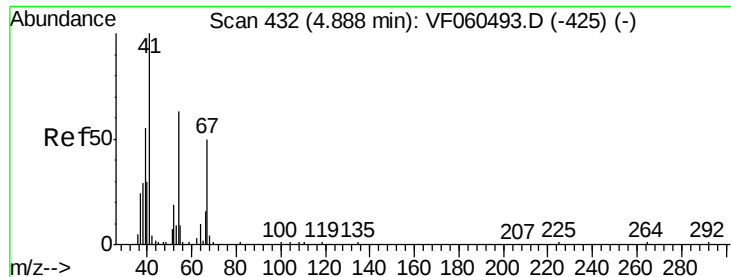
apatel
10/10/2018 12:33:47 PM



#40
Benzene
Concen: 20.525 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.8	29.8





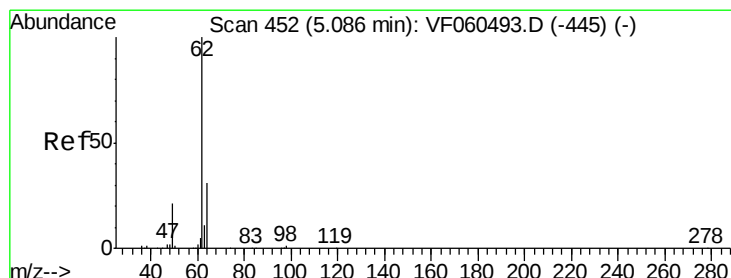
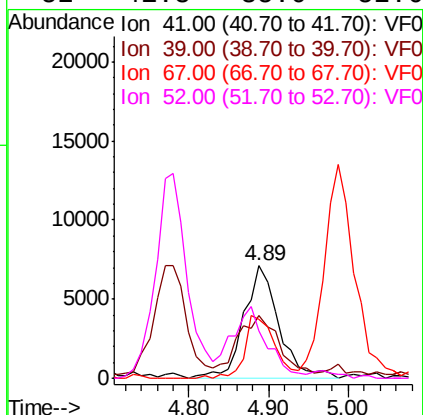
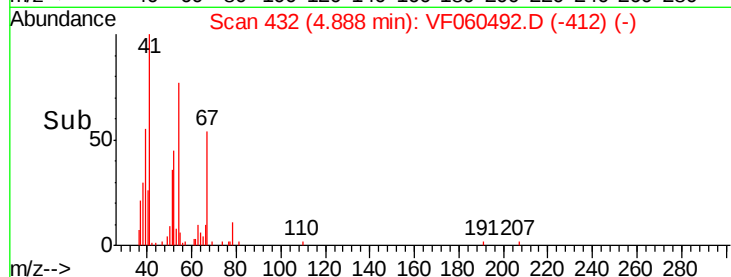
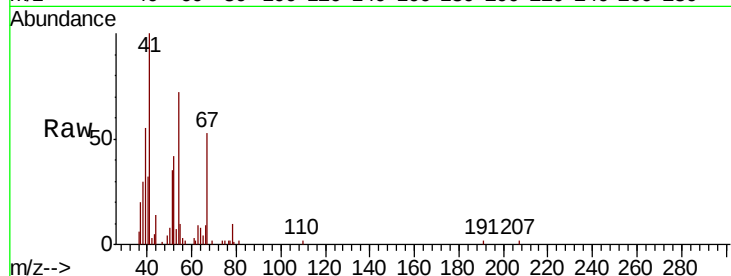
#41
Methacrylonitrile
Concen: 21.192 ug/l
RT: 4.89 min Scan# 432
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	55.3	53.1	79.7
67	52.7	39.4	59.0
52	41.8	35.0	52.6

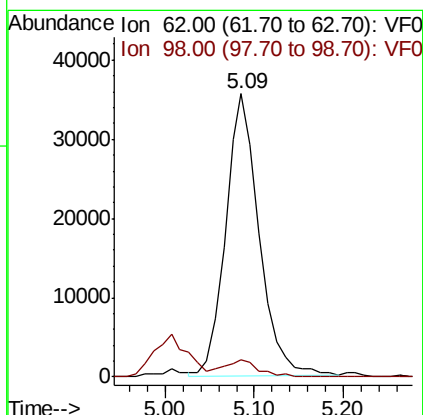
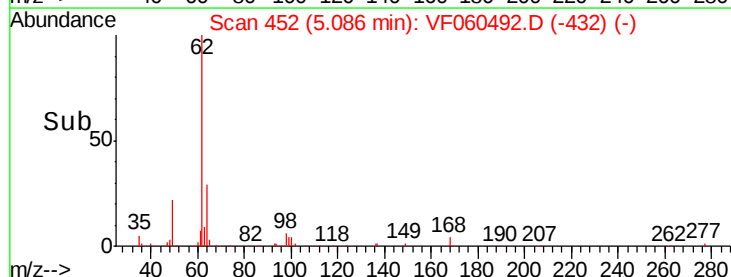
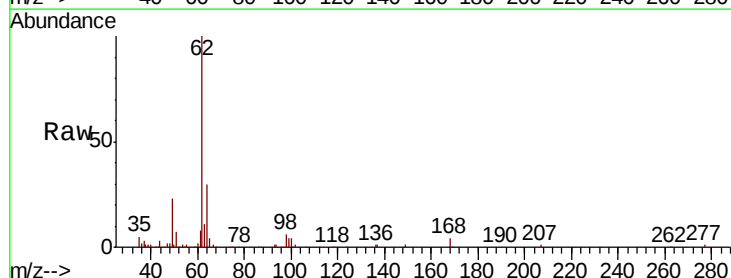
Manual Integrations
APPROVED

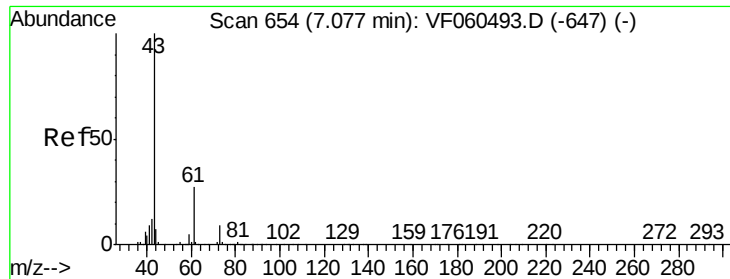
apatel
10/10/2018 12:33:47 PM



#42
1,2-Dichloroethane
Concen: 19.664 ug/l
RT: 5.09 min Scan# 452
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.3	0.0	12.8





#43

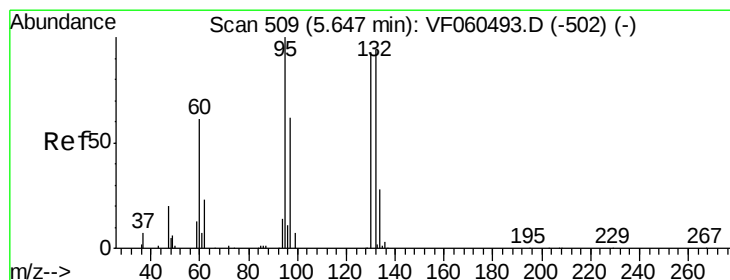
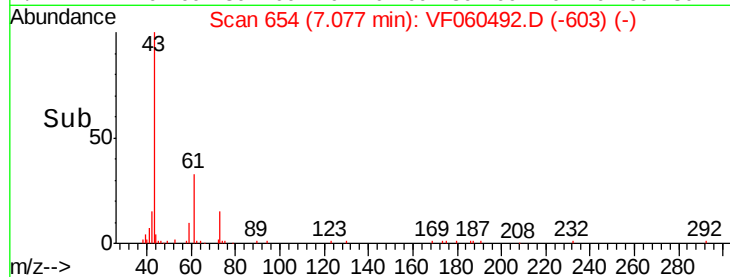
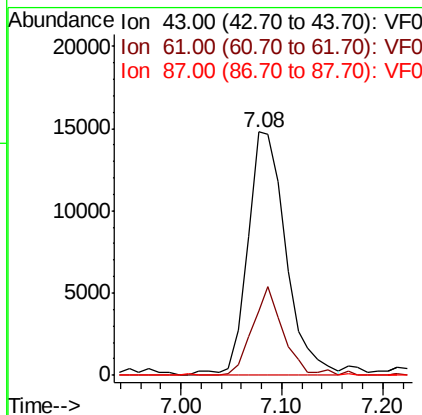
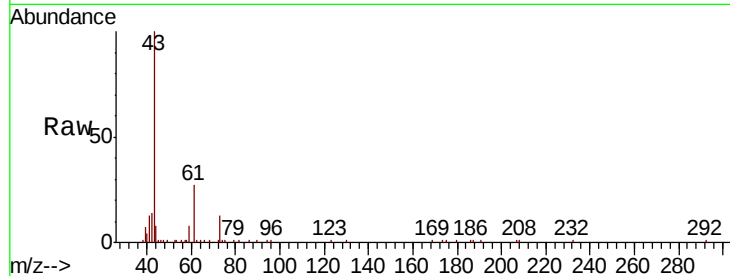
Isopropyl Acetate
 Concen: 16.976 ug/l
 RT: 7.08 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.5	21.6	32.4
87	0.0	0.6	0.8#

Manual Integrations
 APPROVED

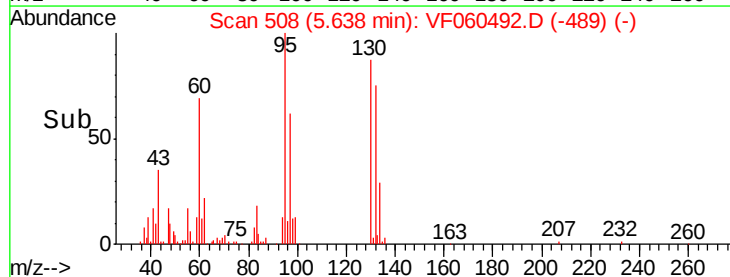
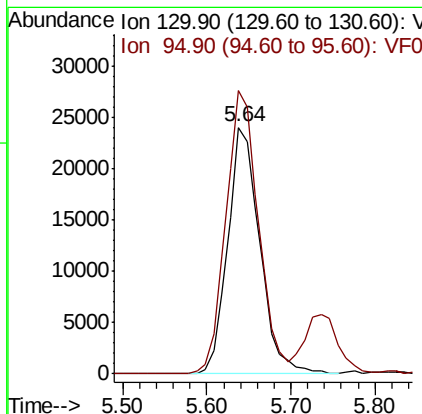
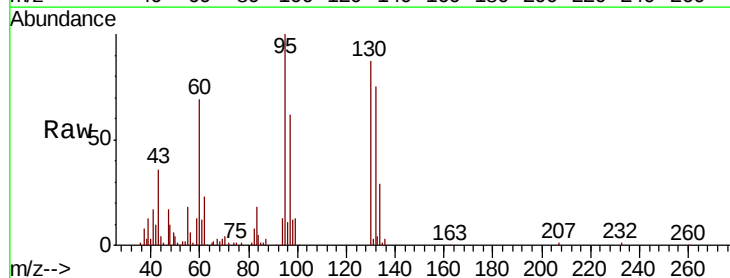
apatel
 10/10/2018 12:33:47 PM

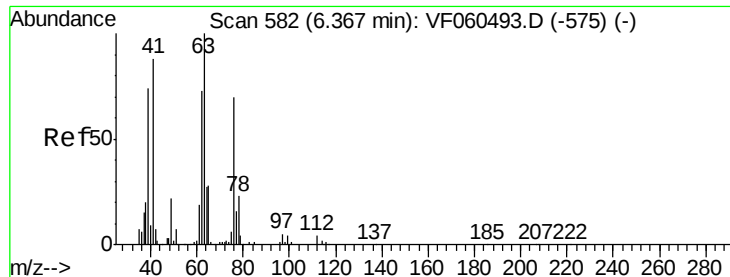


#44

Trichloroethene
 Concen: 19.836 ug/l
 RT: 5.64 min Scan# 508
 Delta R.T. -0.01 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
130	100		
95	114.8	0.0	216.0





#45

1,2-Dichloropropane

Concen: 19.466 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 50883

Ion Ratio Lower Upper

63 100

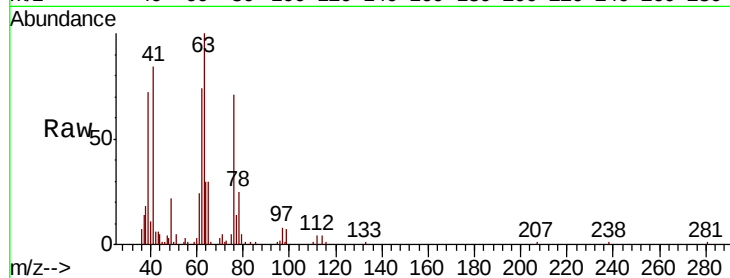
65 30.5 22.2 33.2

Manual Integrations

APPROVED

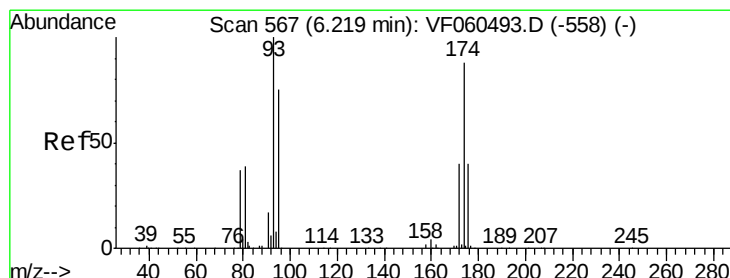
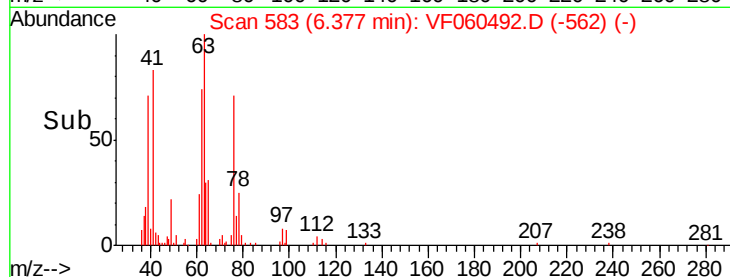
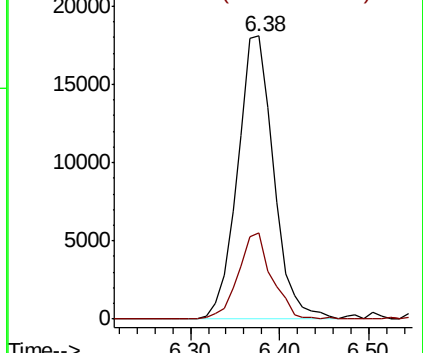
apatel

10/10/2018 12:33:47 PM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 19.145 ug/l

RT: 6.22 min Scan# 567

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

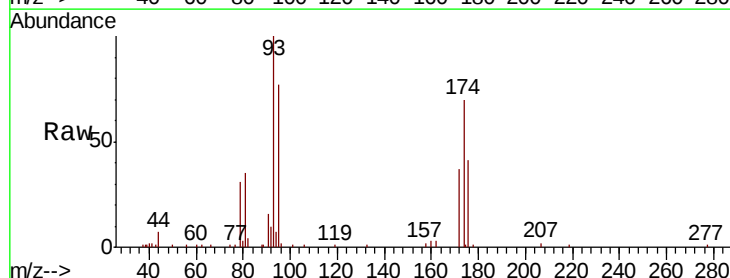
Tgt Ion: 93 Resp: 40317

Ion Ratio Lower Upper

93 100

95 76.6 60.0 90.0

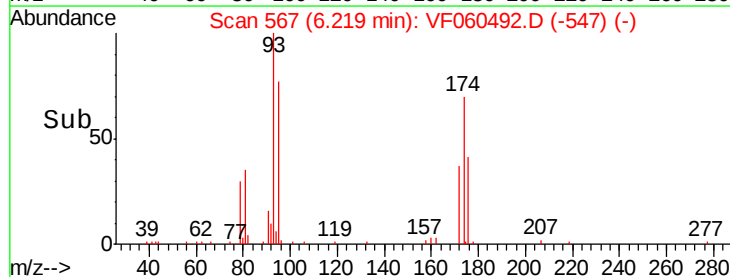
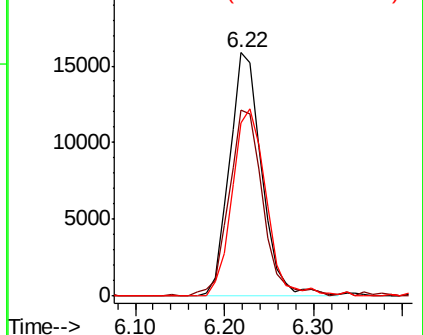
174 71.2 71.0 106.6

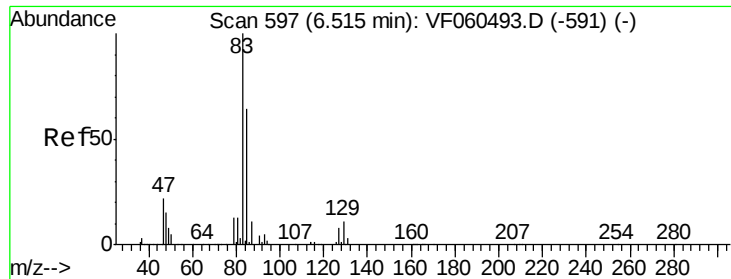


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 19.650 ug/l

RT: 6.51 min Scan# 597

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

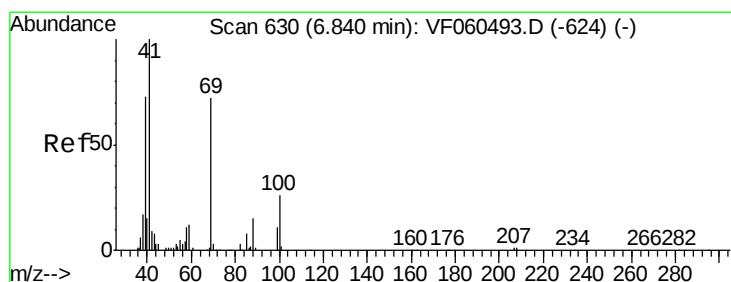
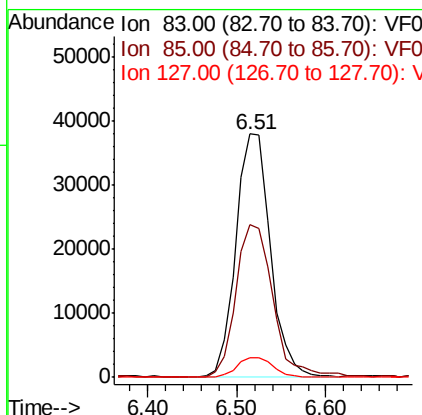
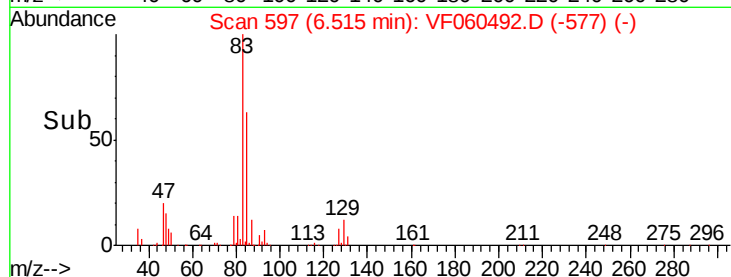
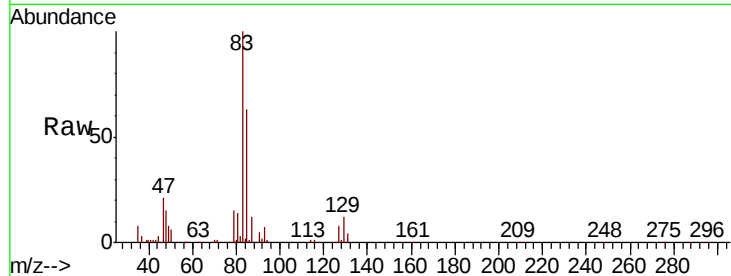
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	103095
Ion Ratio	Lower	Upper	
83	100		
85	62.8	51.2	76.8
127	8.2	6.5	9.7

Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM



#48

Methyl methacrylate

Concen: 17.726 ug/l

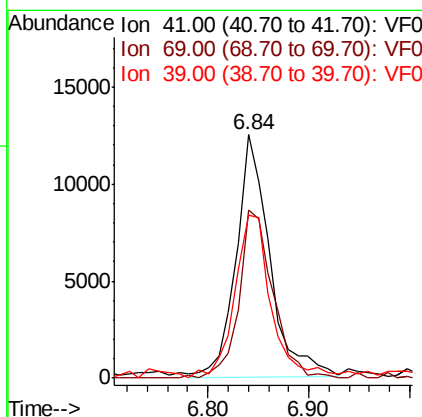
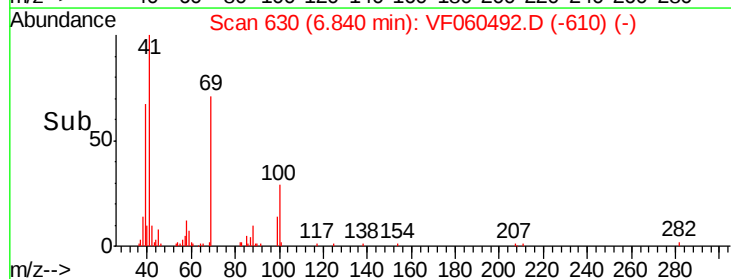
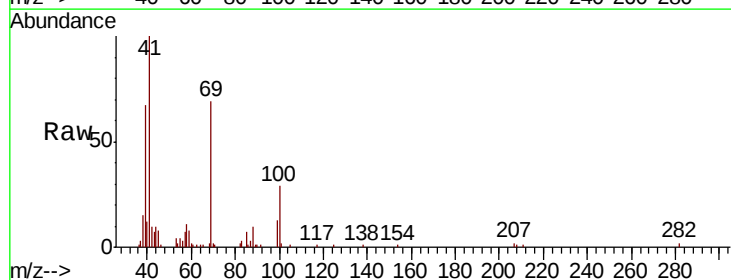
RT: 6.84 min Scan# 630

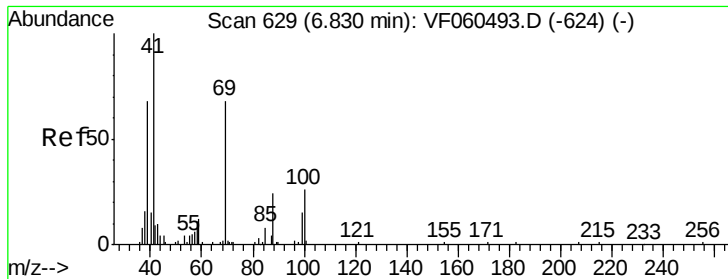
Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Tgt Ion:	41	Resp:	29095
Ion Ratio	Lower	Upper	
41	100		
69	69.1	57.8	86.8
39	66.9	59.1	88.7





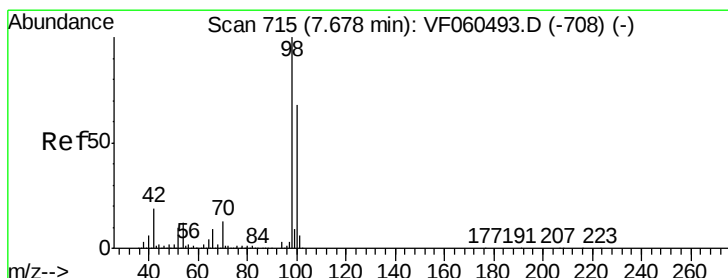
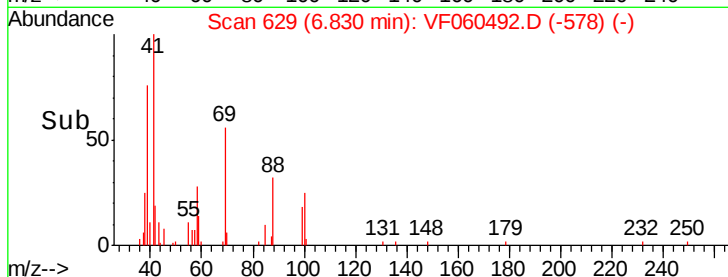
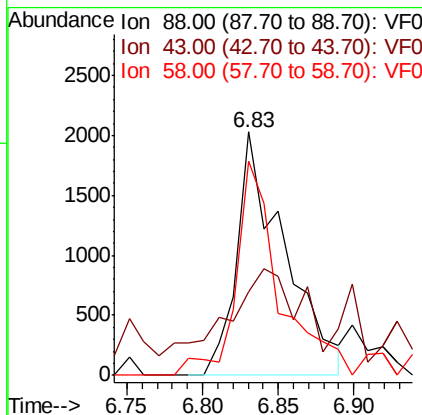
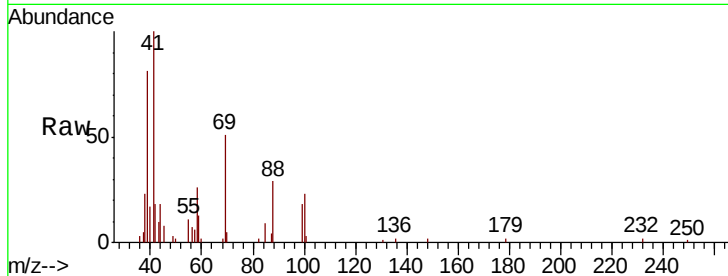
#49
1,4-Dioxane
Concen: 314.817 ug/l
RT: 6.83 min Scan# 629
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	88	Resp	4467
Ion	Ratio	Lower	Upper
88	100		
43	34.4	40.2	60.2#
58	88.1	36.3	54.5#

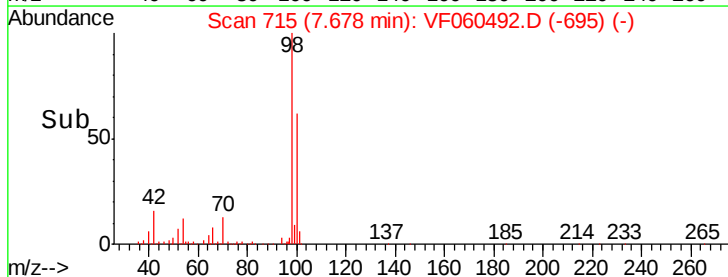
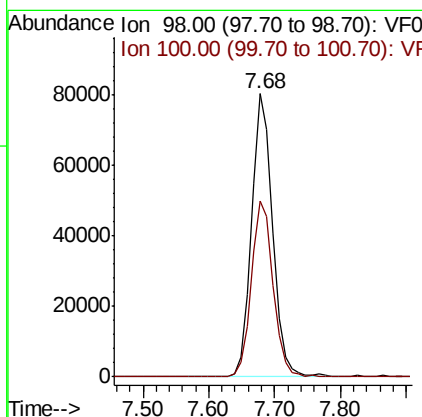
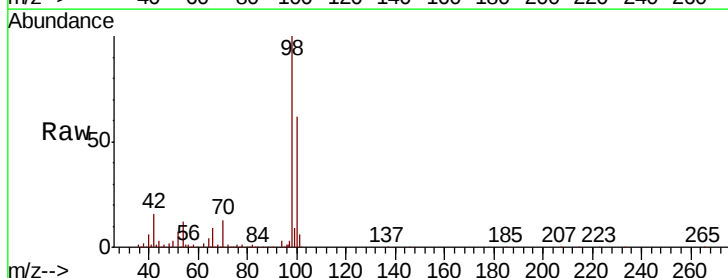
Manual Integrations
APPROVED

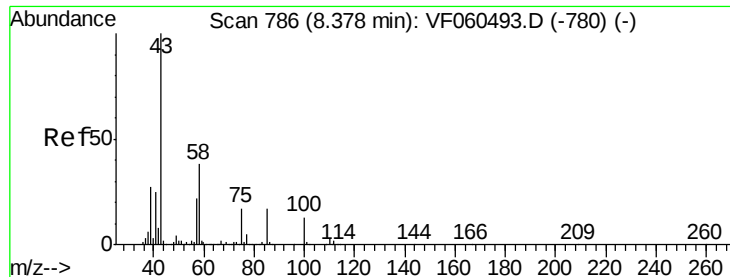
apatel
10/10/2018 12:33:47 PM



#50
Toluene-d8
Concen: 19.499 ug/l
RT: 7.68 min Scan# 715
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	98	Resp	180192
Ion	Ratio	Lower	Upper
98	100		
100	62.0	54.4	81.6





#51

4-Methyl-2-Pentanone

Concen: 93.865 ug/l

RT: 8.38 min Scan# 786

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 152970

Ion Ratio Lower Upper

43 100

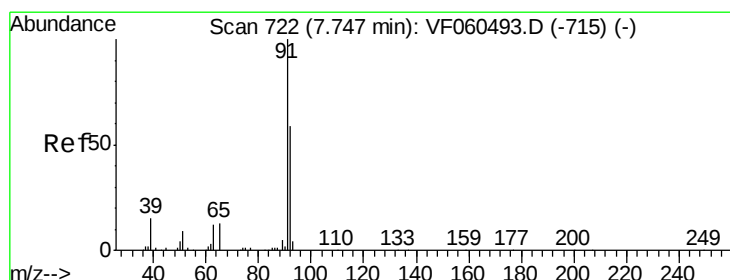
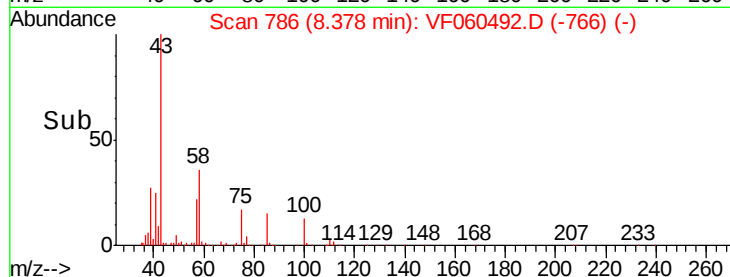
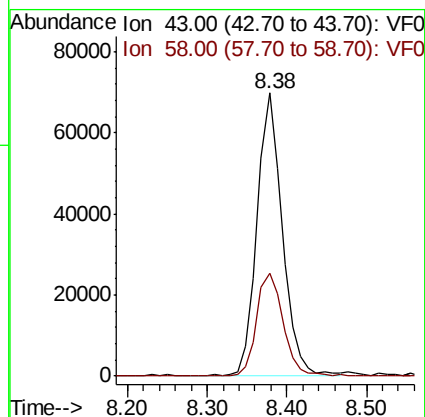
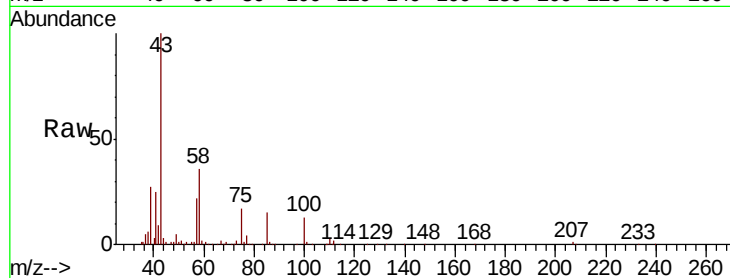
58 36.4 30.4 45.6

Manual Integrations

APPROVED

apatel

10/10/2018 12:33:47 PM



#52

Toluene

Concen: 19.072 ug/l

RT: 7.76 min Scan# 723

Delta R.T. 0.01 min

Lab File: VF060492.D

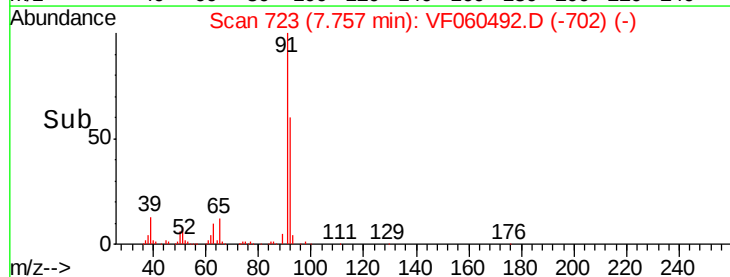
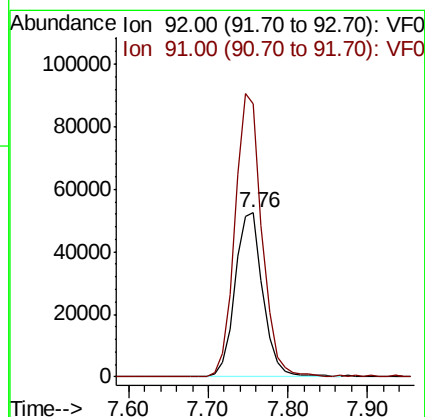
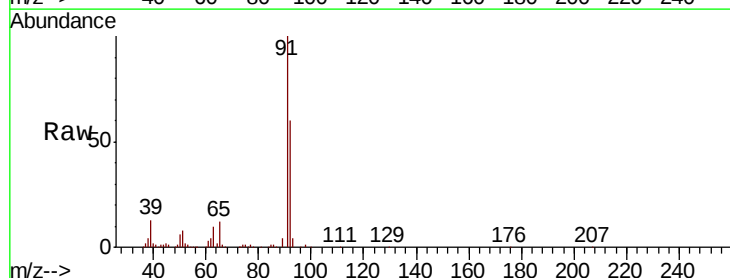
Acq: 9 Oct 2018 15:43

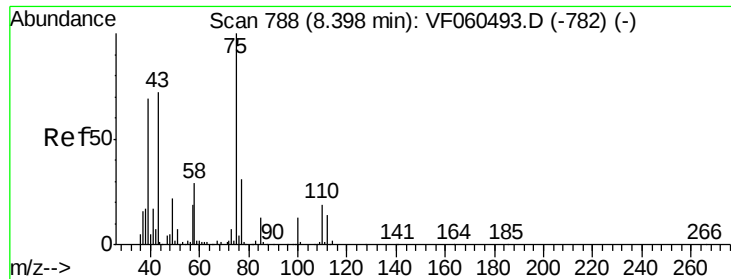
Tgt Ion: 92 Resp: 127619

Ion Ratio Lower Upper

92 100

91 166.6 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 19.434 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 79832

Ion Ratio Lower Upper

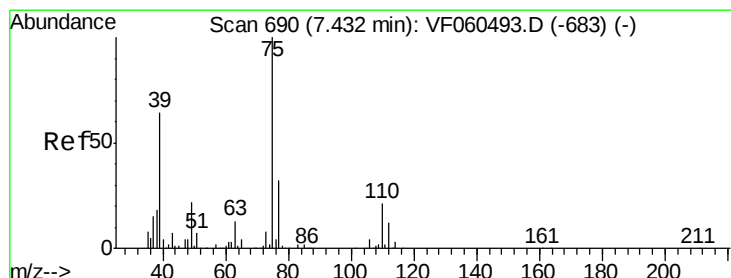
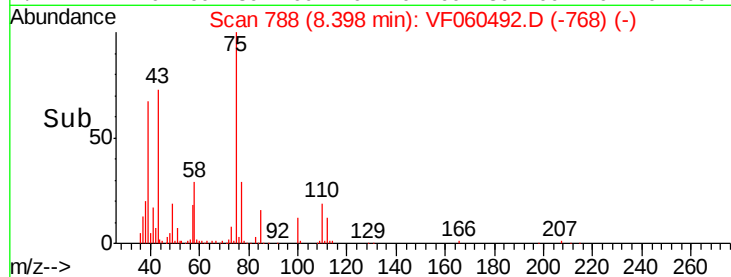
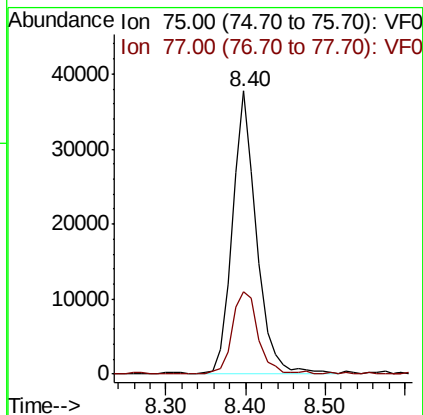
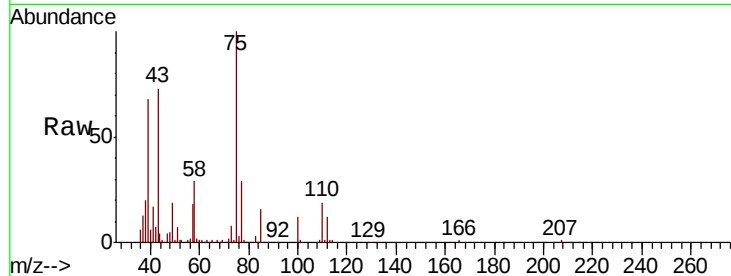
75 100

77 29.0 25.2 37.8

Manual Integrations
APPROVED

apatel

10/10/2018 12:33:47 PM



#54

cis-1,3-Dichloropropene

Concen: 18.728 ug/l

RT: 7.43 min Scan# 690

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

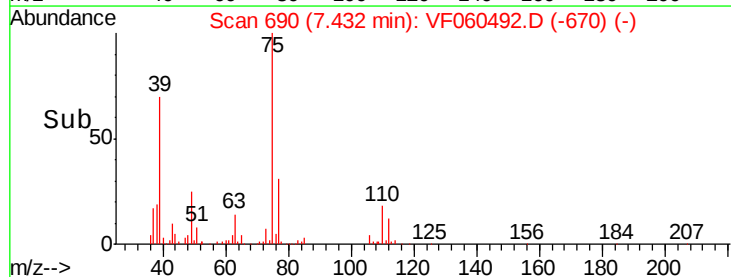
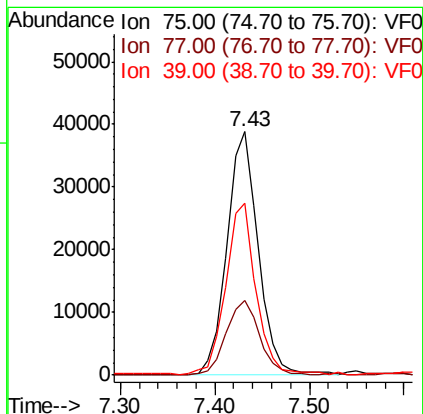
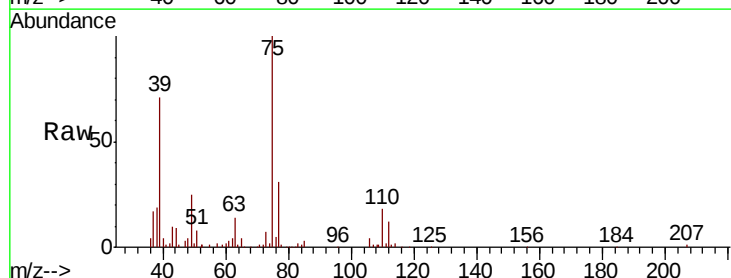
Tgt Ion: 75 Resp: 89053

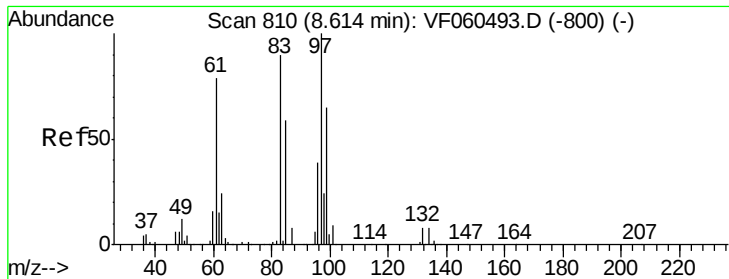
Ion Ratio Lower Upper

75 100

77 30.8 26.0 39.0

39 70.7 51.2 76.8





#55

1,1,2-Trichloroethane

Concen: 17.972 ug/l

RT: 8.61 min Scan# 810

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

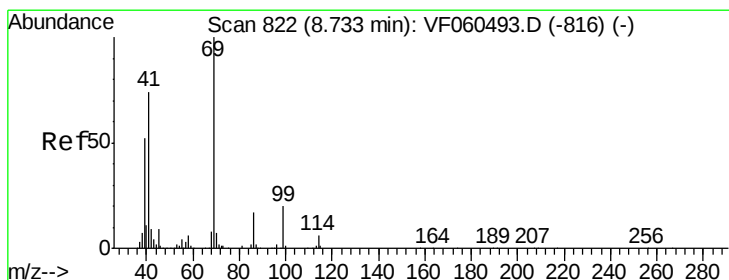
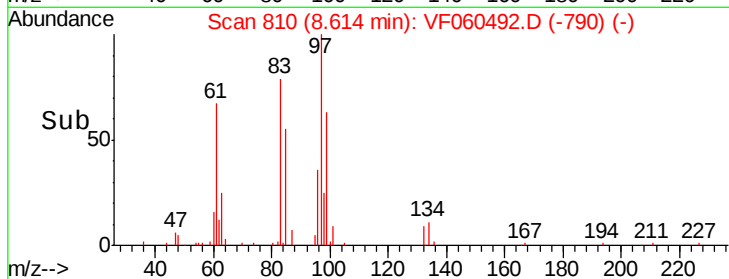
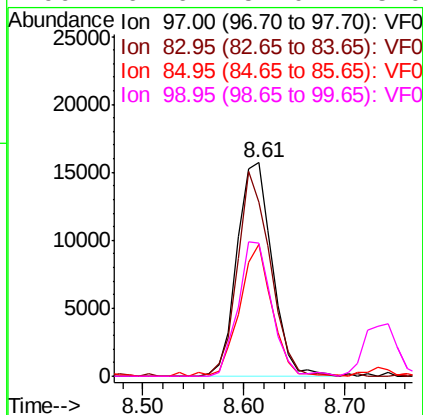
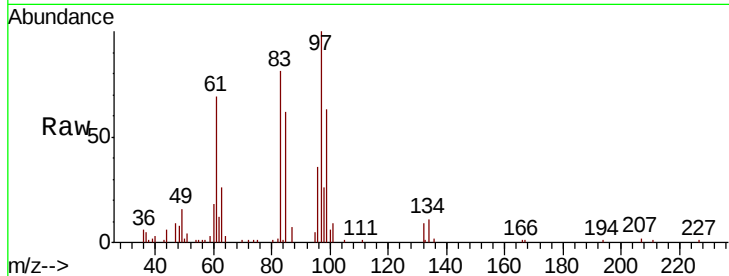
ClientSampleId :

VSTDIC020

Tot Ion:	97	Resp:	38094
Ion	Ratio	Lower	Upper
97	100		
83	81.4	71.9	107.9
85	61.6	47.8	71.8
99	62.6	52.0	78.0

Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM



#56

Ethyl methacrylate

Concen: 17.676 ug/l

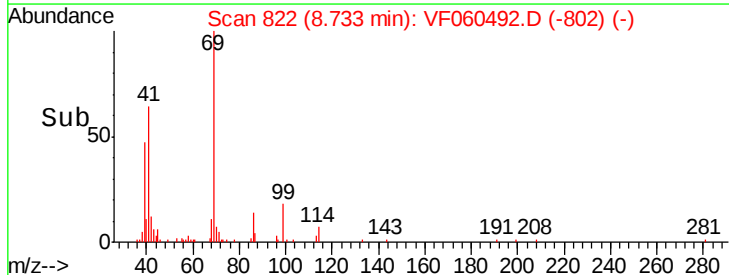
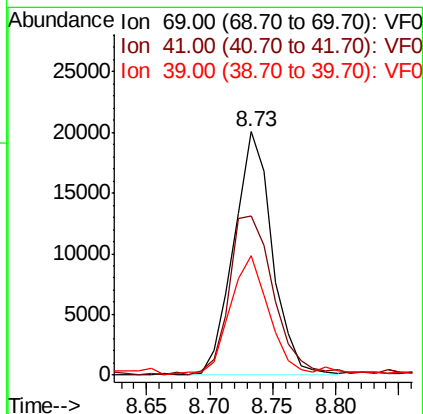
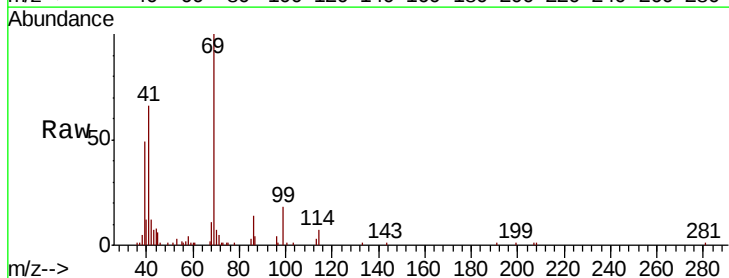
RT: 8.73 min Scan# 822

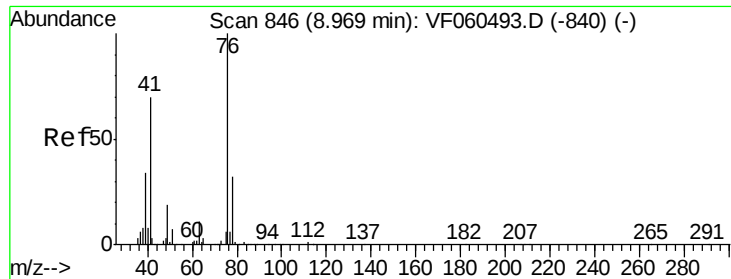
Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Tgt Ion:	69	Resp:	42415
Ion	Ratio	Lower	Upper
69	100		
41	65.6	59.3	88.9
39	49.2	41.8	62.6





#57

1,3-Dichloropropane

Concen: 18.741 ug/l

RT: 8.97 min Scan# 846

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 67013

Ion Ratio Lower Upper

76 100

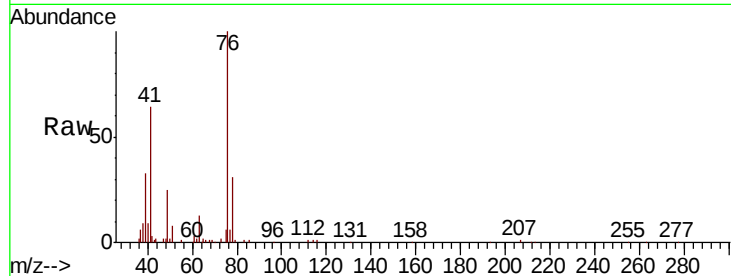
78 30.8 25.3 37.9

Manual Integrations

APPROVED

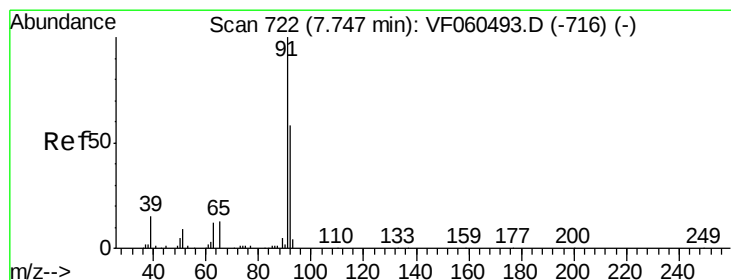
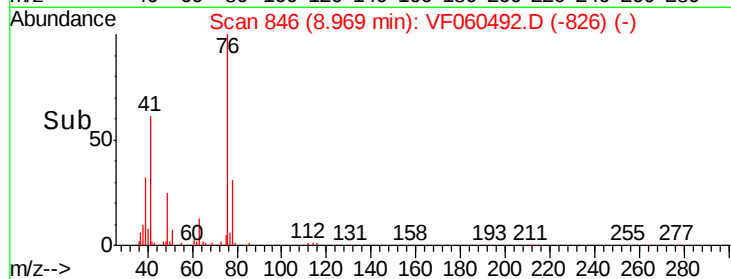
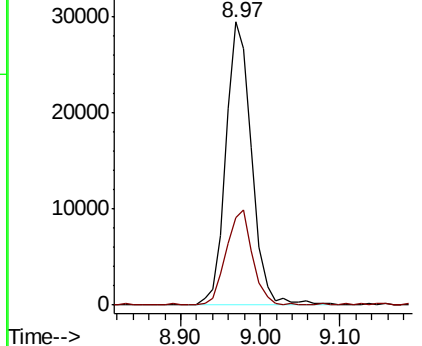
apatel

10/10/2018 12:33:47 PM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 92.224 ug/l

RT: 7.76 min Scan# 723

Delta R.T. 0.01 min

Lab File: VF060492.D

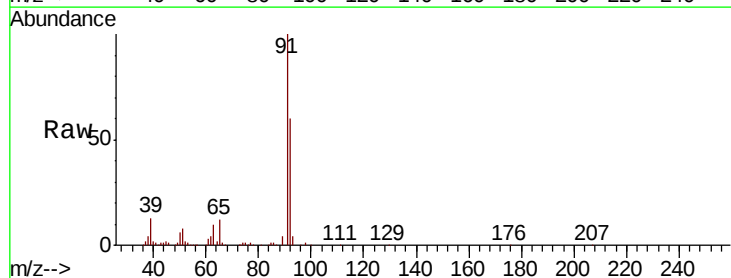
Acq: 9 Oct 2018 15:43

Tgt Ion: 63 Resp: 22758

Ion Ratio Lower Upper

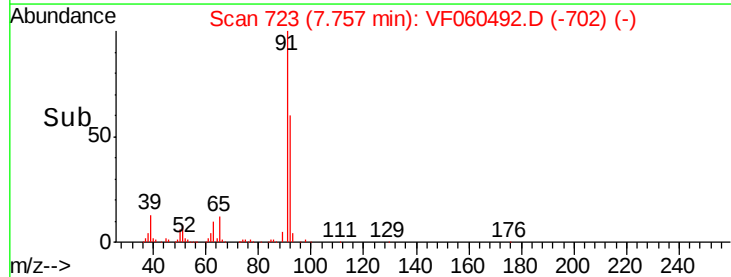
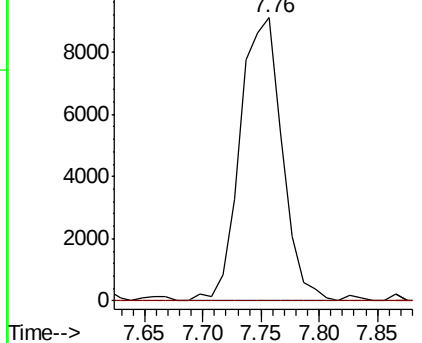
63 100

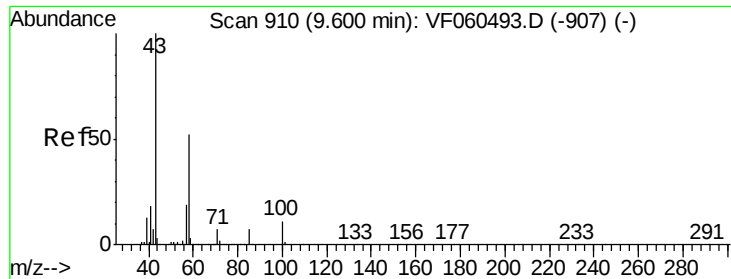
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





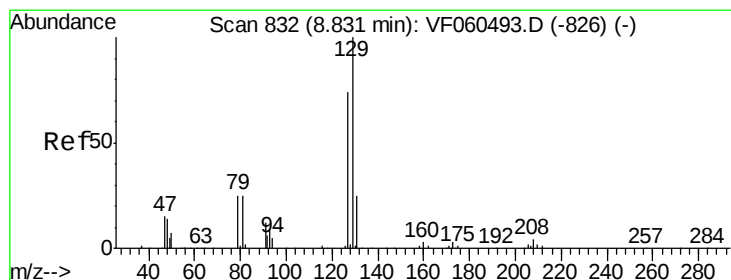
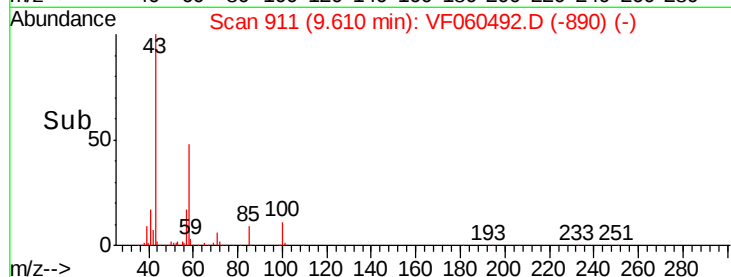
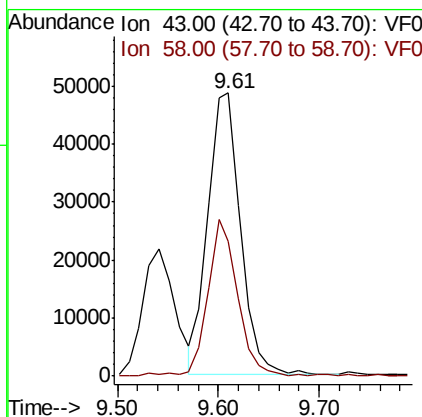
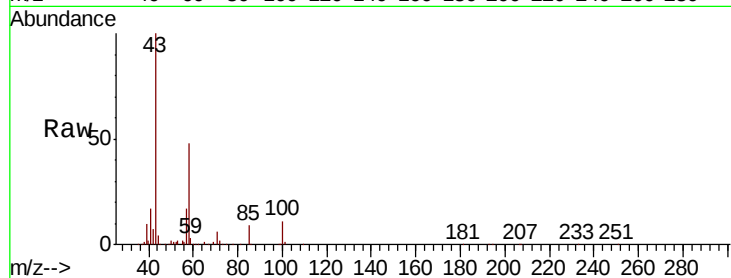
#59
2-Hexanone
Concen: 92.224 ug/l
RT: 9.61 min Scan# 911
Delta R.T. 0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 109996
Ion Ratio Lower Upper
43 100
58 47.7 24.2 72.6

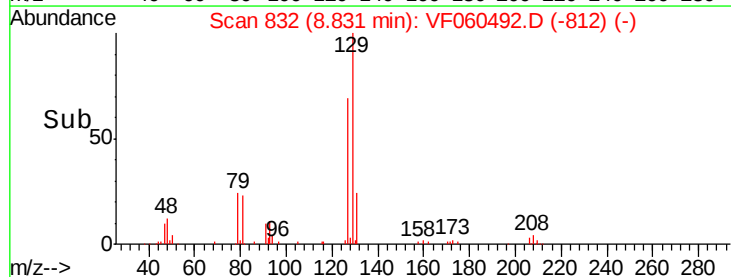
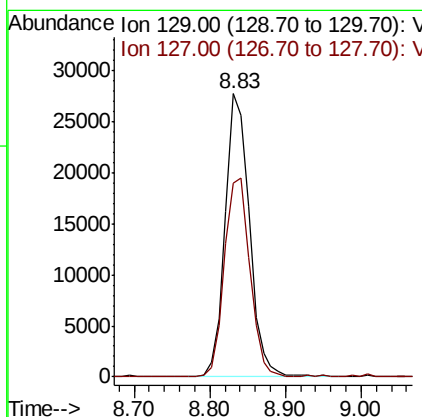
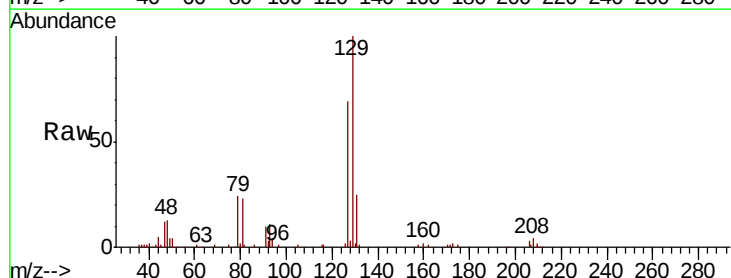
Manual Integrations
APPROVED

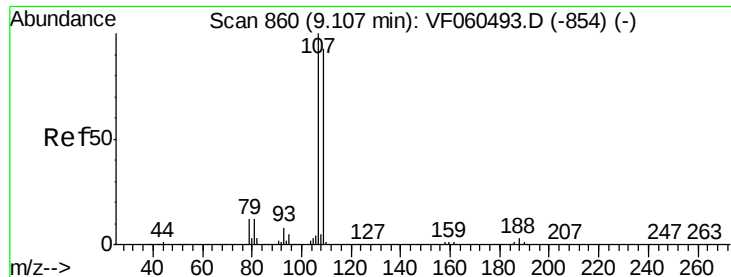
apatel
10/10/2018 12:33:47 PM



#60
Dibromochloromethane
Concen: 19.366 ug/l
RT: 8.83 min Scan# 832
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion: 129 Resp: 61611
Ion Ratio Lower Upper
129 100
127 71.5 37.0 110.9





#61

1,2-Dibromoethane

Concen: 18.738 ug/l

RT: 9.11 min Scan# 860

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 43453

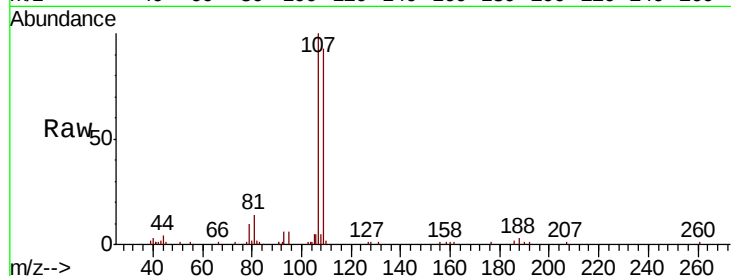
Ion Ratio Lower Upper

107 100

109 92.9 74.6 112.0

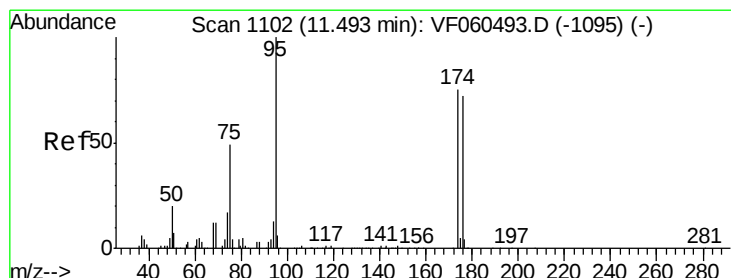
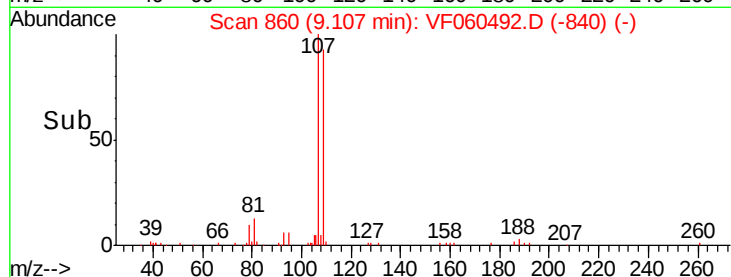
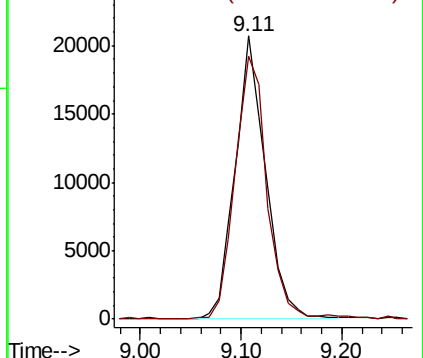
Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 18.781 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

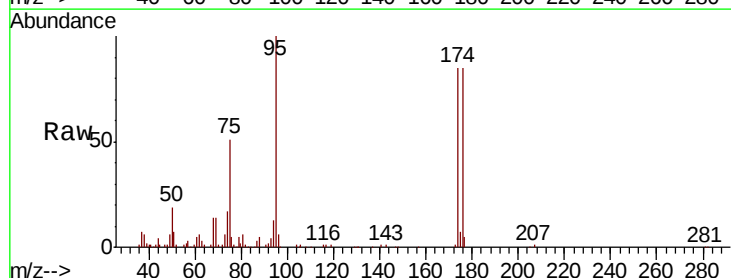
Tgt Ion: 95 Resp: 79454

Ion Ratio Lower Upper

95 100

174 85.0 0.0 150.4

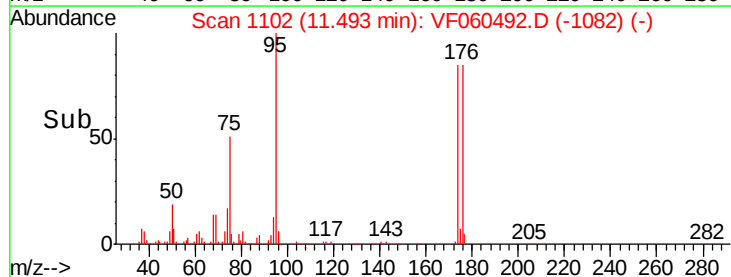
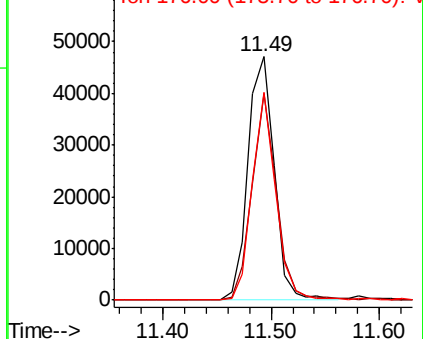
176 85.3 0.0 144.6

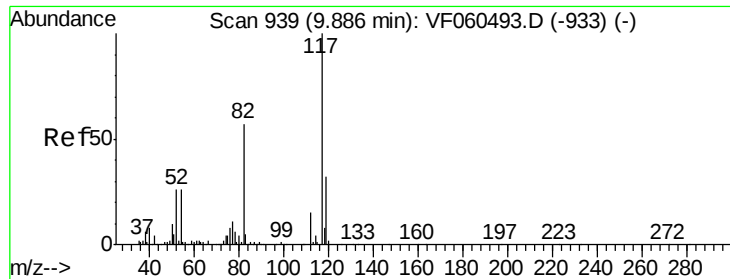


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

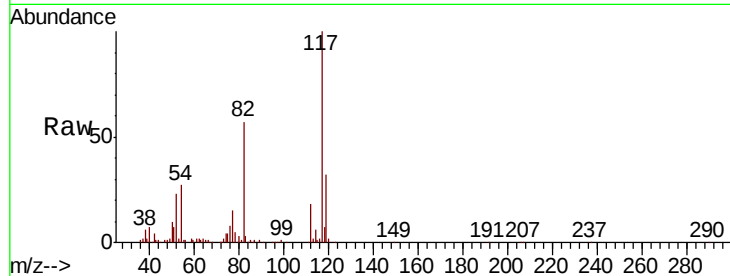
ClientSampleId :

VSTDIC020

Tot Ion:	117	Resp:	352786
Ion Ratio	Lower	Upper	
117	100		
82	57.4	45.6	68.4
119	32.2	25.3	37.9

Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM

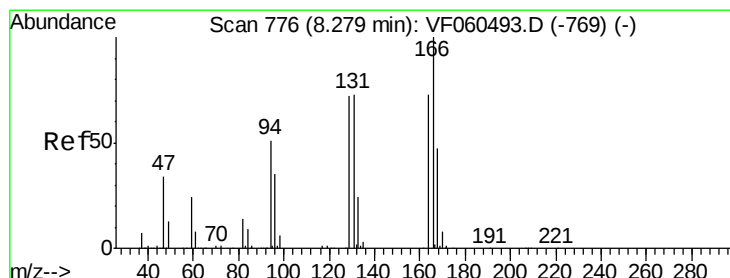
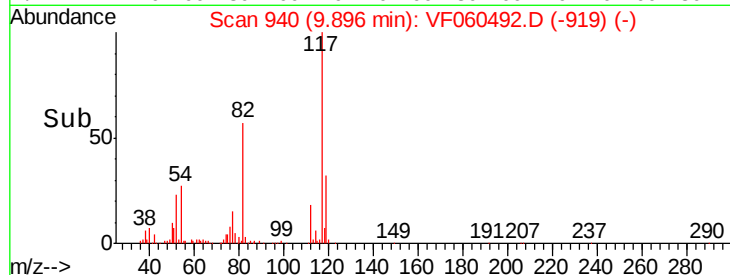
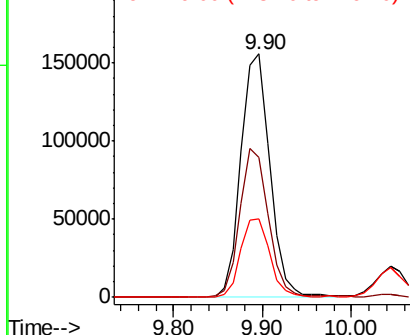


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 20.593 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Tgt Ion:	164	Resp:	58331
Ion Ratio	Lower	Upper	
164	100		
166	139.3	109.4	164.0
129	107.1	78.9	118.3
131	98.8	79.5	119.3

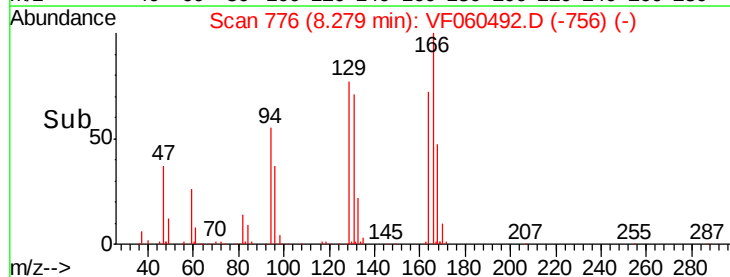
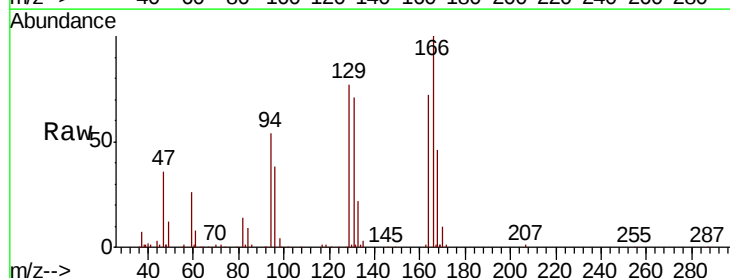
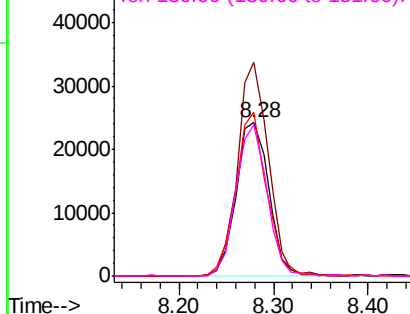
Abundance

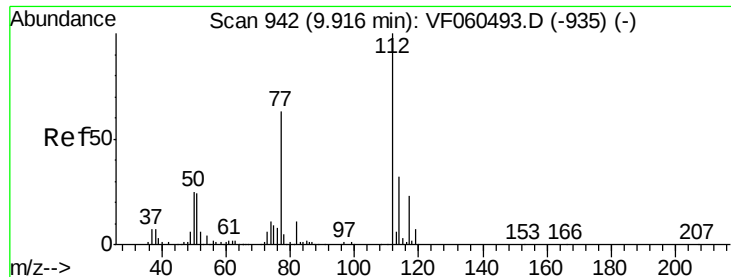
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 19.965 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 144326

Ion Ratio Lower Upper

112 100

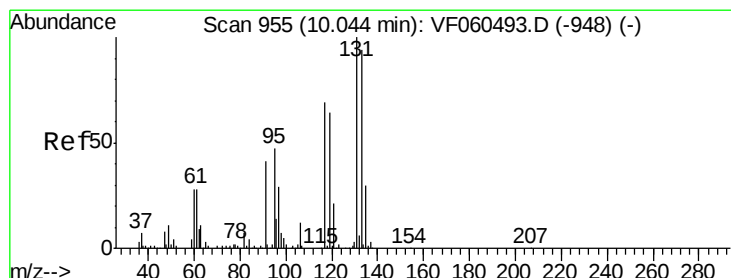
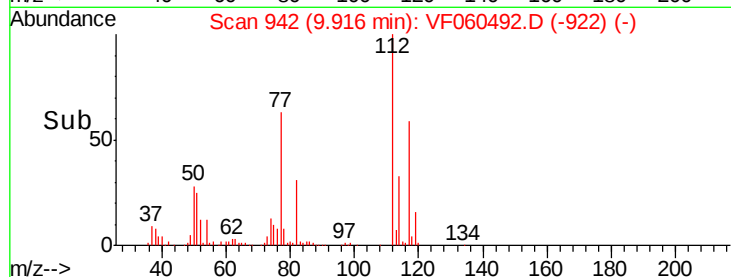
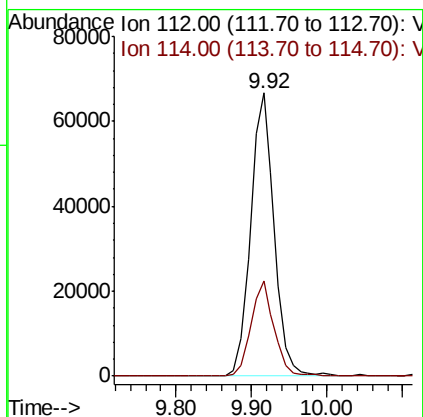
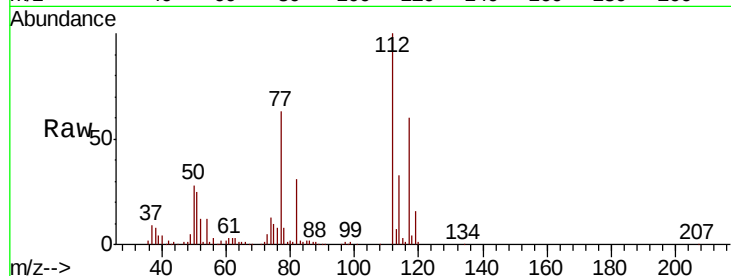
114 33.5 25.9 38.9

Manual Integrations

APPROVED

apatel

10/10/2018 12:33:47 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 20.947 ug/l

RT: 10.04 min Scan# 955

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

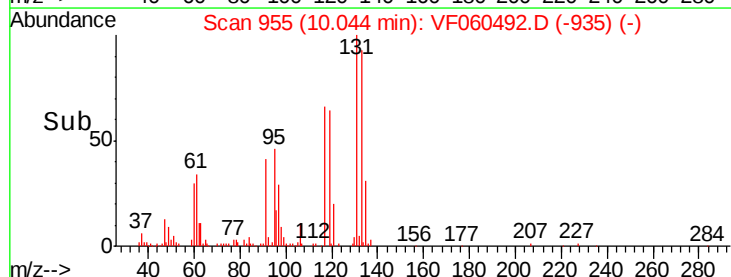
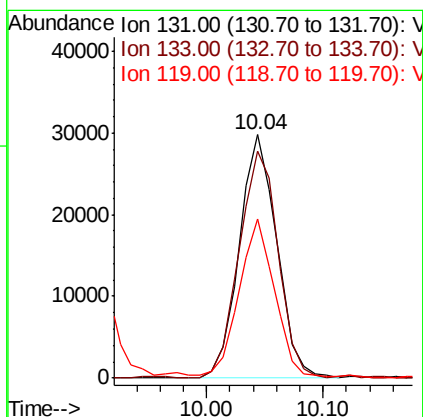
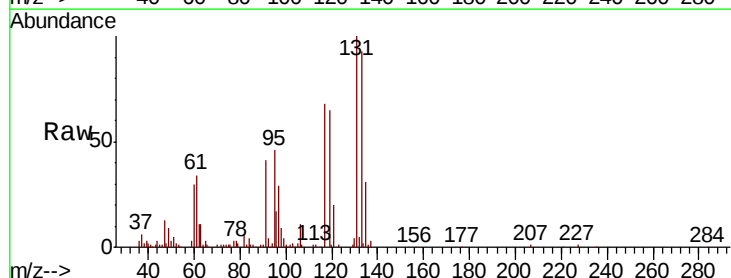
Tgt Ion:131 Resp: 66282

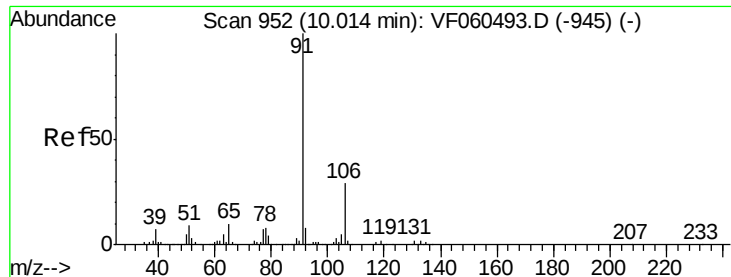
Ion Ratio Lower Upper

131 100

133 93.3 47.1 141.4

119 65.2 32.0 96.2





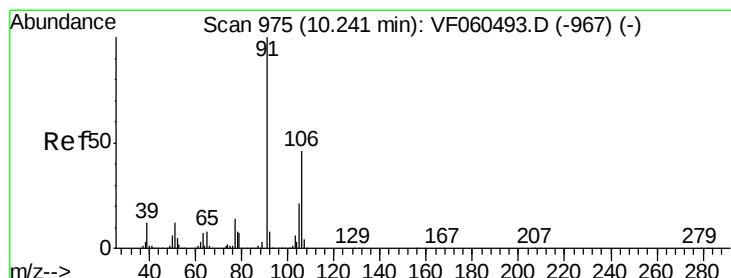
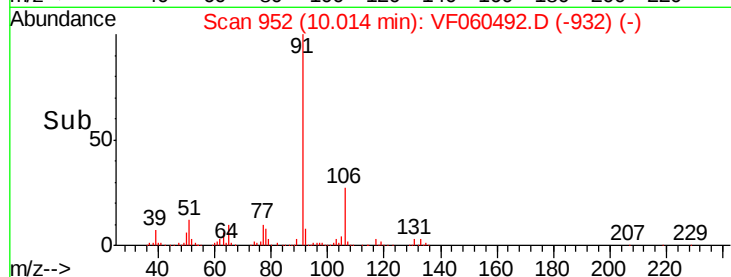
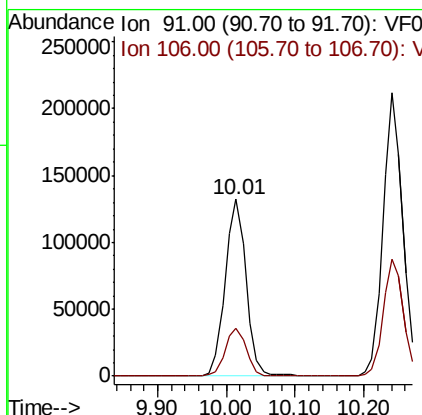
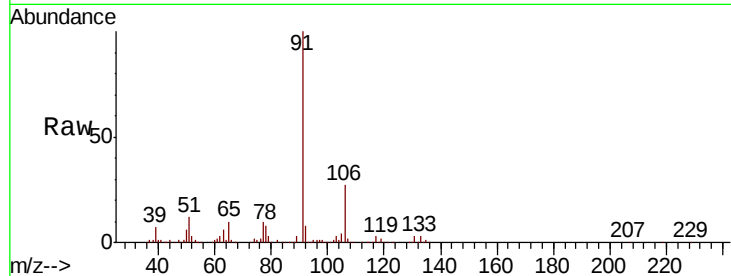
#67
Ethyl Benzene
Concen: 20.286 ug/l
RT: 10.01 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 279472
Ion Ratio Lower Upper
91 100
106 26.7 23.3 34.9

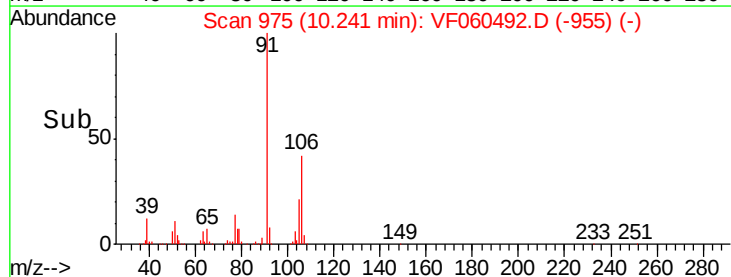
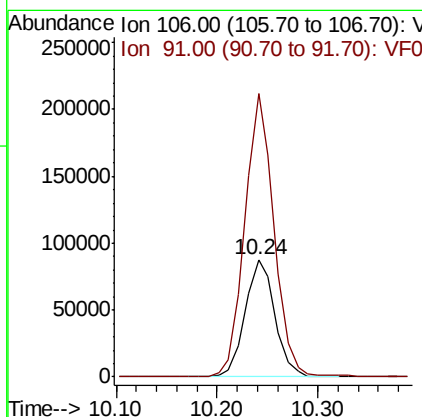
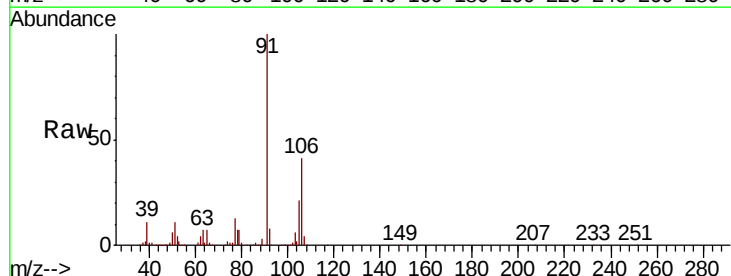
Manual Integrations
APPROVED

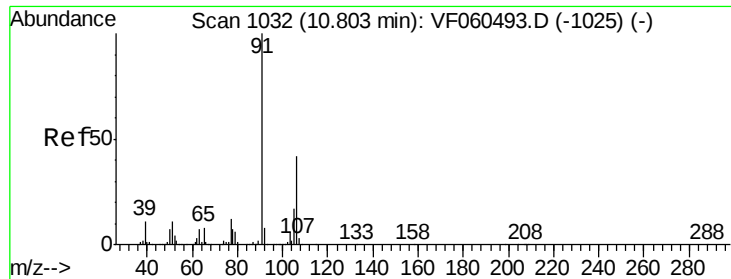
apatel
10/10/2018 12:33:47 PM



#68
m/p-Xylenes
Concen: 38.379 ug/l
RT: 10.24 min Scan# 975
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion: 106 Resp: 180871
Ion Ratio Lower Upper
106 100
91 241.9 174.6 262.0





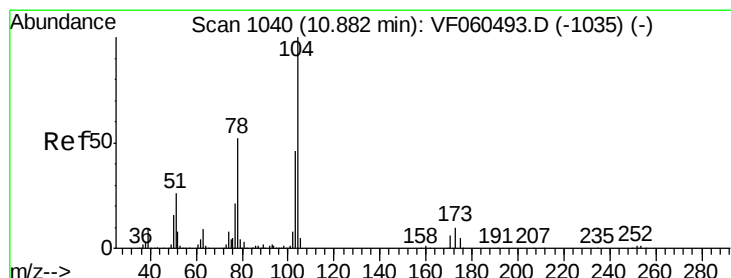
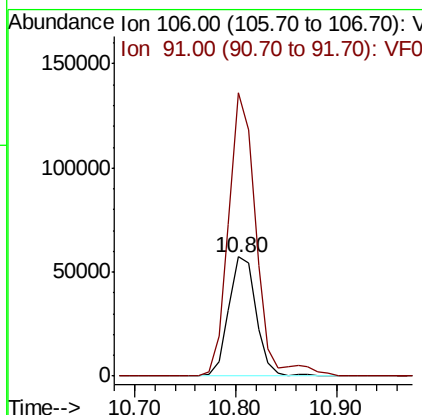
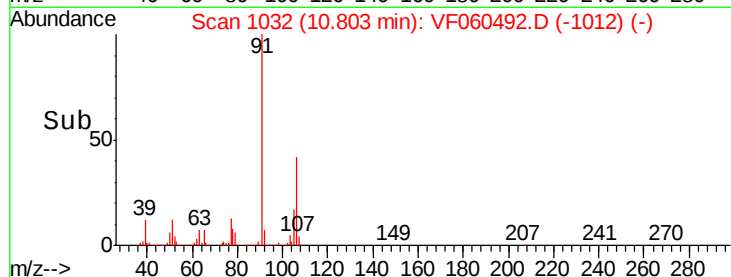
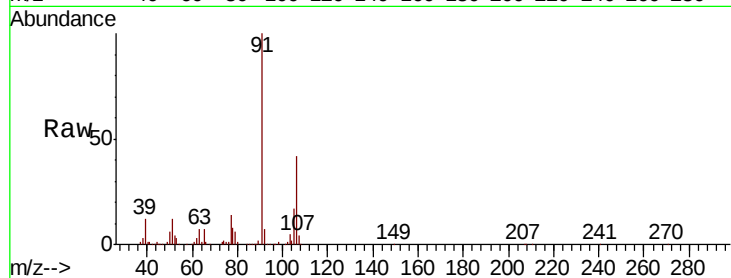
#69
o-Xylene
Concen: 21.173 ug/l
RT: 10.80 min Scan# 1032
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
106	100		
91	237.0	118.8	356.3

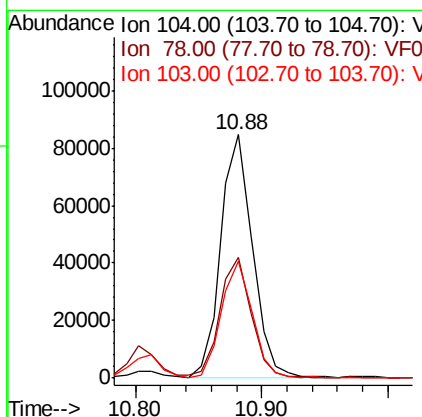
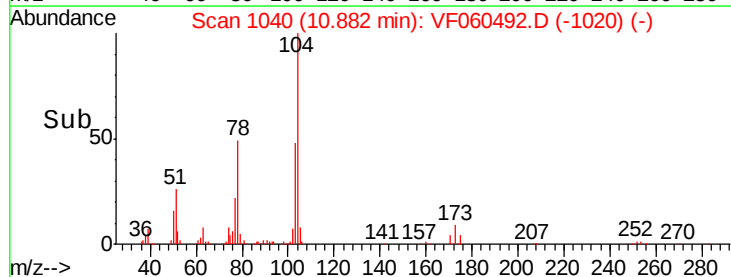
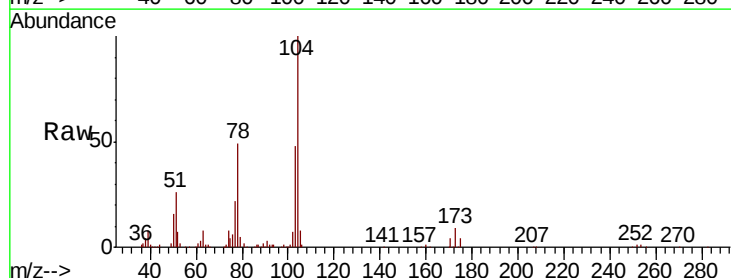
Manual Integrations
APPROVED

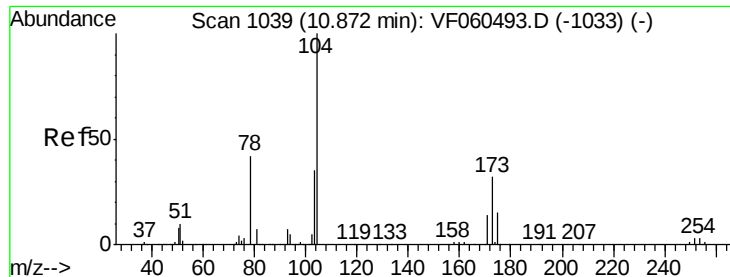
apatel
10/10/2018 12:33:47 PM



#70
Styrene
Concen: 20.197 ug/l
RT: 10.88 min Scan# 1040
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.4	42.7	64.1
103	48.2	37.6	56.4





#71

Bromoform

Concen: 19.235 ug/l

RT: 10.86 min Scan# 1038

Delta R.T. -0.01 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

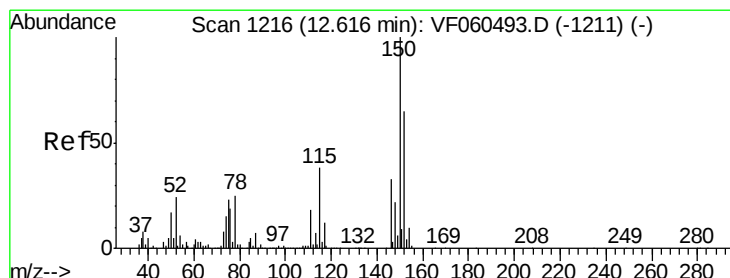
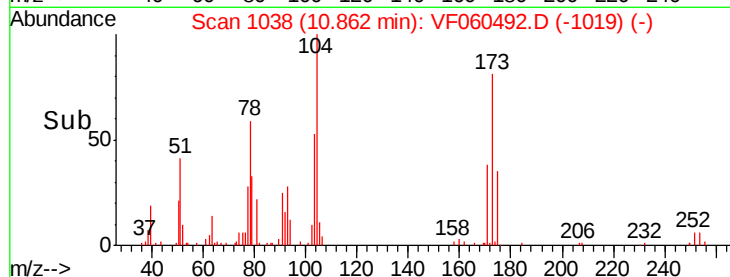
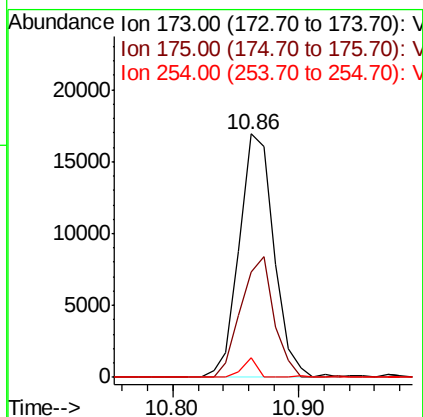
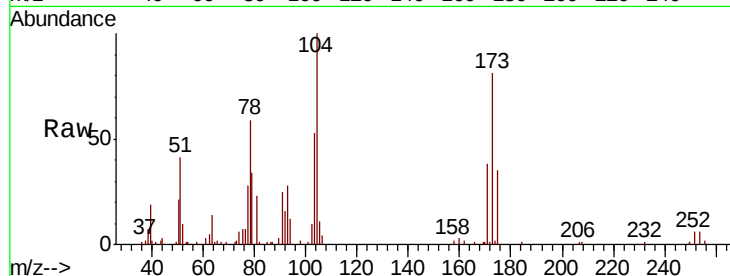
ClientSampleId :

VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
173	100			
175	43.2	23.2	69.6	
254	7.9	0.2	0.2	

Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

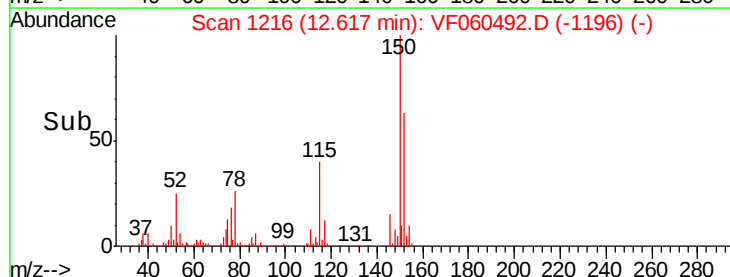
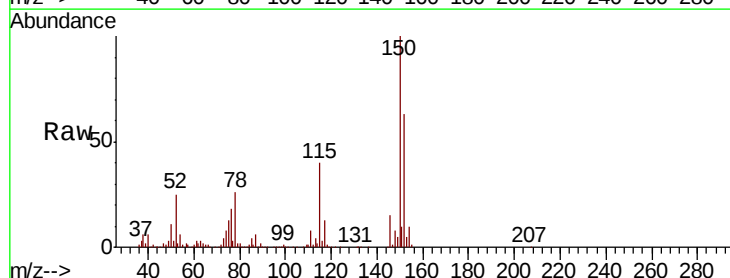
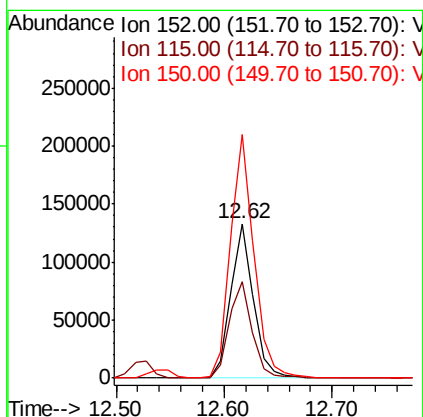
RT: 12.62 min Scan# 1216

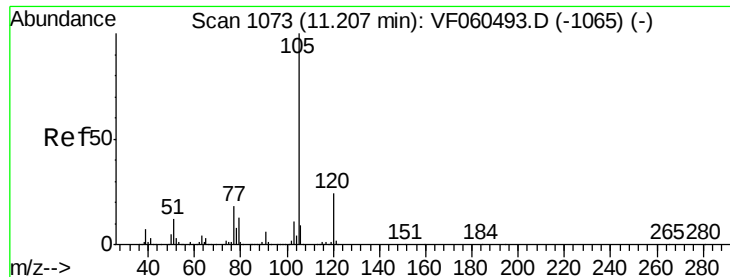
Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Tgt Ion	Ion	Ratio	Lower	Upper
152	100			
115	62.6	29.5	88.5	
150	157.6	0.0	310.0	





#73

Isopropylbenzene

Concen: 20.335 ug/l

RT: 11.21 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 314843

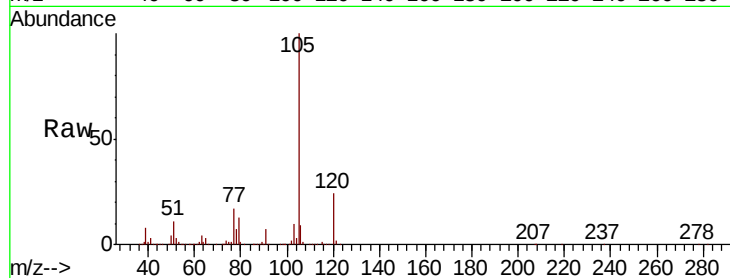
Ion Ratio Lower Upper

105 100

120 24.2 11.9 35.9

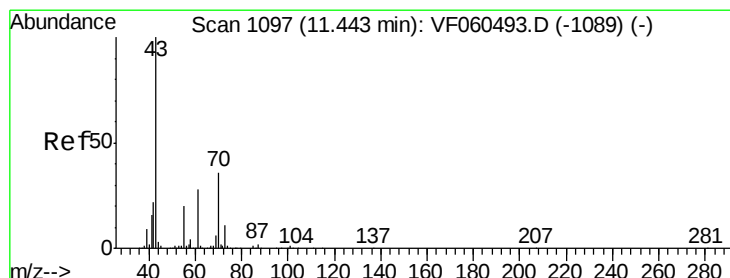
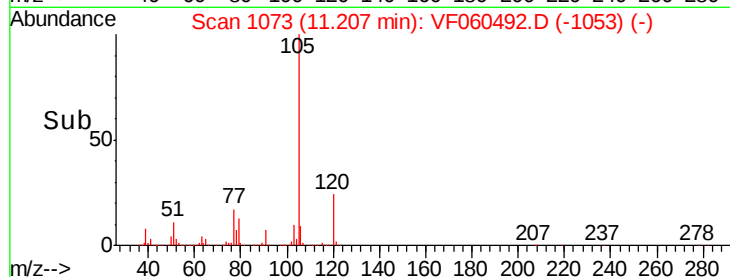
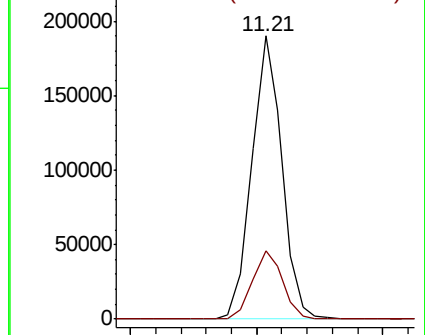
Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.370 ug/l

RT: 11.44 min Scan# 1097

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Tgt Ion: 43 Resp: 64557

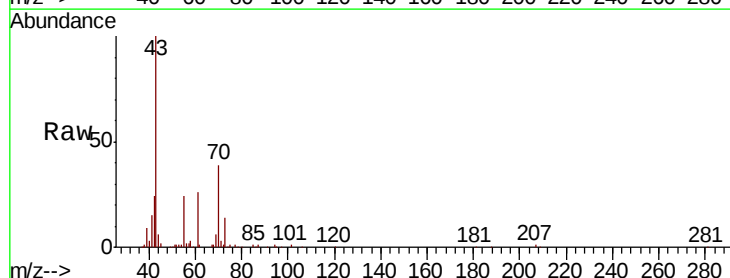
Ion Ratio Lower Upper

43 100

70 38.6 28.7 43.1

55 24.0 16.1 24.1

61 25.9 22.7 34.1

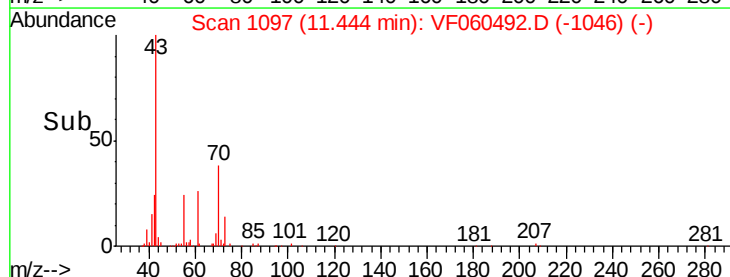
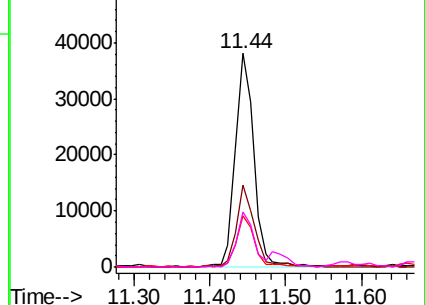


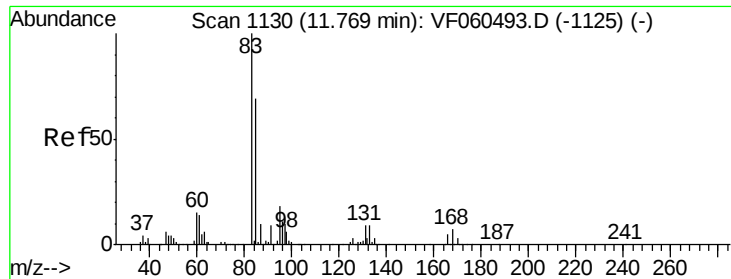
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





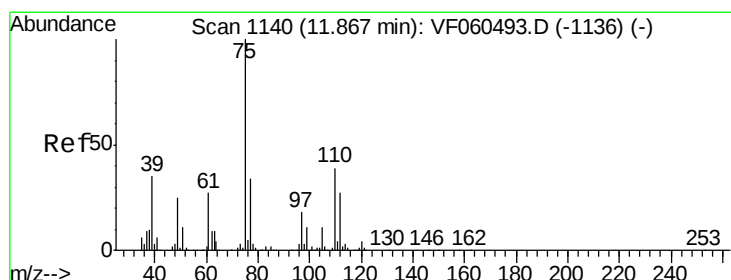
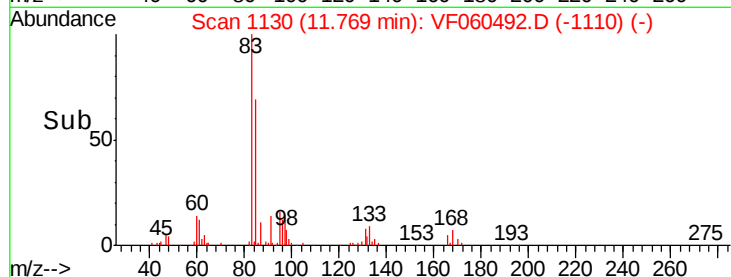
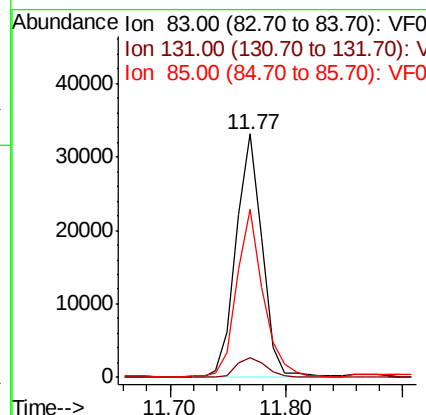
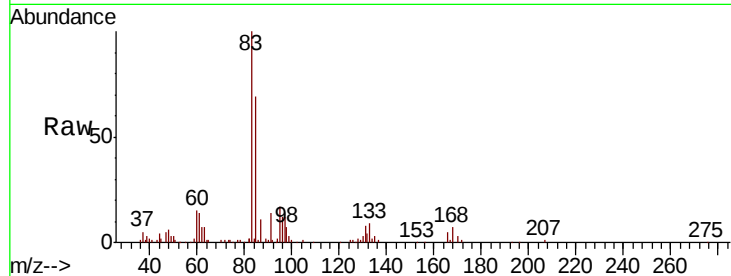
#75
 1,1,2,2-Tetrachloroethane
 Concen: 18.723 ug/l
 RT: 11.77 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	83	Resp	51943
Ion Ratio	100	Lower	Upper
83	100		
131	8.2	4.5	13.4
85	68.8	34.8	104.4

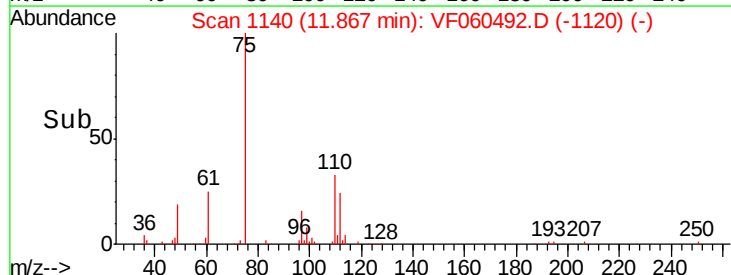
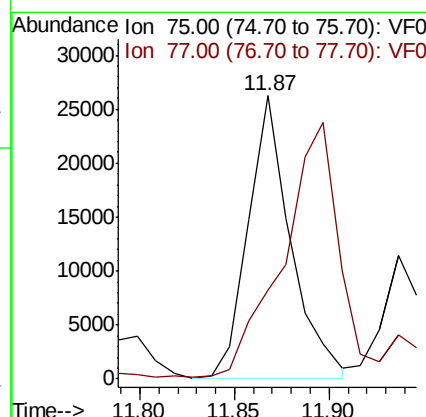
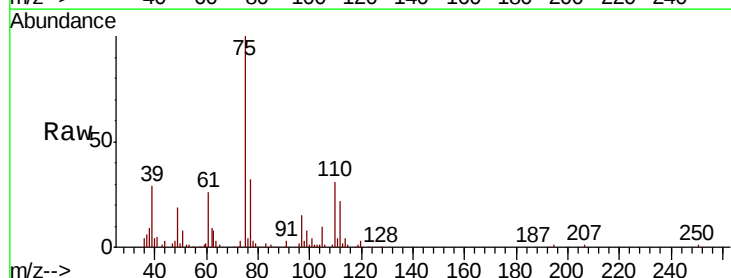
Manual Integrations
 APPROVED

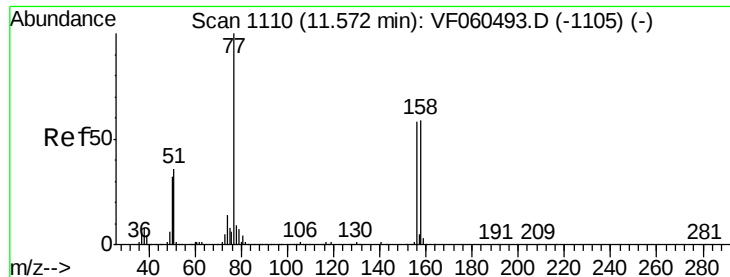
apatel
 10/10/2018 12:33:47 PM



#76
 1,2,3-Trichloropropane
 Concen: 19.951 ug/l
 RT: 11.87 min Scan# 1140
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion	75	Resp	41136
Ion Ratio	100	Lower	Upper
75	100		
77	31.6	17.4	52.2





#77

Bromobenzene

Concen: 20.147 ug/l

RT: 11.57 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 69606

Ion Ratio Lower Upper

156 100

77 168.8 86.3 258.8

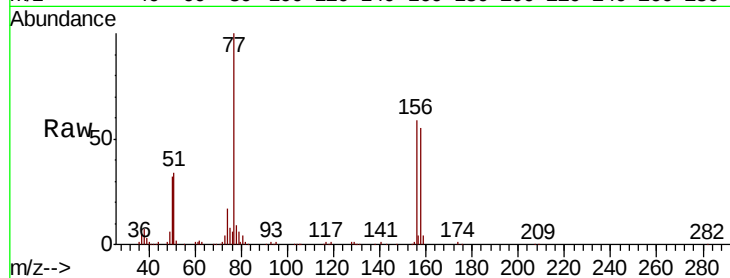
158 92.7 51.1 153.3

Manual Integrations

APPROVED

apatel

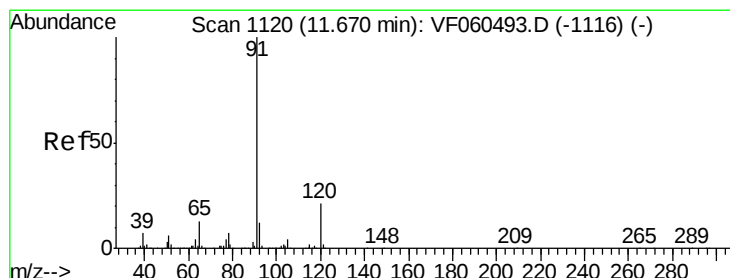
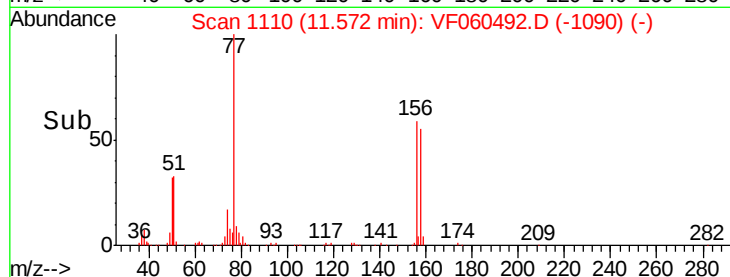
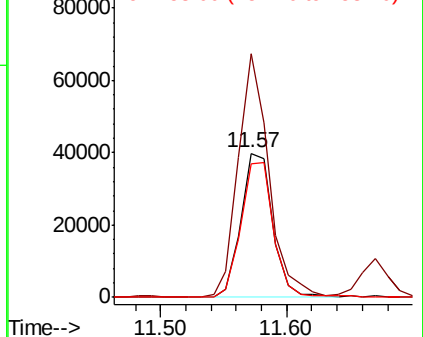
10/10/2018 12:33:47 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 20.193 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VF060492.D

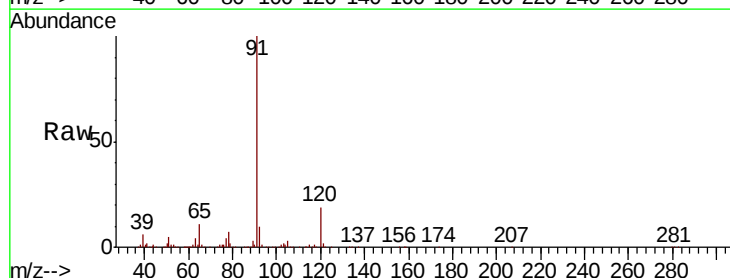
Acq: 9 Oct 2018 15:43

Tgt Ion: 91 Resp: 375458

Ion Ratio Lower Upper

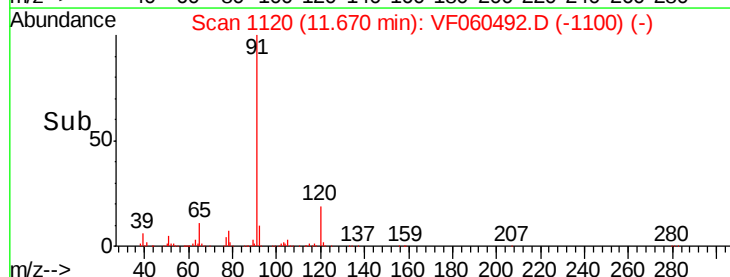
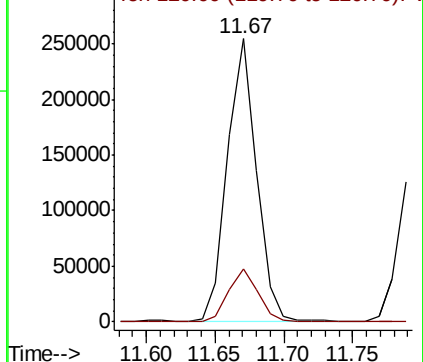
91 100

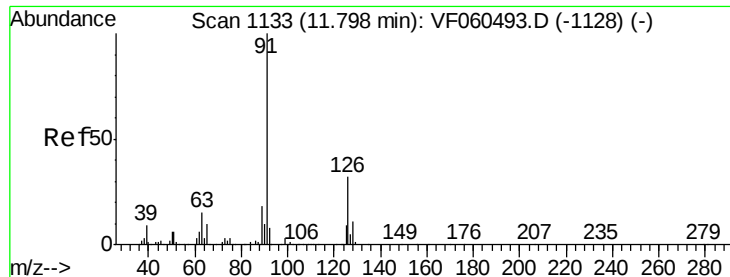
120 18.7 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.271 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 220985

Ion Ratio Lower Upper

91 100

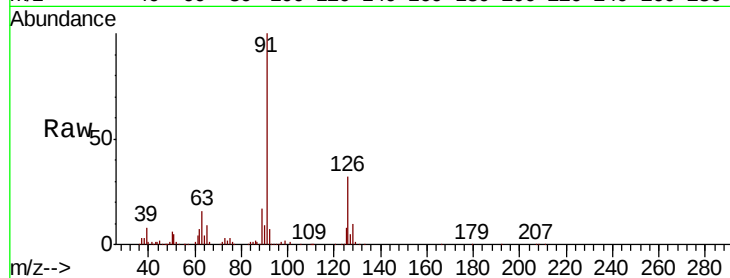
126 31.8 16.1 48.3

Manual Integrations

APPROVED

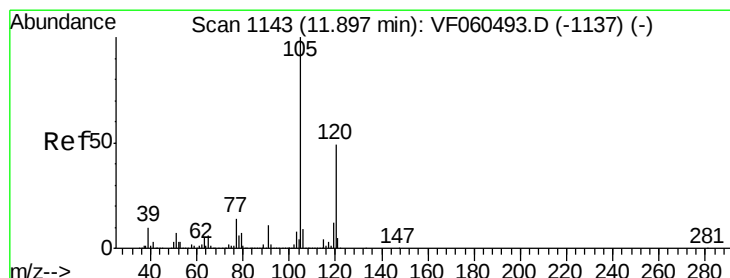
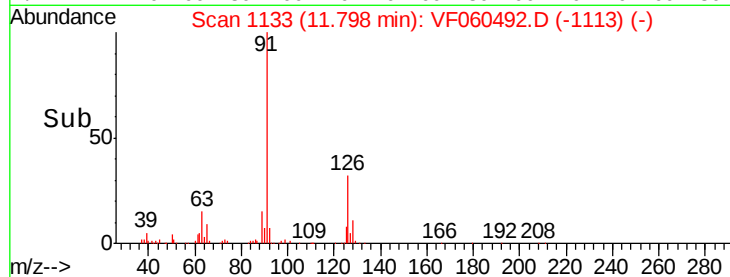
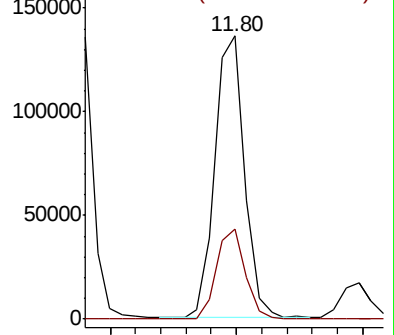
apatel

10/10/2018 12:33:47 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 20.021 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF060492.D

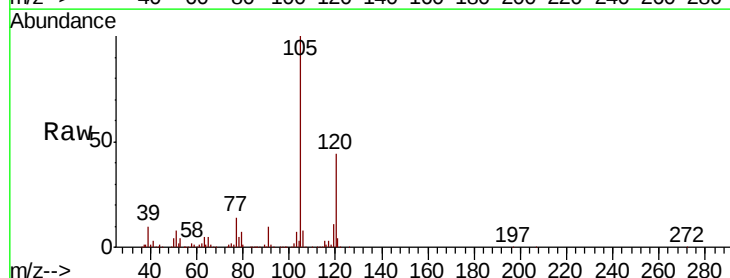
Acq: 9 Oct 2018 15:43

Tgt Ion: 105 Resp: 261620

Ion Ratio Lower Upper

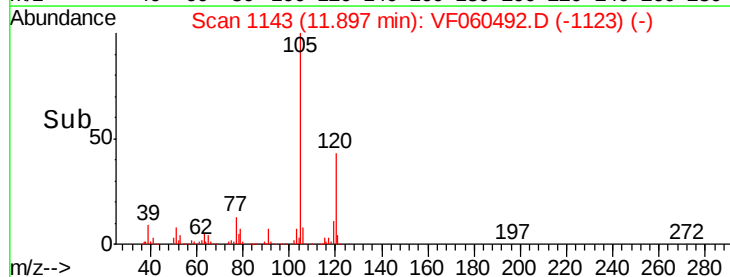
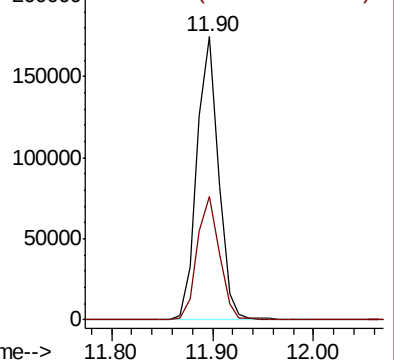
105 100

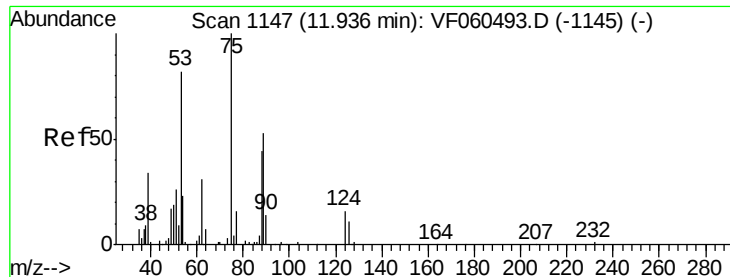
120 43.8 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 19.614 ug/l m

RT: 11.94 min Scan# 1147

Delta R.T. 0.00 min

Lab File: VF060492.D

Acq: 9 Oct 2018 15:43

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 17682

Ion Ratio Lower Upper

75 100

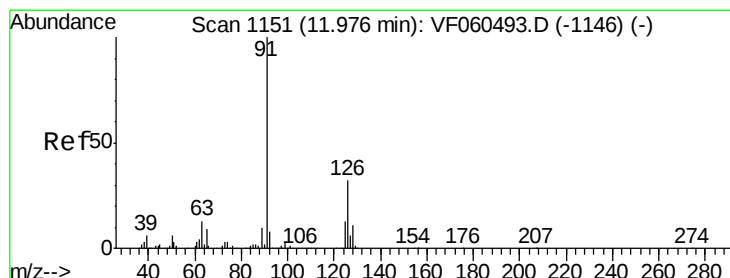
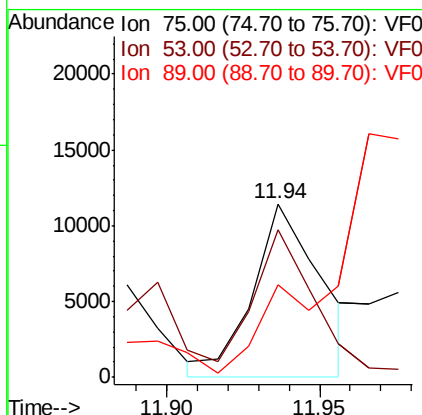
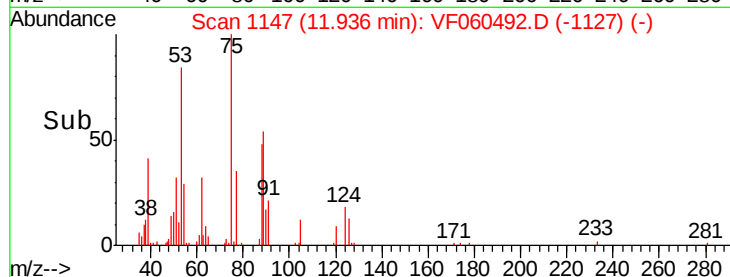
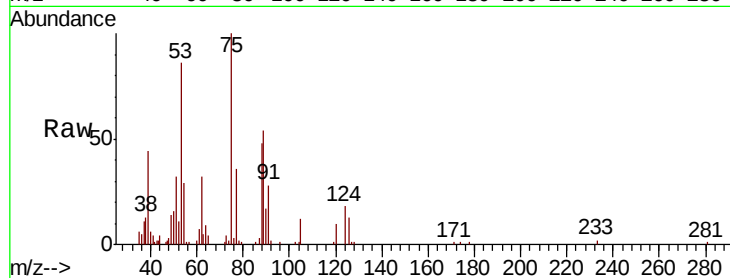
53 85.6 71.0 106.6

89 53.7 43.1 64.7

Manual Integrations
APPROVED

apatel

10/10/2018 12:33:47 PM



#82

4-Chlorotoluene

Concen: 19.859 ug/l

RT: 11.98 min Scan# 1151

Delta R.T. 0.00 min

Lab File: VF060492.D

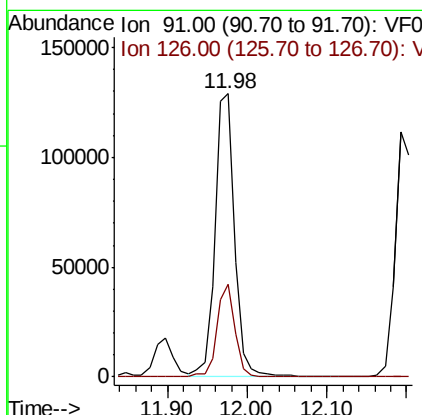
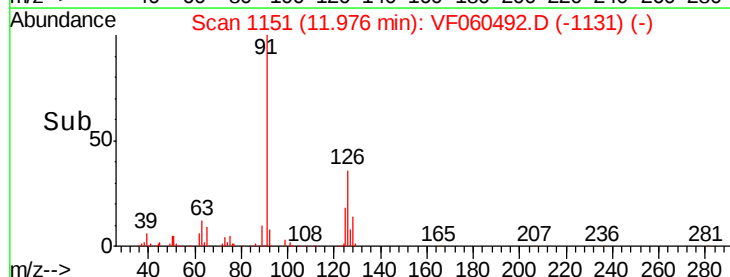
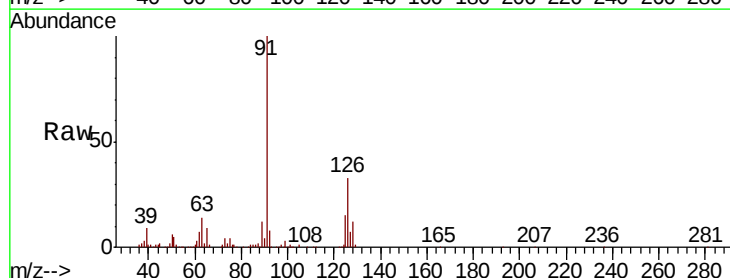
Acq: 9 Oct 2018 15:43

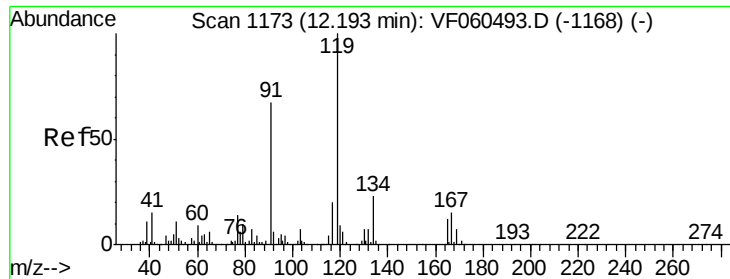
Tgt Ion: 91 Resp: 223053

Ion Ratio Lower Upper

91 100

126 32.5 16.0 47.9





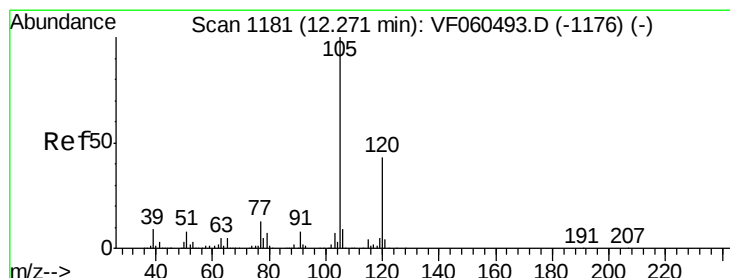
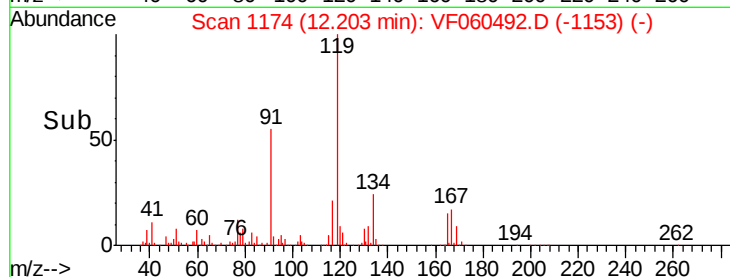
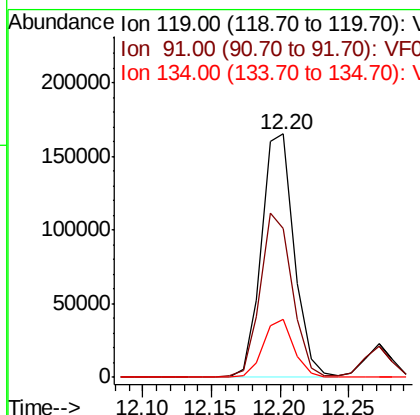
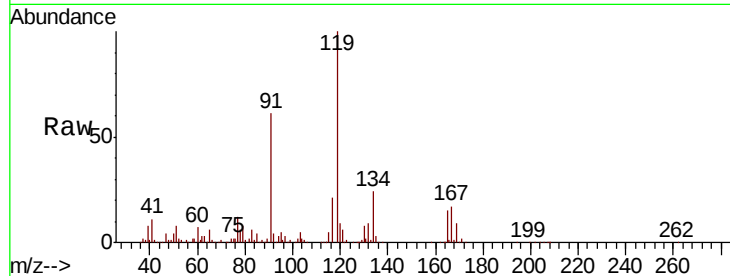
#83
tert-Butylbenzene
Concen: 21.226 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. 0.01 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.2	33.6	100.8
134	24.1	11.5	34.5

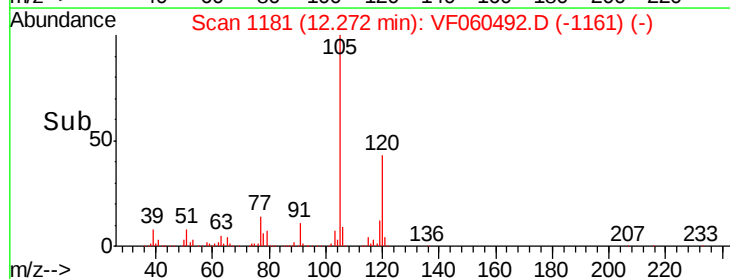
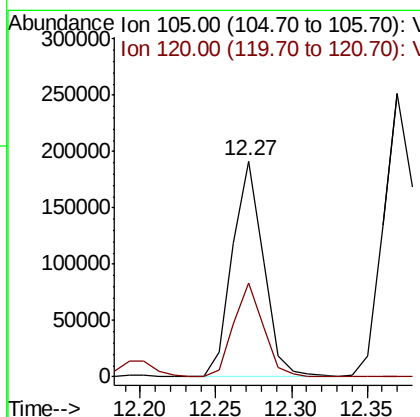
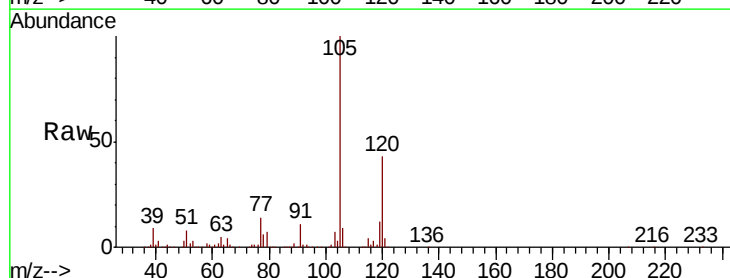
Manual Integrations
APPROVED

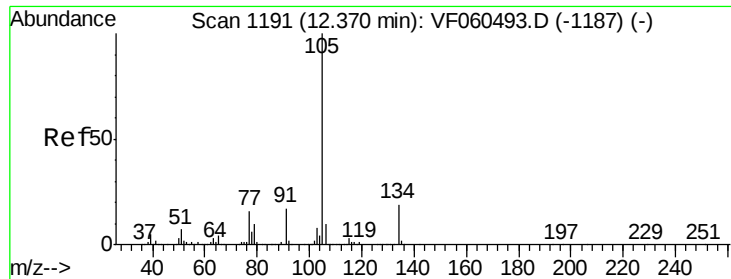
apatel
10/10/2018 12:33:47 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.903 ug/l
RT: 12.27 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.7	65.1





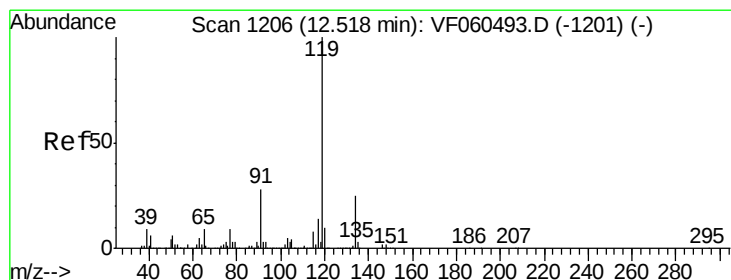
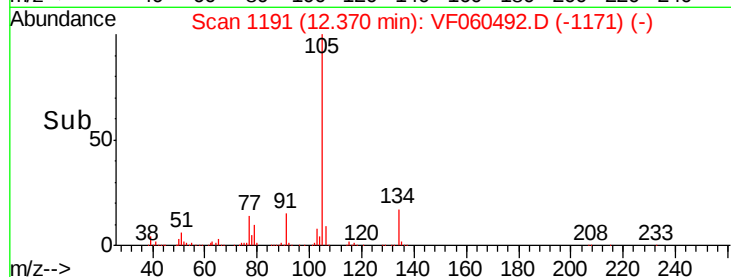
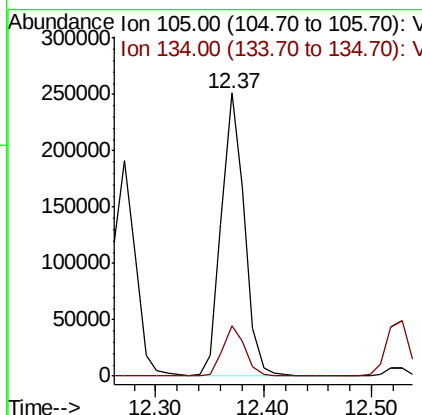
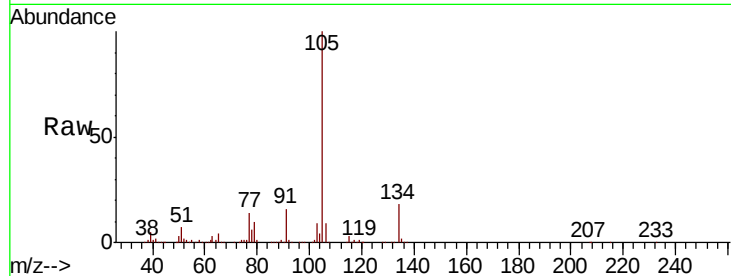
#85
 sec-Butylbenzene
 Concen: 20.880 ug/l
 RT: 12.37 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.8	9.3	27.9

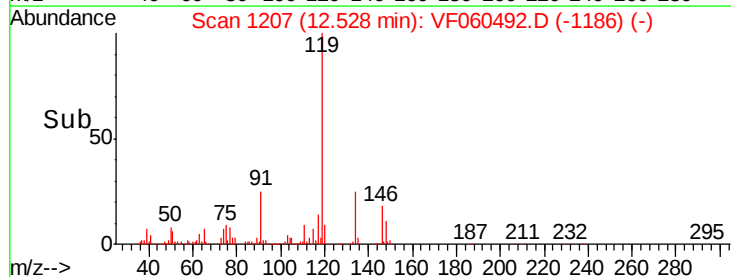
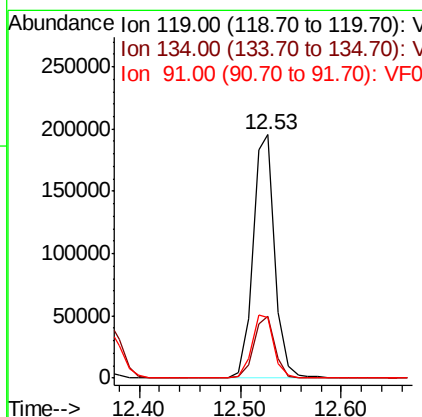
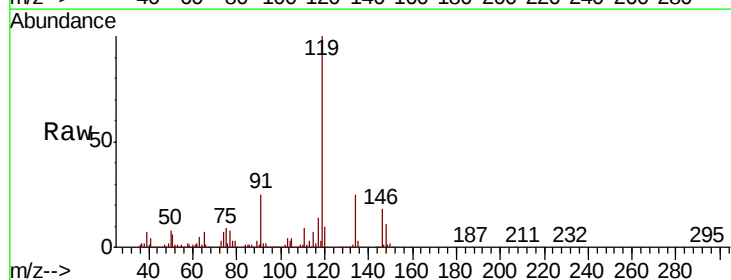
Manual Integrations
 APPROVED

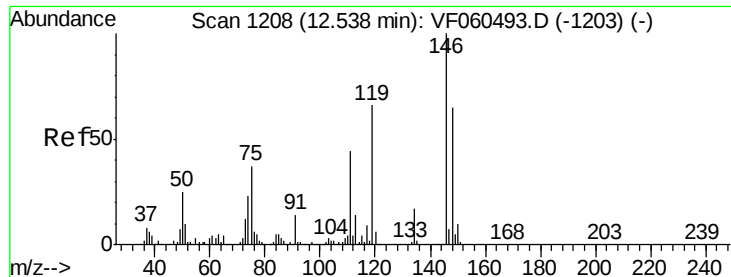
apatel
 10/10/2018 12:33:47 PM



#86
 p-Isopropyltoluene
 Concen: 20.296 ug/l
 RT: 12.53 min Scan# 1207
 Delta R.T. 0.01 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.6
91	24.7	14.1	42.4





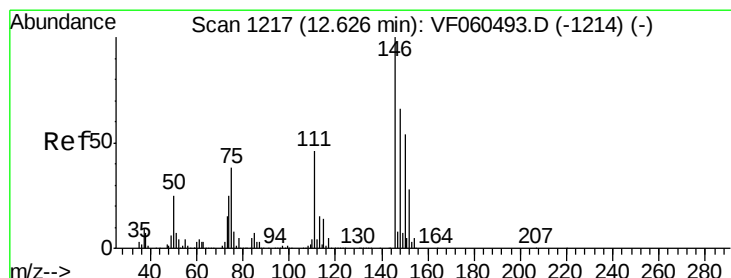
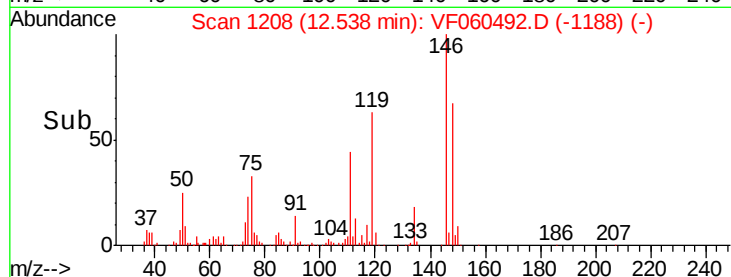
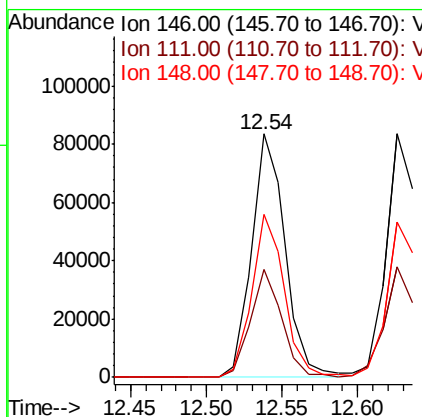
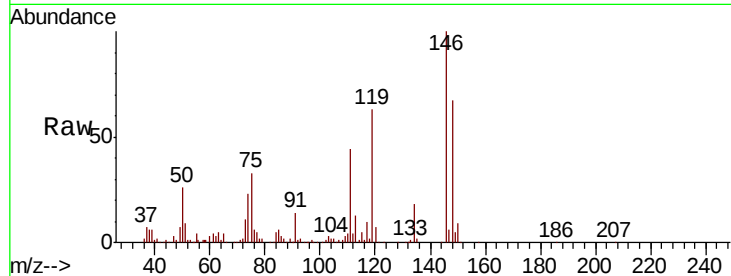
#87
 1,3-Dichlorobenzene
 Concen: 19.806 ug/l
 RT: 12.54 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.2	66.6
148	66.8	32.7	98.1

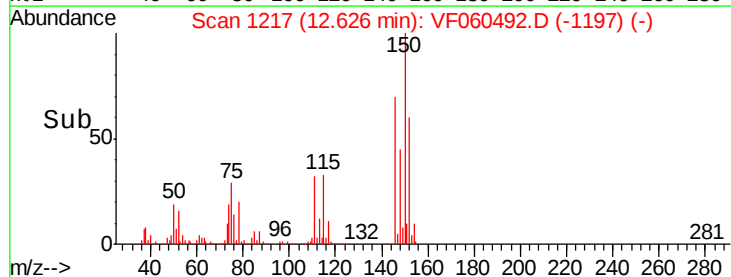
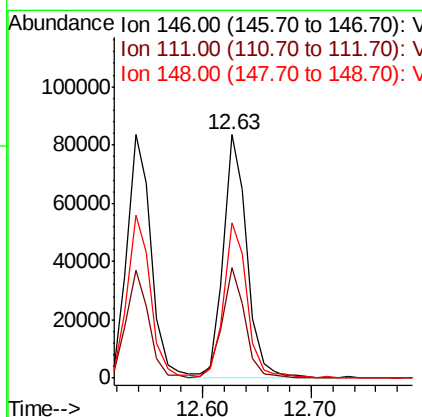
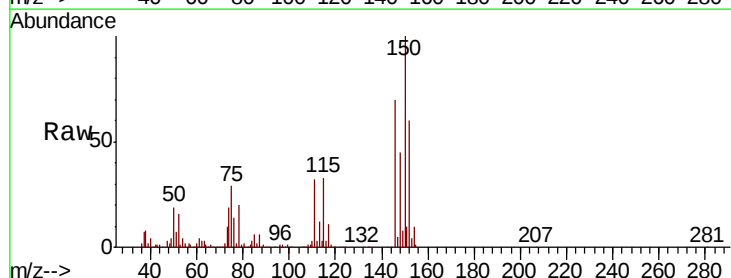
Manual Integrations
 APPROVED

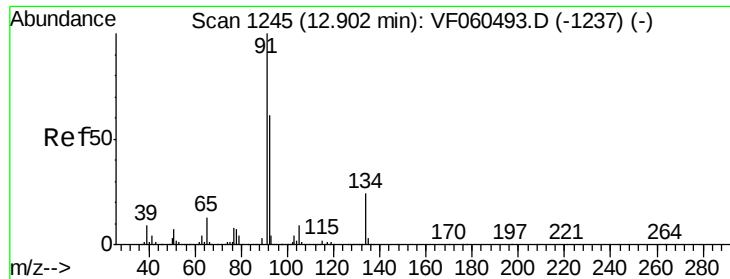
apatel
 10/10/2018 12:33:47 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.873 ug/l
 RT: 12.63 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.2	23.2	69.6
148	63.9	33.3	99.9





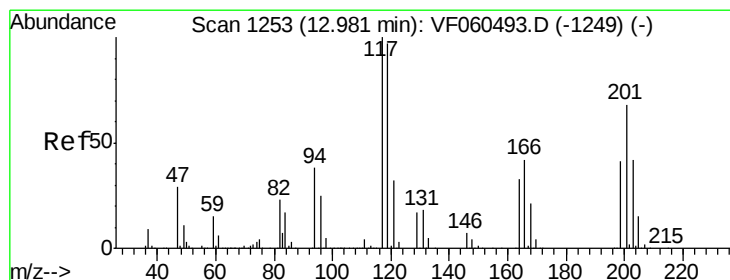
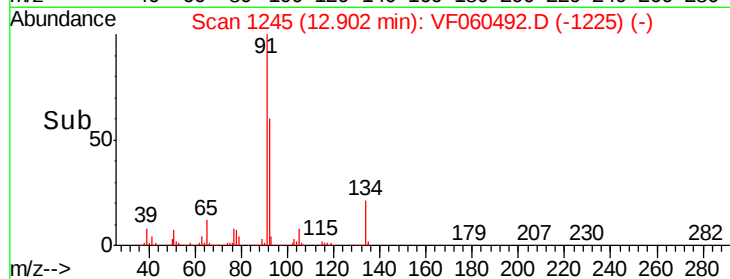
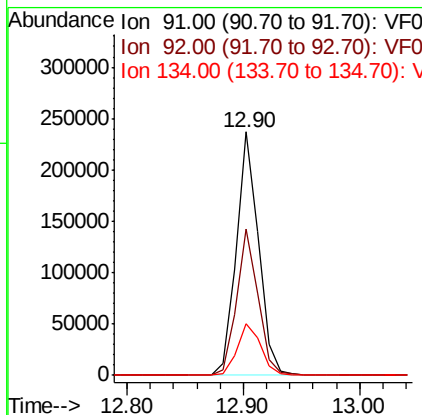
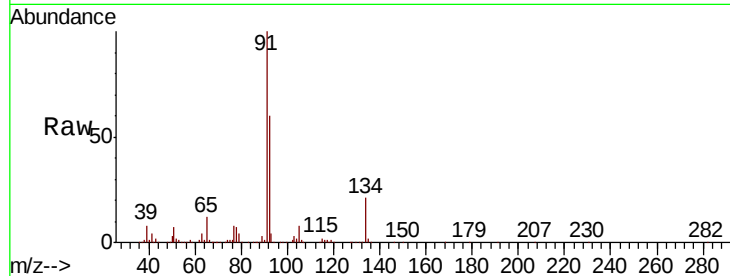
#89
n-Butylbenzene
Concen: 20.393 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.9	30.8	92.3
134	21.4	12.1	36.3

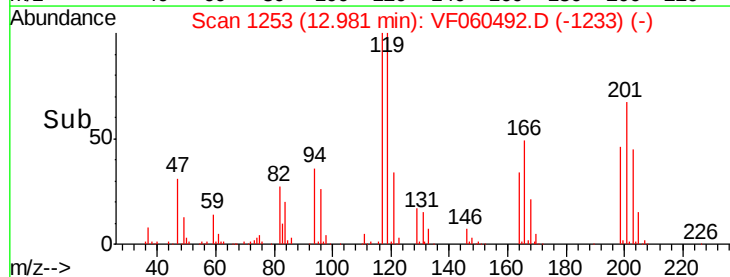
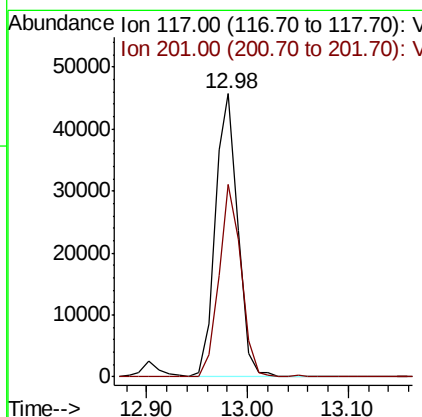
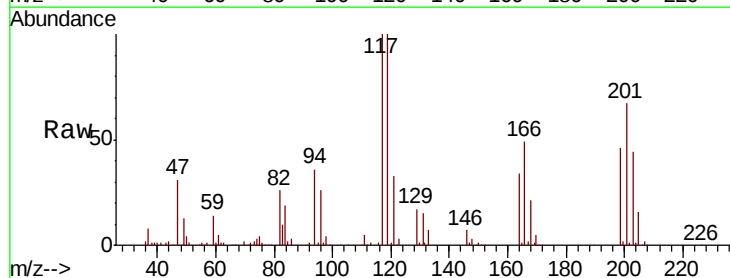
Manual Integrations
APPROVED

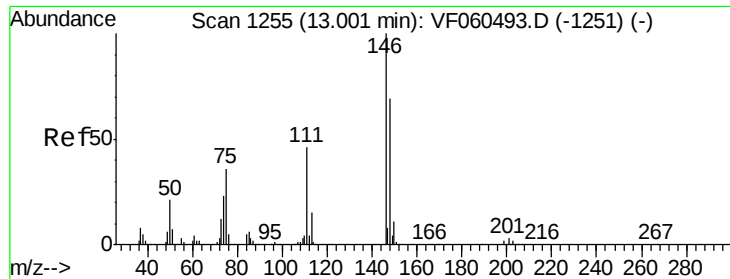
apatel
10/10/2018 12:33:47 PM



#90
Hexachloroethane
Concen: 19.292 ug/l
RT: 12.98 min Scan# 1253
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
117	100		
201	68.0	34.0	102.0





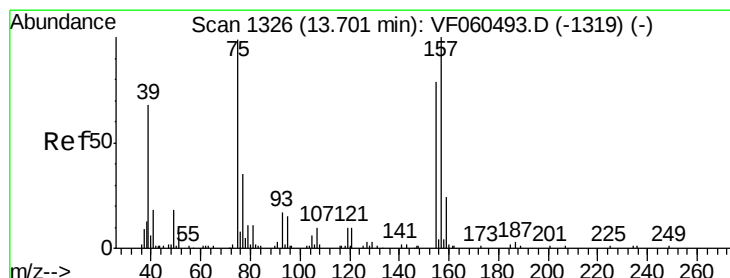
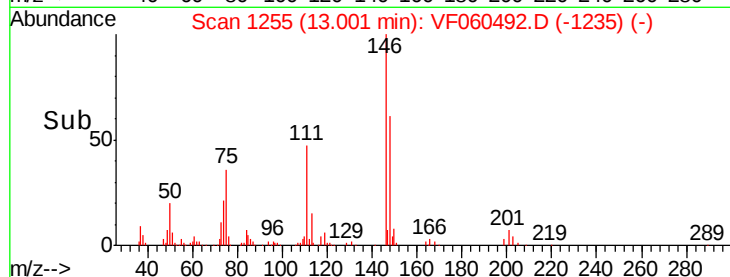
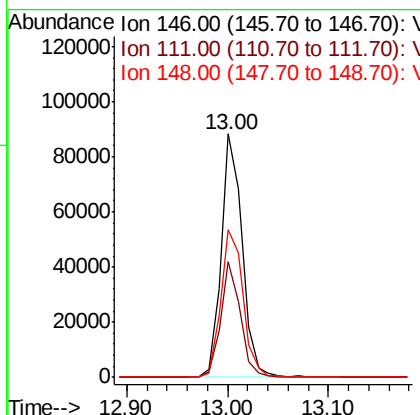
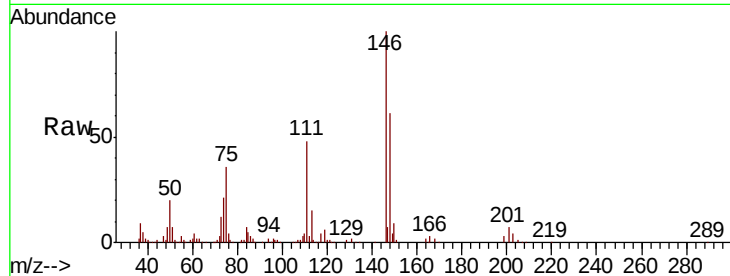
#91
 1,2-Dichlorobenzene
 Concen: 20.651 ug/l
 RT: 13.00 min Scan# 1255
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.6	22.9	68.7
148	60.8	34.5	103.5

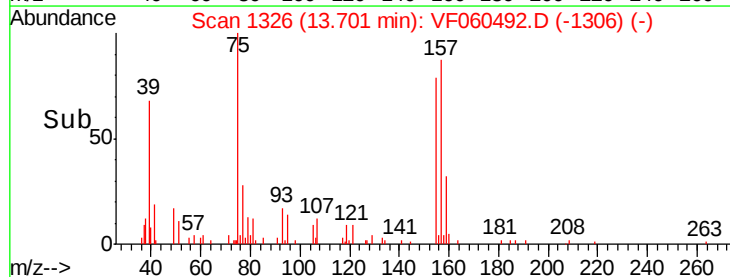
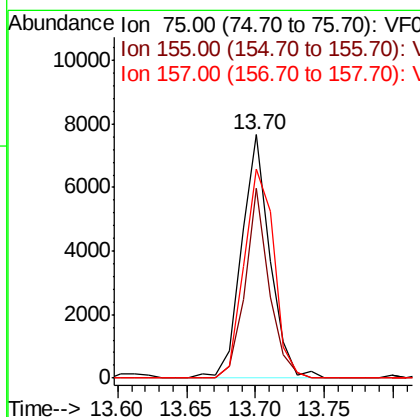
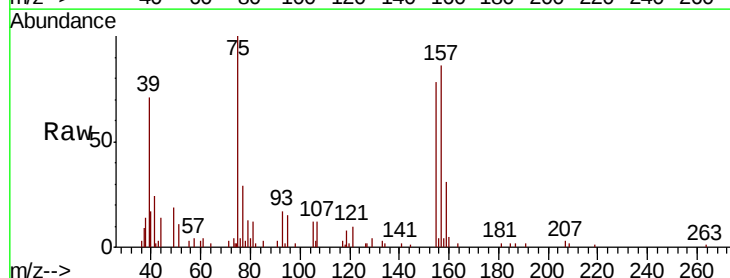
Manual Integrations
 APPROVED

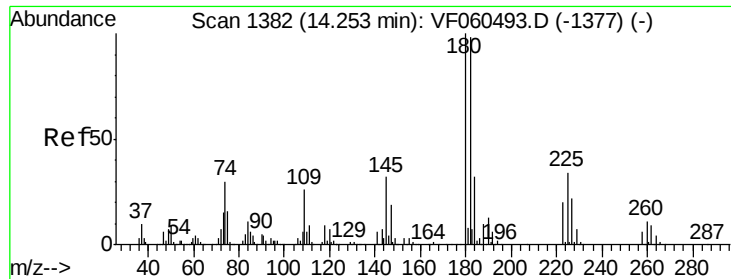
apatel
 10/10/2018 12:33:47 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.915 ug/l
 RT: 13.70 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.8	40.6	121.7
157	86.1	50.8	152.5





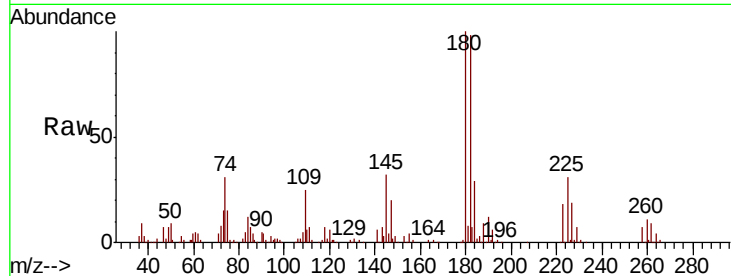
#93
 1,2,4-Trichlorobenzene
 Concen: 22.381 ug/l
 RT: 14.25 min Scan# 1382
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

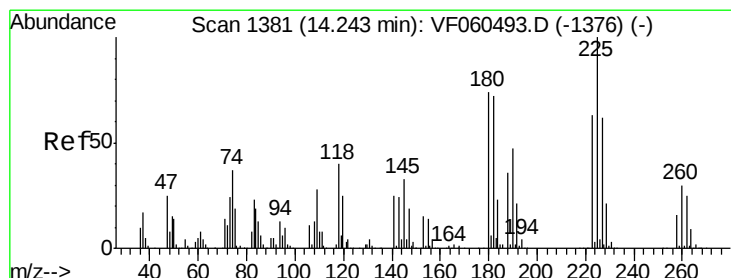
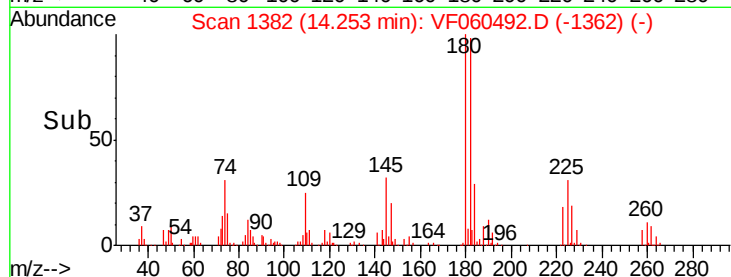
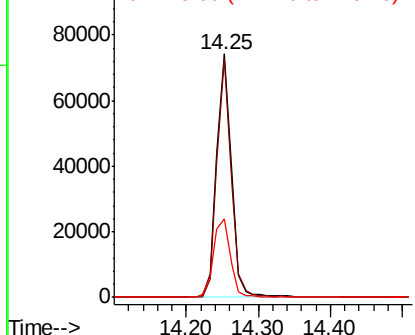
Tot Ion	Ratio	Resp	Lower	Upper
180	100	104311		
182	98.0	48.9	146.8	
145	32.2	16.2	48.5	

Manual Integrations
 APPROVED

apatel
 10/10/2018 12:33:47 PM

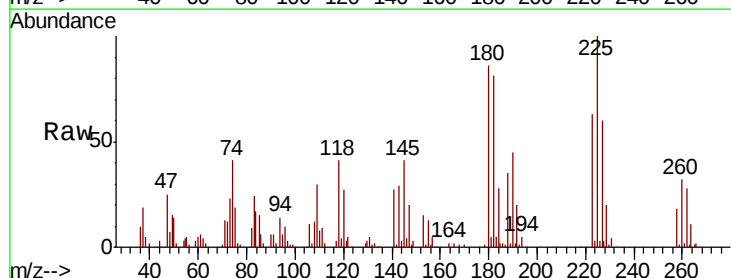


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

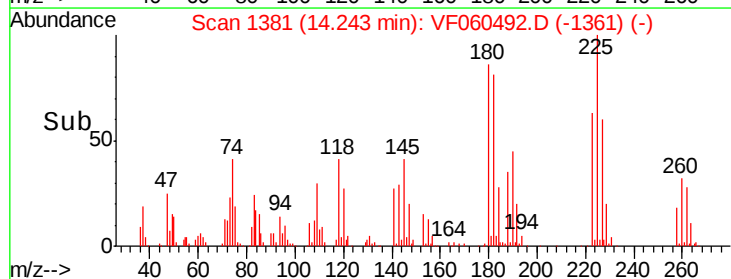
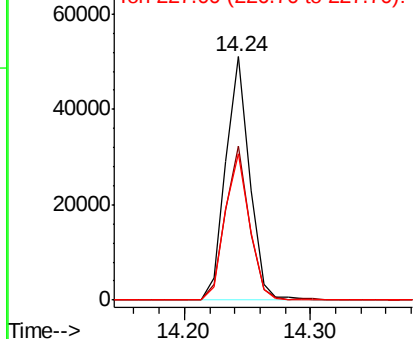


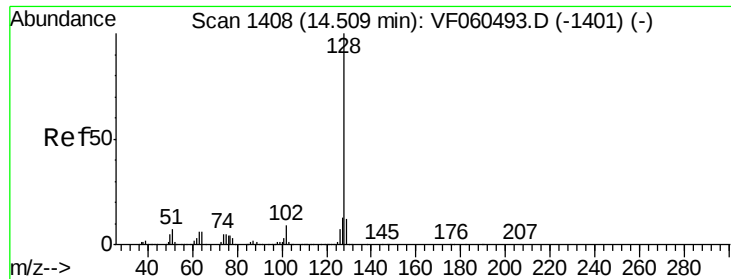
#94
 Hexachlorobutadiene
 Concen: 20.355 ug/l
 RT: 14.24 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VF060492.D
 Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	66714		
223	63.4	31.4	94.2	
227	60.3	30.9	92.7	



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





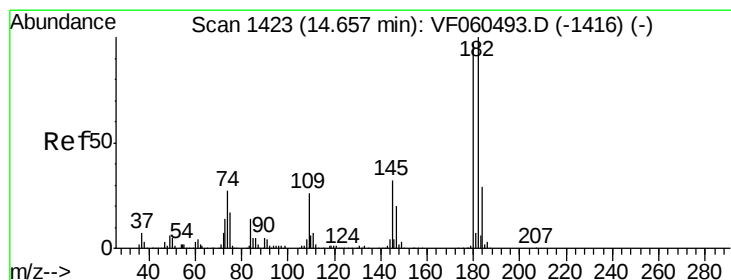
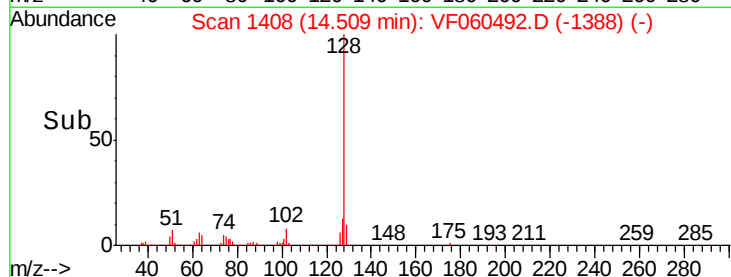
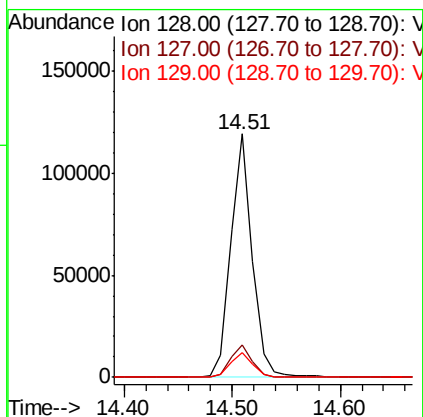
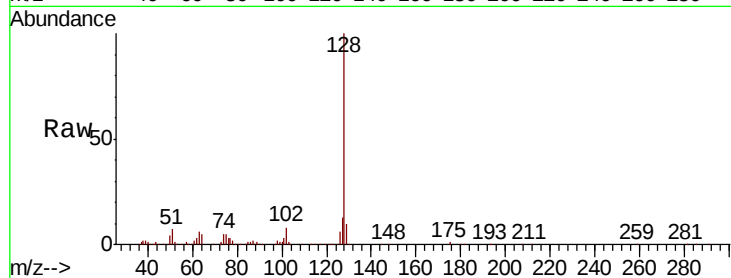
#95
Naphthalene
Concen: 19.818 ug/l
RT: 14.51 min Scan# 1408
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	9.9	9.2	13.8

Manual Integrations
APPROVED

apatel
10/10/2018 12:33:47 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.987 ug/l
RT: 14.66 min Scan# 1423
Delta R.T. 0.00 min
Lab File: VF060492.D
Acq: 9 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.1	51.3	153.9
145	32.3	16.4	49.2

