

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102618\
 Data File : VX005647.D
 Acq On : 27 Oct 2018 10:53
 Operator : JC/MD
 Sample : J5292-11MS
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ459I-20181025MS

Quant Time: Oct 29 00:54:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	217618	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	350136	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	293586	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	191188	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	133735	50.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.68%	
35) Dibromofluoromethane	5.51	113	110615	46.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.32%	
50) Toluene-d8	8.71	98	367404	43.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.26%	
62) 4-Bromofluorobenzene	11.14	95	142181	44.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.40%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.20	85	134400	62.570	ug/l	95
3) Chloromethane	1.32	50	140397	51.325	ug/l #	88
4) Vinyl Chloride	1.41	62	150245	55.858	ug/l	91
5) Bromomethane	1.64	94	71089	42.475	ug/l	93
6) Chloroethane	1.71	64	91152	53.048	ug/l	96
7) Trichlorofluoromethane	1.93	101	186371	49.866	ug/l	97
8) Diethyl Ether	2.19	74	73184	49.067	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	100007	46.637	ug/l	98
10) Methyl Iodide	2.51	142	106682	47.764	ug/l	98
11) Tert butyl alcohol	3.07	59	179602	251.247	ug/l	100
12) 1,1-Dichloroethene	2.37	96	98402	48.171	ug/l	86
13) Acrolein	2.29	56	77857	213.514	ug/l	97
14) Allyl chloride	2.73	41	209828	46.024	ug/l	97
15) Acrylonitrile	3.15	53	421952	263.235	ug/l	98
16) Acetone	2.45	43	370034	263.613	ug/l	91
17) Carbon Disulfide	2.57	76	303494	48.738	ug/l	99
18) Methyl Acetate	2.78	43	202335	58.600	ug/l	100
19) Methyl tert-butyl Ether	3.20	73	360632	49.491	ug/l	98
20) Methylene Chloride	2.85	84	115863	49.283	ug/l	94
21) trans-1,2-Dichloroethene	3.17	96	110533	49.557	ug/l	96
22) Diisopropyl ether	3.87	45	403730	50.710	ug/l #	89
23) Vinyl Acetate	3.82	43	1799446	256.634	ug/l	99
24) 1,1-Dichloroethane	3.70	63	223115	51.546	ug/l	99
25) 2-Butanone	4.70	43	605803	283.409	ug/l	93
26) 2,2-Dichloropropane	4.58	77	97061	29.045	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	120739	50.213	ug/l	98
28) Bromochloromethane	5.02	49	111815	53.410	ug/l	98
29) Tetrahydrofuran	5.15	42	367489	264.177	ug/l	97
30) Chloroform	5.21	83	210815	52.067	ug/l	90
31) Cyclohexane	5.57	56	183231	51.162	ug/l #	88
32) 1,1,1-Trichloroethane	5.49	97	173911	48.666	ug/l	99
36) 1,1-Dichloropropene	5.79	75	160118	47.122	ug/l	99
37) Ethyl Acetate	4.85	43	210352	48.513	ug/l	98
38) Carbon Tetrachloride	5.77	117	159937	44.690	ug/l	94

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 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	164071	43.728	ug/l	86
40) Benzene	6.14	78	481074	49.389	ug/l	99
41) Methacrylonitrile	5.06	41	113716	47.081	ug/l	99
42) 1,2-Dichloroethane	6.20	62	175810	47.512	ug/l	99
43) Isopropyl Acetate	6.45	43	305634	47.038	ug/l	98
44) Trichloroethene	7.21	130	122597	46.201	ug/l	86
45) 1,2-Dichloropropane	7.51	63	115124	43.961	ug/l	100
46) Dibromomethane	7.66	93	73727	43.590	ug/l	99
47) Bromodichloromethane	7.90	83	160172	48.793	ug/l	93
48) Methyl methacrylate	7.77	41	156375	49.402	ug/l	98
49) 1,4-Dioxane	7.75	88	63011	910.903	ug/l	98
51) 4-Methyl-2-Pentanone	8.65	43	987138	226.056	ug/l	100
52) Toluene	8.79	92	258581	43.681	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	148029	41.724	ug/l	98
54) cis-1,3-Dichloropropene	8.44	75	158493	41.493	ug/l	98
55) 1,1,2-Trichloroethane	9.21	97	107330	43.004	ug/l	97
56) Ethyl methacrylate	9.18	69	171599	46.095	ug/l	99
57) 1,3-Dichloropropane	9.37	76	184216	43.622	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.31	63	437977	210.649	ug/l	100
59) 2-Hexanone	9.49	43	785846	228.245	ug/l	99
60) Dibromochloromethane	9.59	129	115304	44.280	ug/l	100
61) 1,2-Dibromoethane	9.67	107	112988	43.759	ug/l	99
64) Tetrachloroethene	9.34	164	109436	44.903	ug/l	98
65) Chlorobenzene	10.14	112	293444	46.938	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.22	131	110521	48.483	ug/l	98
67) Ethyl Benzene	10.25	91	506128	49.206	ug/l	100
68) m/p-Xylenes	10.36	106	419226	105.053	ug/l	100
69) o-Xylene	10.70	106	193140	51.443	ug/l	98
70) Styrene	10.71	104	320031	50.919	ug/l	96
71) Bromoform	10.86	173	102059	50.173	ug/l	99
73) Isopropylbenzene	11.02	105	525164	44.936	ug/l	99
74) N-amyl acetate	10.90	43	275582	47.589	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.27	83	180652	41.898	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	232650	57.433	ug/l	83
77) Bromobenzene	11.26	156	136881	42.026	ug/l	100
78) n-propylbenzene	11.36	91	642860	48.105	ug/l	100
79) 2-Chlorotoluene	11.42	91	389209	46.973	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	441161	44.126	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.07	75	44290	35.726	ug/l	98
82) 4-Chlorotoluene	11.51	91	440237	45.058	ug/l	99
83) tert-Butylbenzene	11.77	119	494571	49.627	ug/l	98
84) 1,2,4-Trimethylbenzene	11.81	105	543484	53.638	ug/l	96
85) sec-Butylbenzene	11.94	105	622188	52.322	ug/l	100
86) p-Isopropyltoluene	12.07	119	575422	54.130	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	328560	53.644	ug/l	94
88) 1,4-Dichlorobenzene	12.10	146	313746	49.075	ug/l	99
89) n-Butylbenzene	12.39	91	513250	53.481	ug/l	99
90) Hexachloroethane	12.60	117	98354	53.644	ug/l	95
91) 1,2-Dichlorobenzene	12.40	146	327641	52.874	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	56203	53.910	ug/l	93

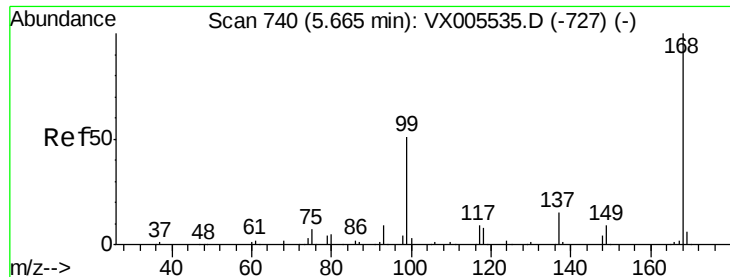
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX102618\
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Quant Title : SW846 8260
QLast Update : Thu Oct 25 02:52:45 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	189293	42.140	ug/l	100
94) Hexachlorobutadiene	13.79	225	108811	46.744	ug/l	97
95) Naphthalene	13.83	128	811656	62.162	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	257600	56.573	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

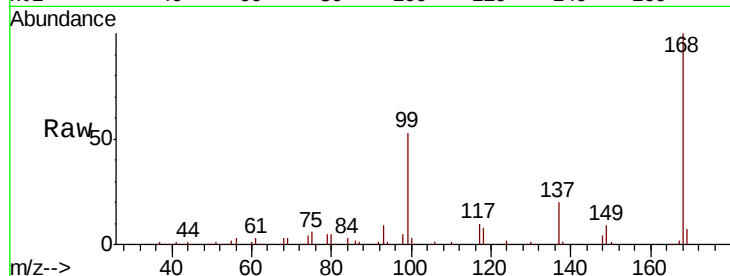
FT-PZ459I-20181025MS

Tot Ion:168 Resp: 217618

Ion Ratio Lower Upper

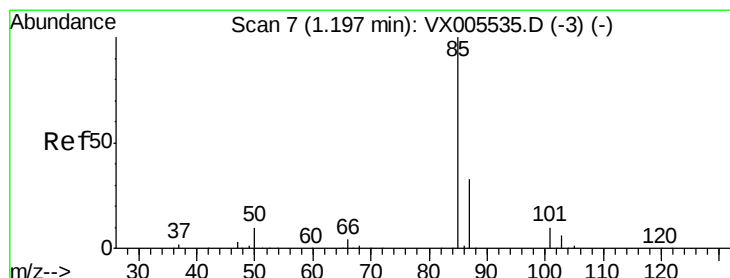
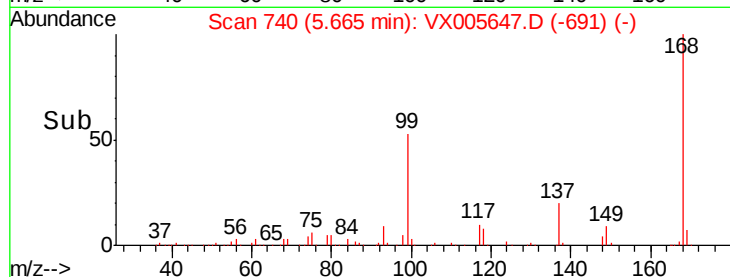
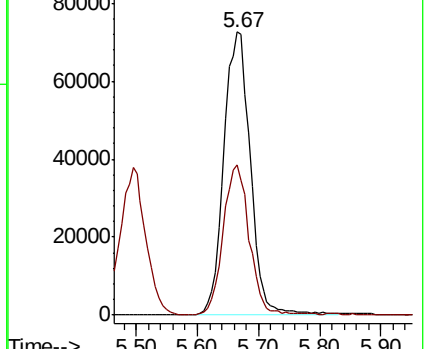
168 100

99 53.1 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 62.570 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX005647.D

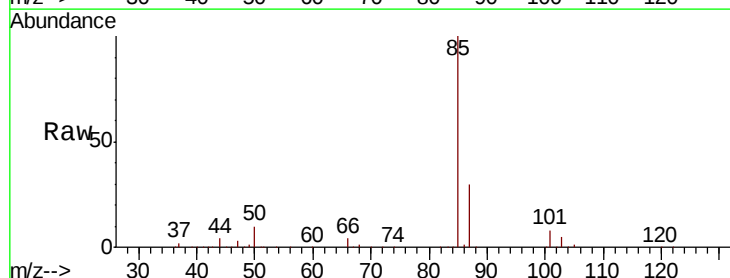
Acq: 27 Oct 2018 10:53

Tgt Ion: 85 Resp: 134400

Ion Ratio Lower Upper

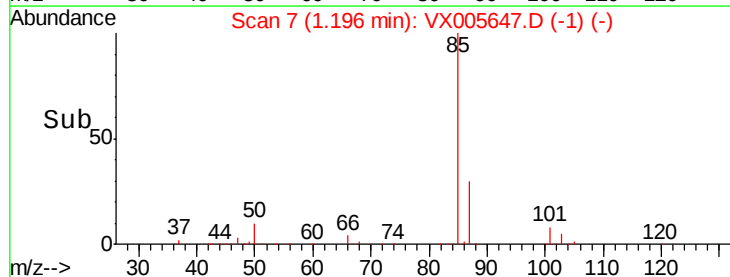
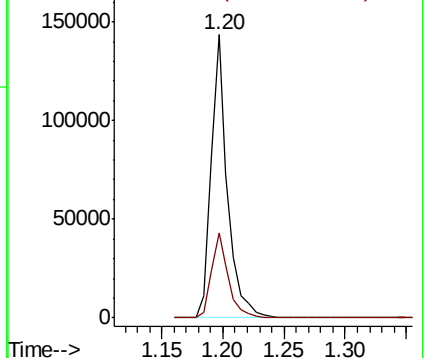
85 100

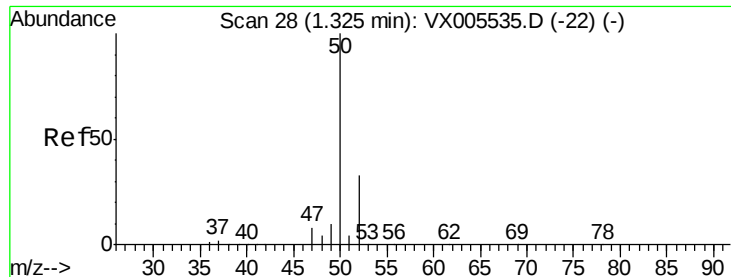
87 30.0 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 51.325 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

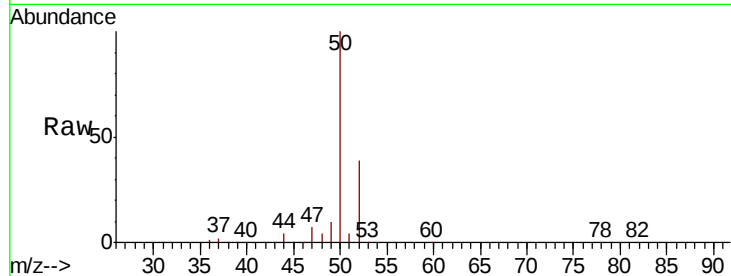
FT-PZ459I-20181025MS

Tot Ion: 50 Resp: 140397

Ion Ratio Lower Upper

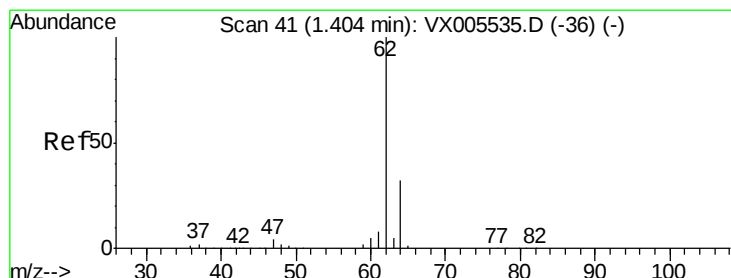
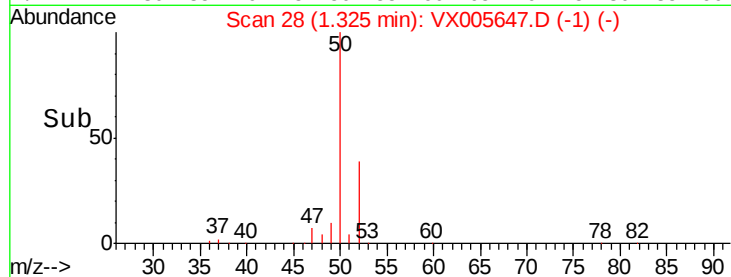
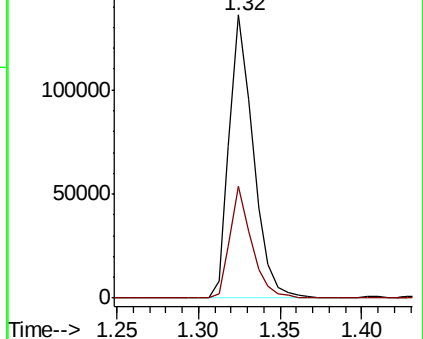
50 100

52 39.3 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 55.858 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.01 min

Lab File: VX005647.D

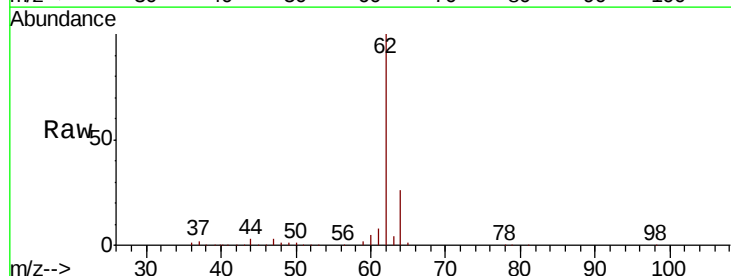
Acq: 27 Oct 2018 10:53

Tgt Ion: 62 Resp: 150245

Ion Ratio Lower Upper

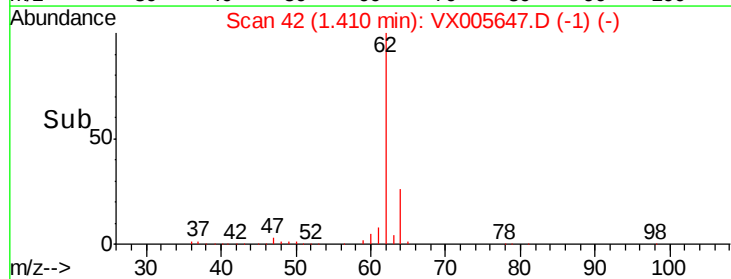
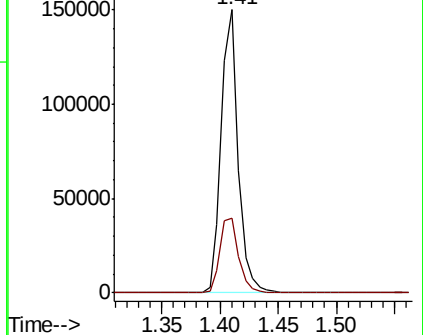
62 100

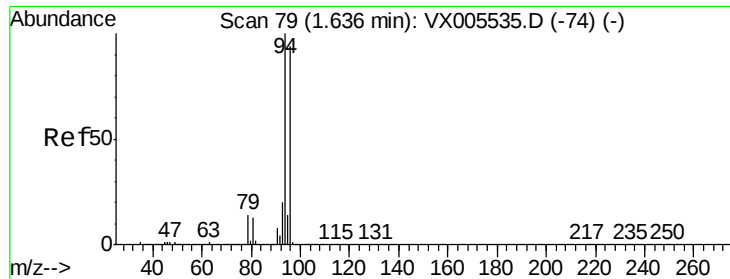
64 26.5 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 42.475 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

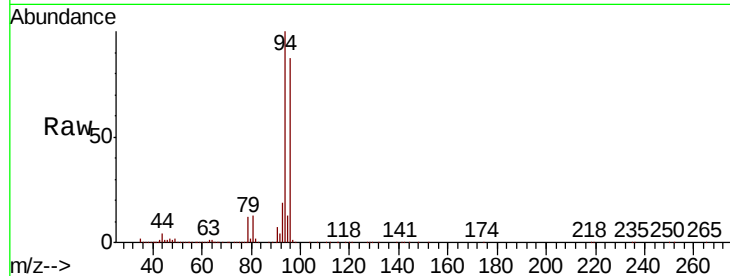
FT-PZ459I-20181025MS

Tot Ion: 94 Resp: 71089

Ion Ratio Lower Upper

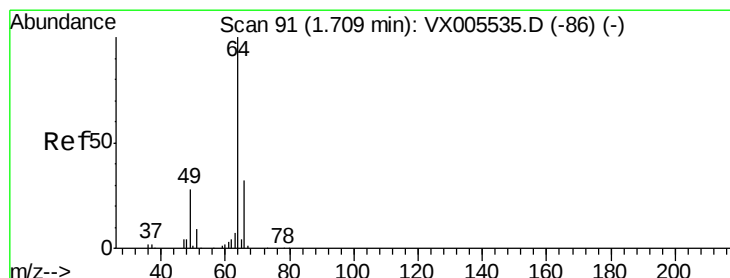
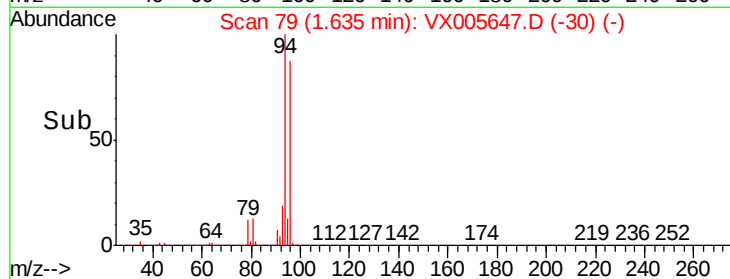
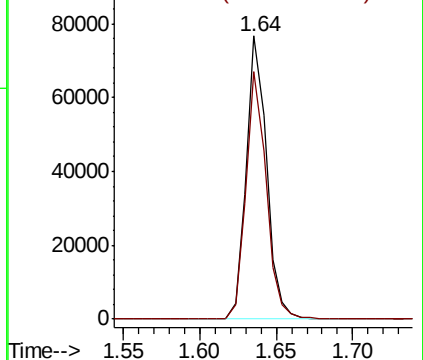
94 100

96 87.3 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 53.048 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.01 min

Lab File: VX005647.D

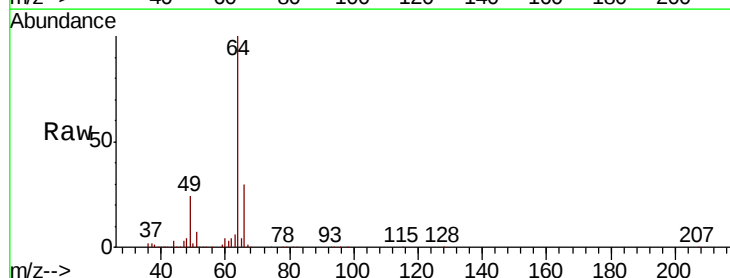
Acq: 27 Oct 2018 10:53

Tgt Ion: 64 Resp: 91152

Ion Ratio Lower Upper

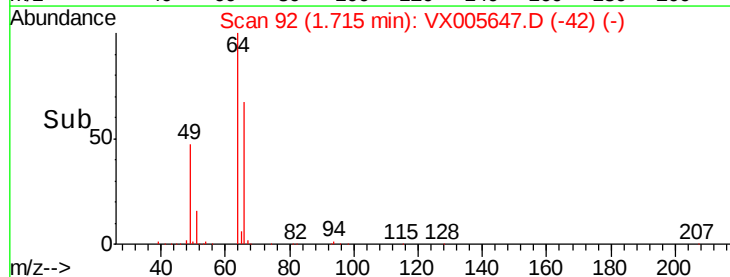
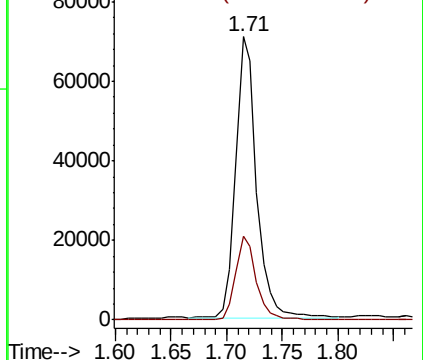
64 100

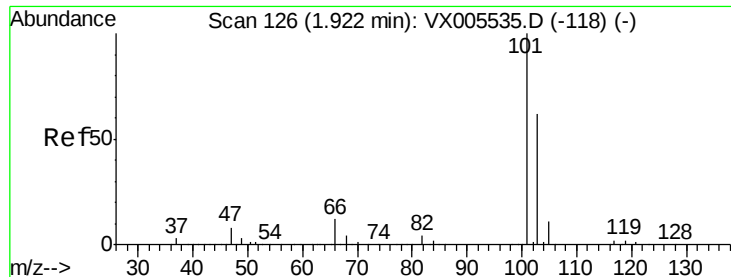
66 29.8 25.8 38.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



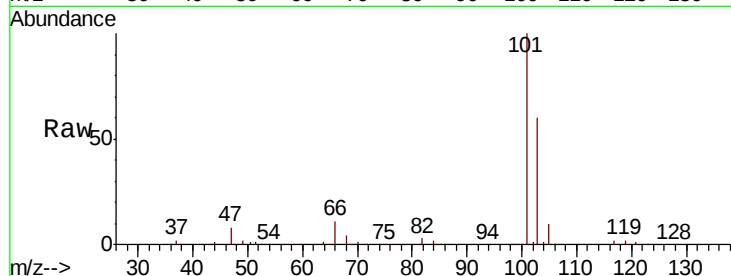


#7

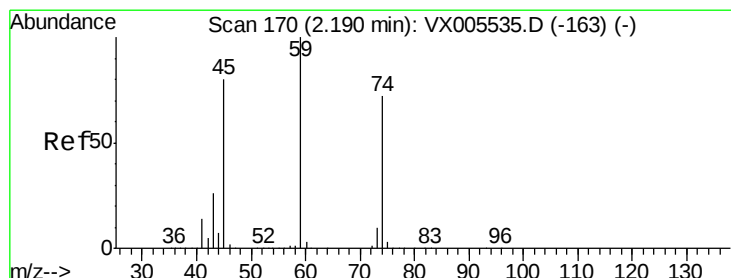
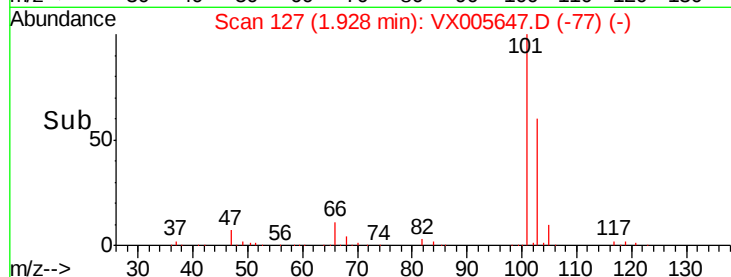
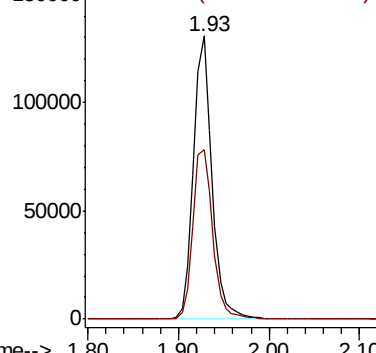
Trichlorofluoromethane
 Concen: 49.866 ug/l
 RT: 1.93 min Scan# 127
 Delta R.T. 0.01 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

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Tot Ion:101 Resp: 186371
 Ion Ratio Lower Upper
 101 100
 103 59.9 50.0 75.0



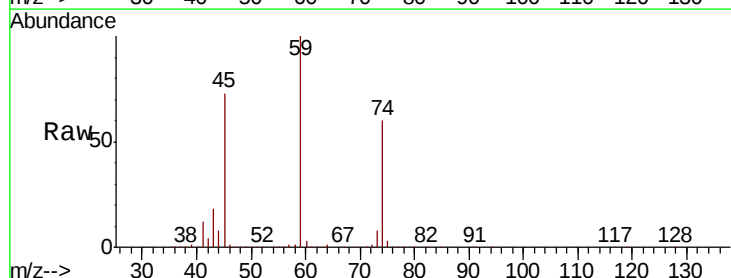
Abundance Ion 100.90 (100.60 to 101.60): V
 150000 Ion 102.80 (102.50 to 103.50): V



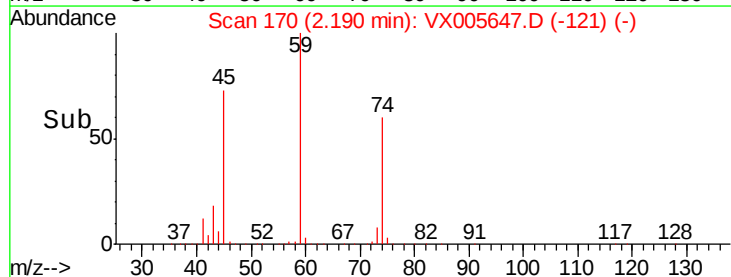
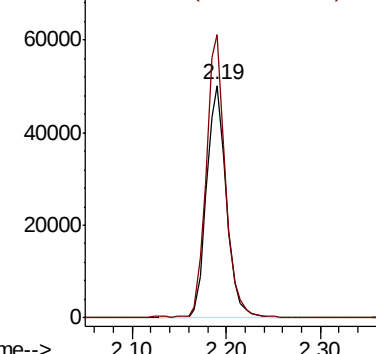
#8

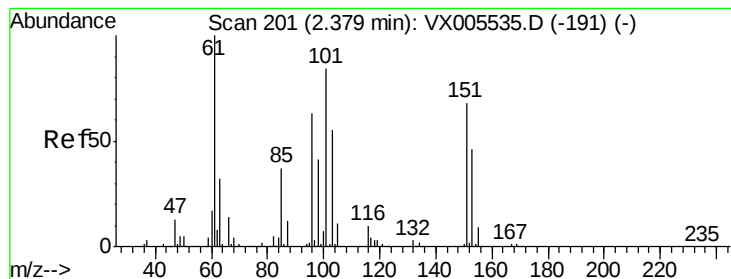
Diethyl Ether
 Concen: 49.067 ug/l
 RT: 2.19 min Scan# 170
 Delta R.T. -0.00 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Tgt Ion: 74 Resp: 73184
 Ion Ratio Lower Upper
 74 100
 45 116.1 54.1 162.3



Abundance Ion 74.00 (73.70 to 74.70): VX0
 60000 Ion 45.00 (44.70 to 45.70): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.637 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

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ClientSampleId :

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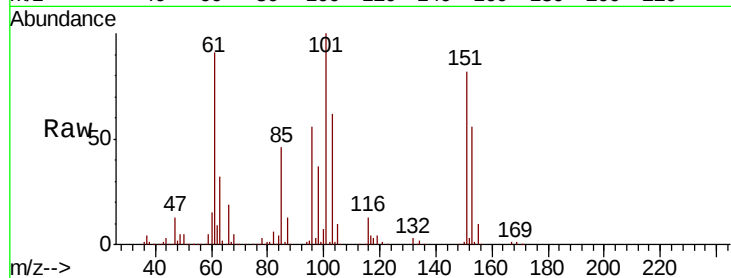
Tot Ion:101 Resp: 100007

Ion Ratio Lower Upper

101 100

85 46.9 35.0 52.4

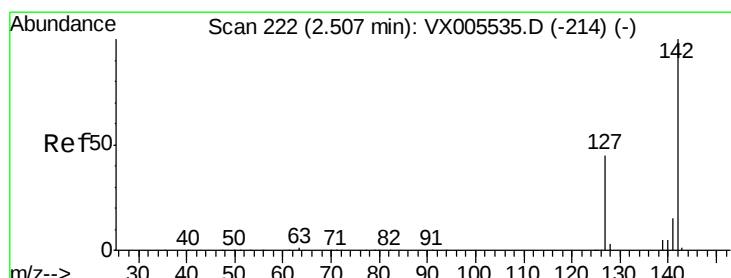
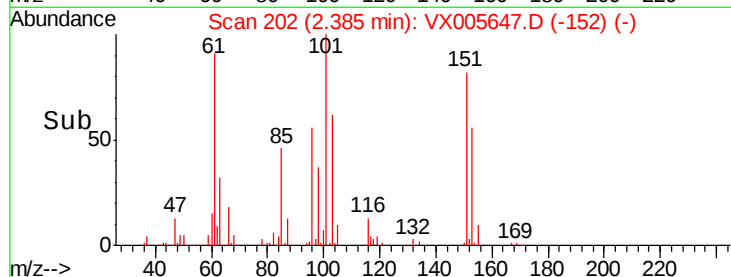
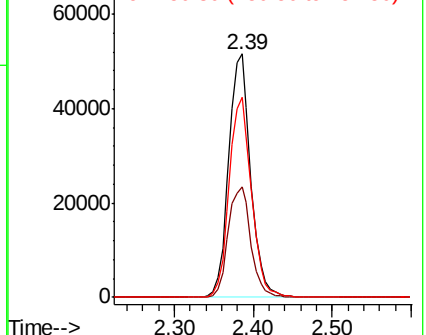
151 83.4 66.2 99.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 47.764 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

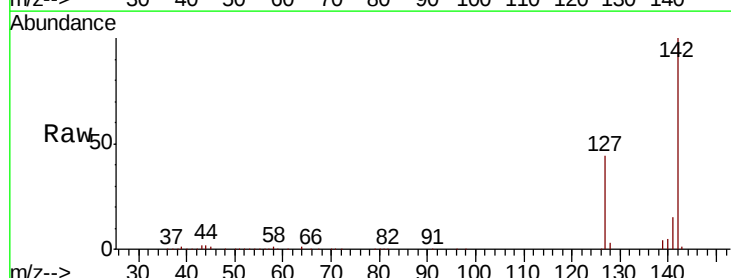
Tgt Ion:142 Resp: 106682

Ion Ratio Lower Upper

142 100

127 43.5 36.0 54.0

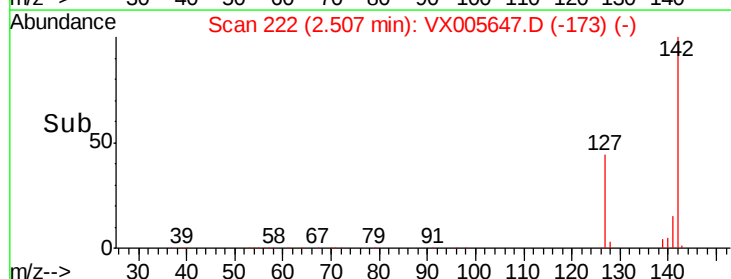
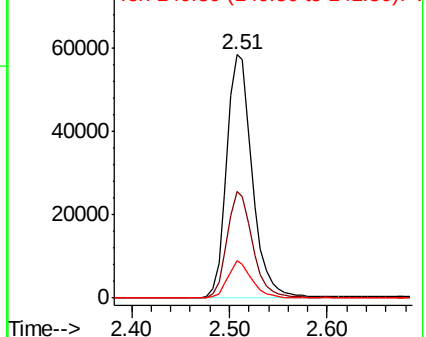
141 14.5 11.7 17.5

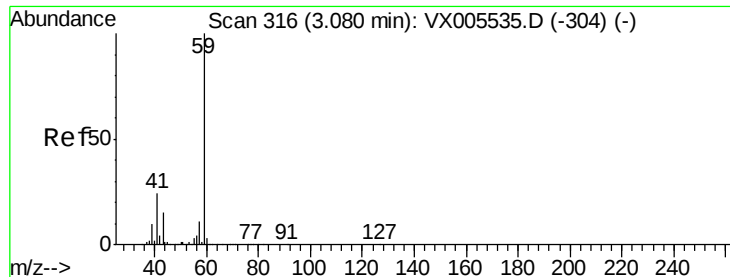


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



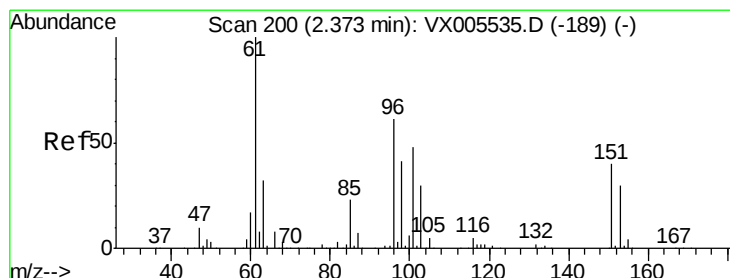
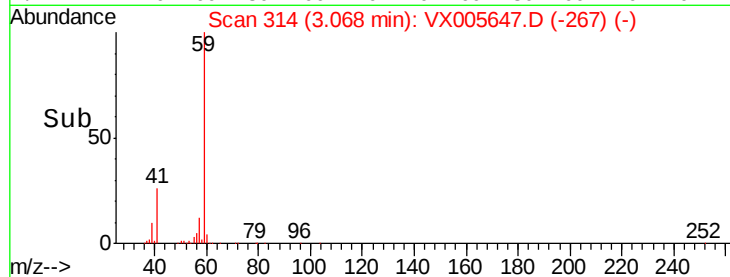
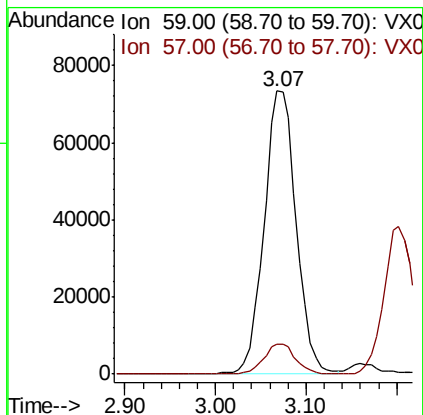
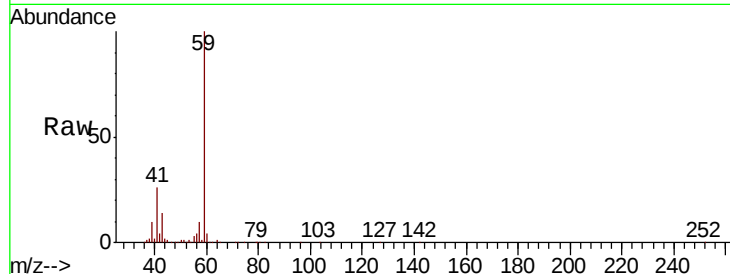


#11

Tert butyl alcohol
 Concen: 251.247 ug/l
 RT: 3.07 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ459I-20181025MS

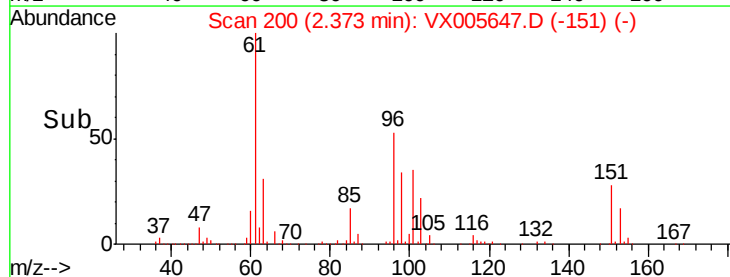
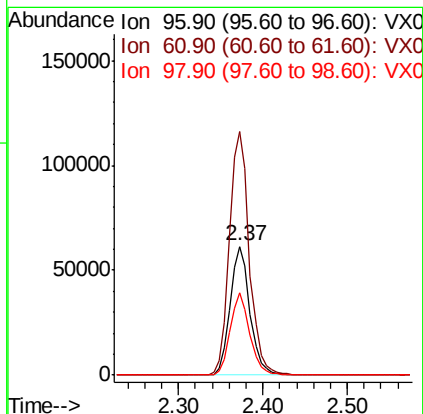
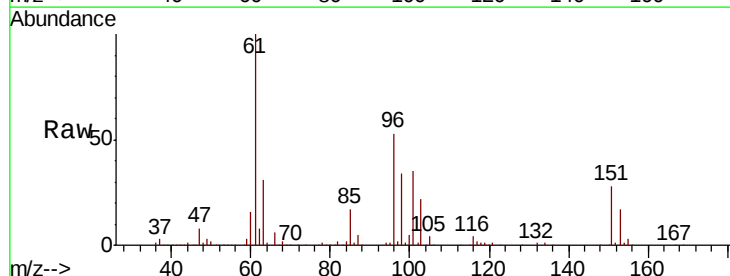
Tot Ion: 59 Resp: 179602
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.5 12.7

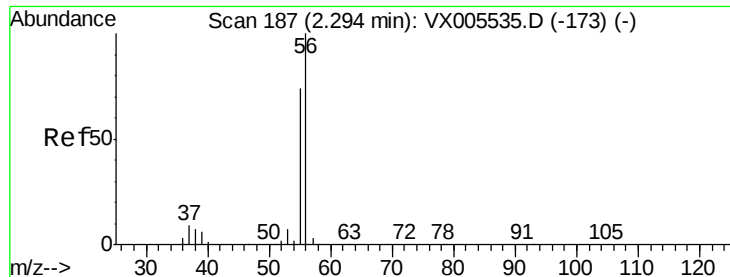


#12

1,1-Dichloroethene
 Concen: 48.171 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Tgt Ion: 96 Resp: 98402
 Ion Ratio Lower Upper
 96 100
 61 189.6 131.8 197.8
 98 64.6 53.4 80.2

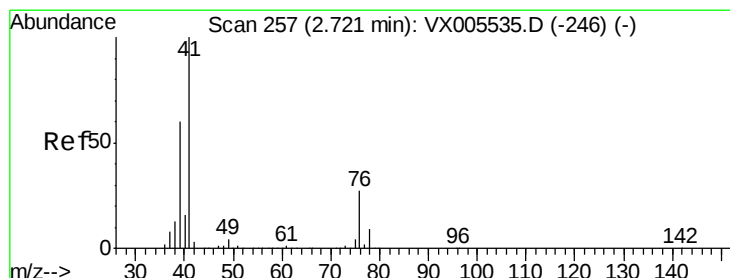
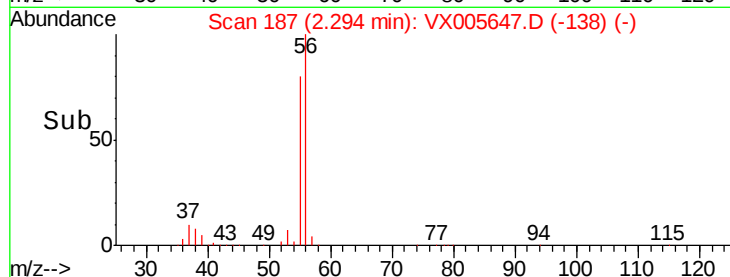
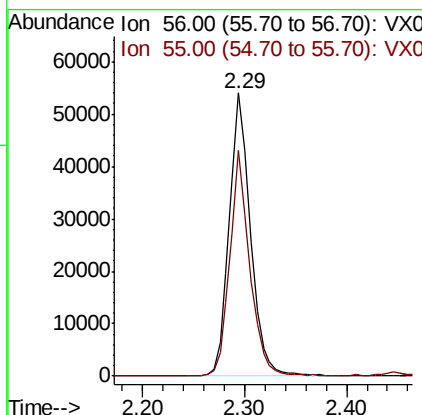
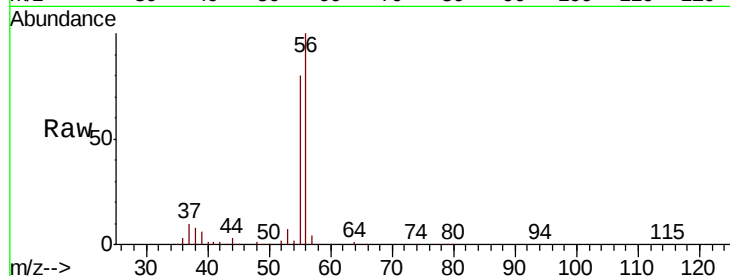




#13
Acrolein
Concen: 213.514 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

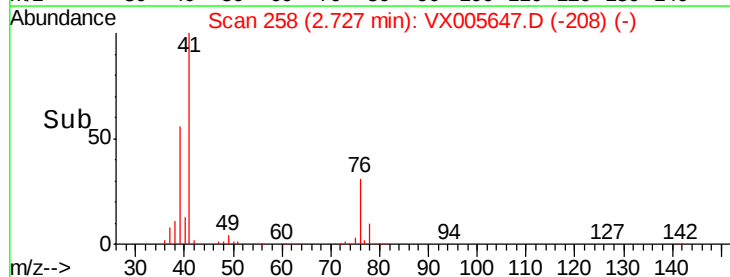
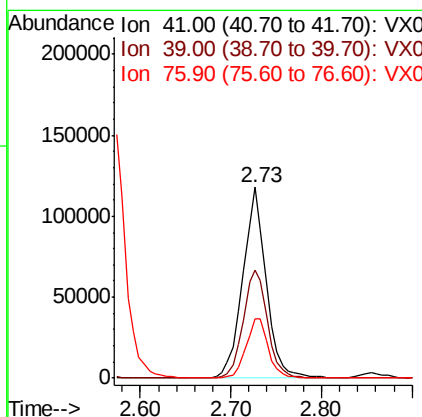
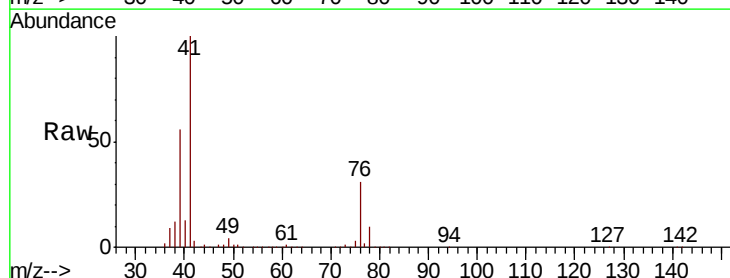
Instrument :
MSVOA_X
ClientSampleId :
FT-PZ459I-20181025MS

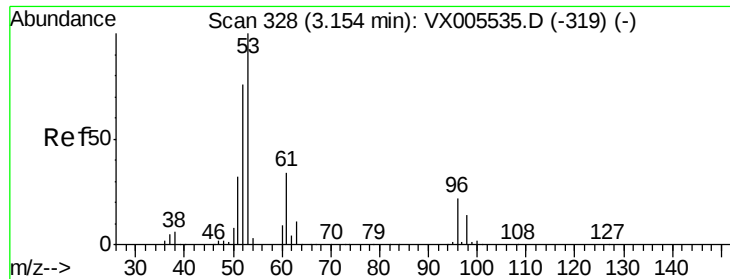
Tot Ion: 56 Resp: 77857
Ion Ratio Lower Upper
56 100
55 74.3 57.3 85.9



#14
Allyl chloride
Concen: 46.024 ug/l
RT: 2.73 min Scan# 258
Delta R.T. 0.01 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Tgt Ion: 41 Resp: 209828
Ion Ratio Lower Upper
41 100
39 58.4 48.2 72.4
76 29.4 21.9 32.9





#15

Acrylonitrile

Concen: 263.235 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

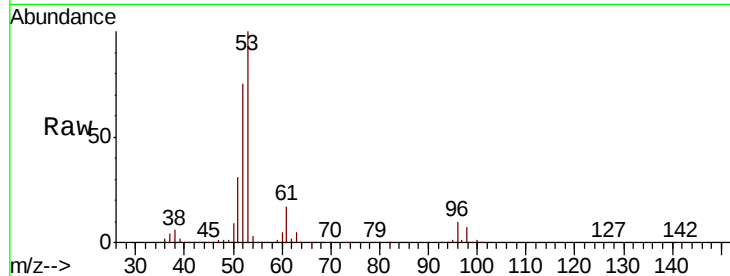
Tot Ion: 53 Resp: 421952

Ion Ratio Lower Upper

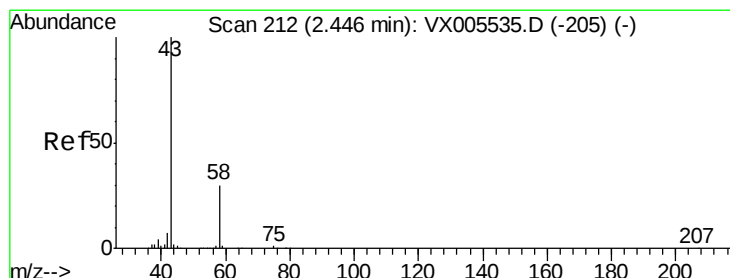
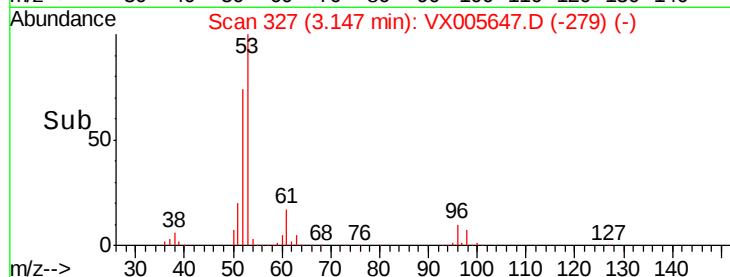
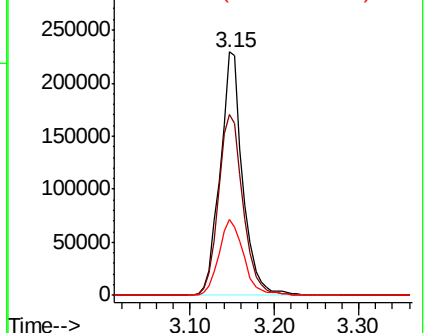
53 100

52 80.9 66.6 99.8

51 34.3 28.4 42.6



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 263.613 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005647.D

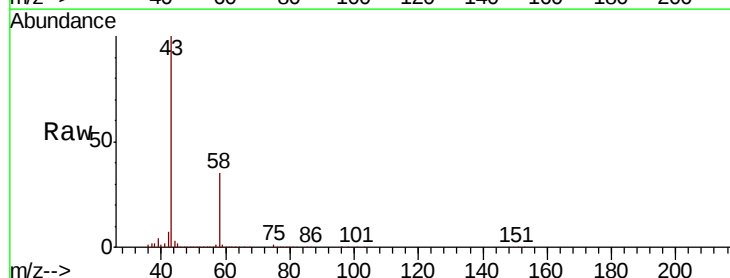
Acq: 27 Oct 2018 10:53

Tgt Ion: 43 Resp: 370034

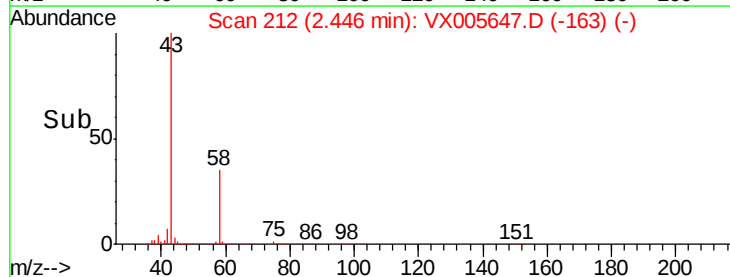
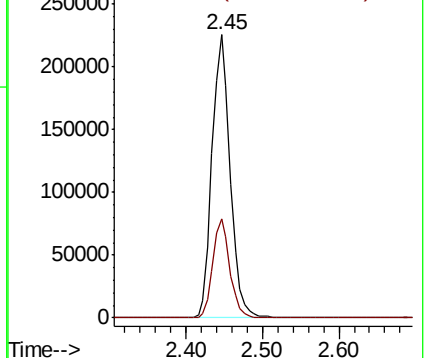
Ion Ratio Lower Upper

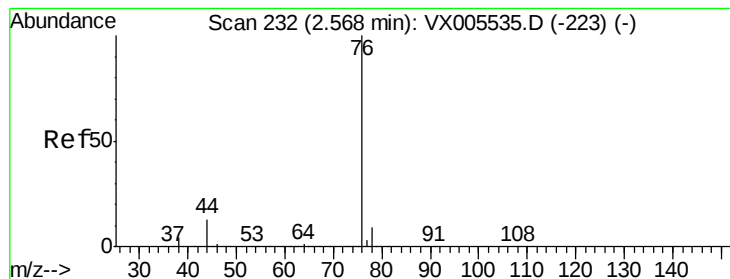
43 100

58 34.8 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 48.738 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

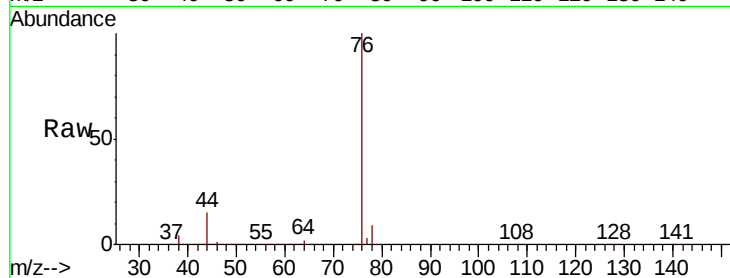
FT-PZ459I-20181025MS

Tot Ion: 76 Resp: 303494

Ion Ratio Lower Upper

76 100

78 8.7 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

200000

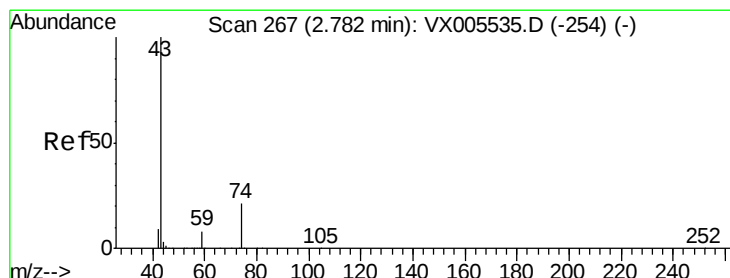
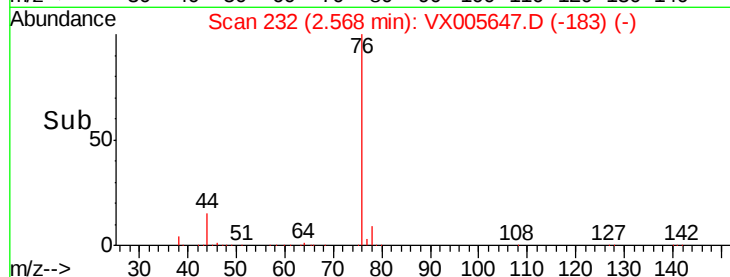
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 58.600 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005647.D

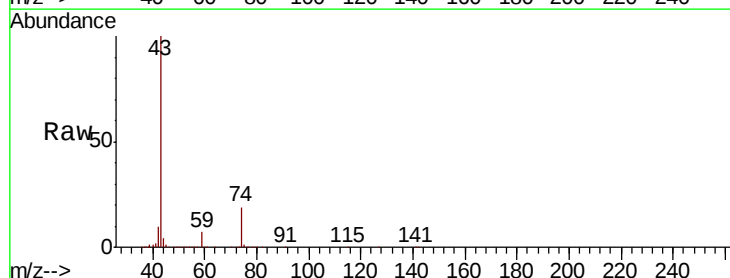
Acq: 27 Oct 2018 10:53

Tgt Ion: 43 Resp: 202335

Ion Ratio Lower Upper

43 100

74 21.0 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

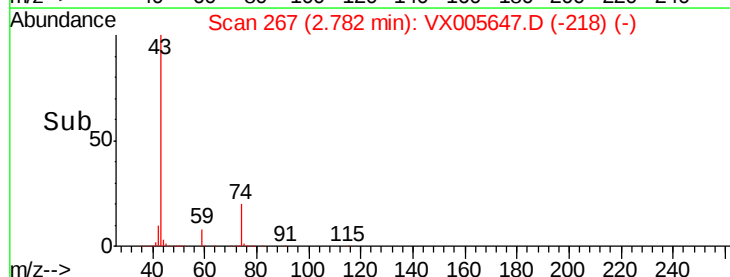
2.78

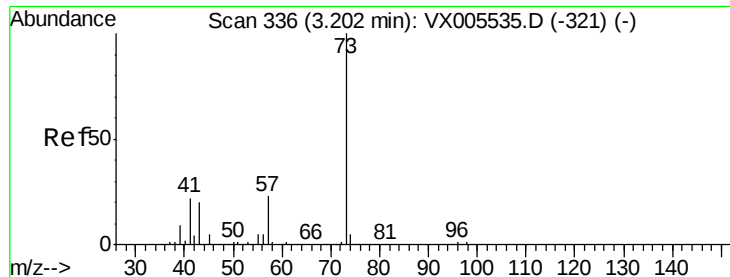
100000

50000

0

Time-->

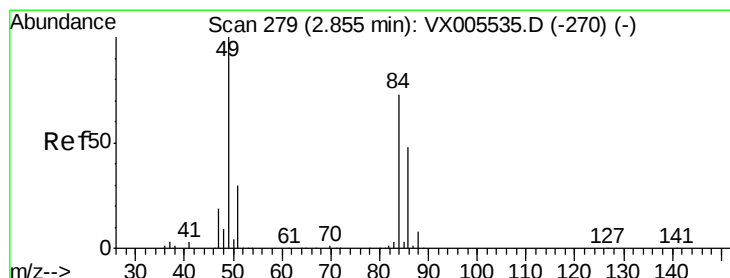
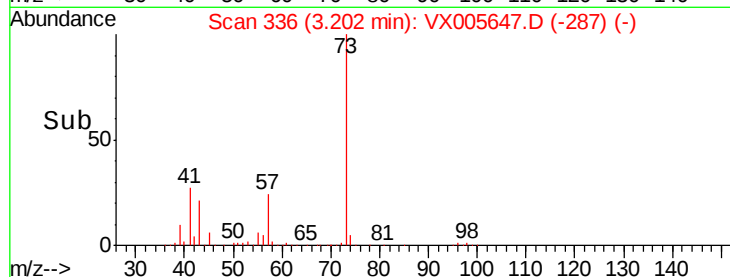
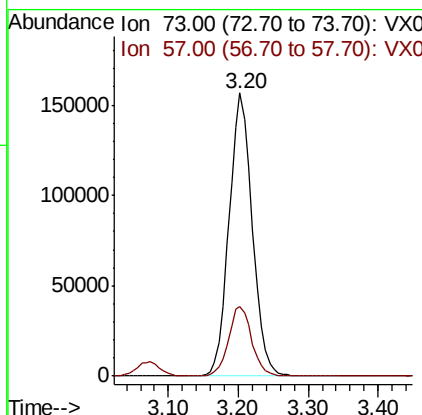
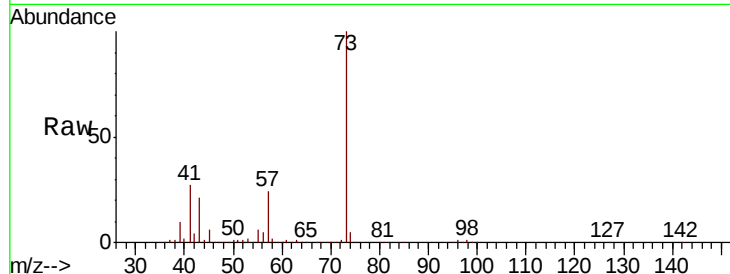




#19
Methyl tert-butyl Ether
Concen: 49.491 ug/l
RT: 3.20 min Scan# 336
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

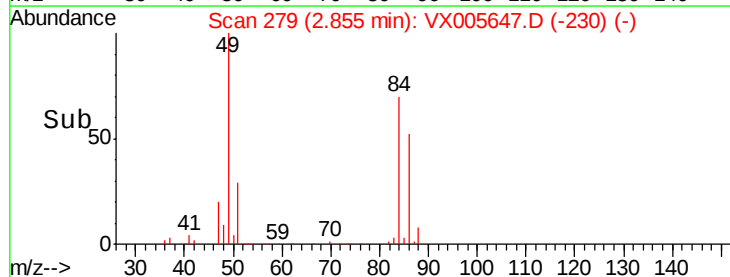
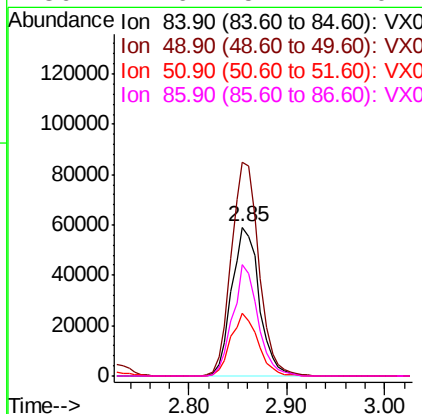
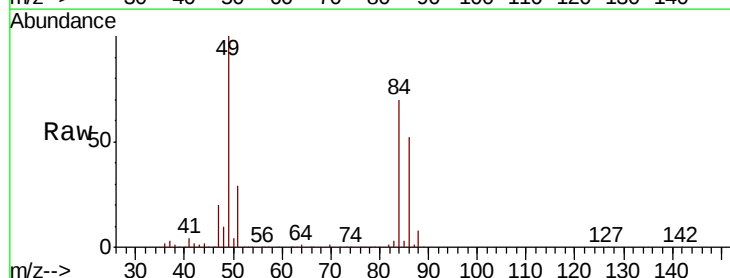
Instrument :
MSVOA_X
ClientSampleId :
FT-PZ459I-20181025MS

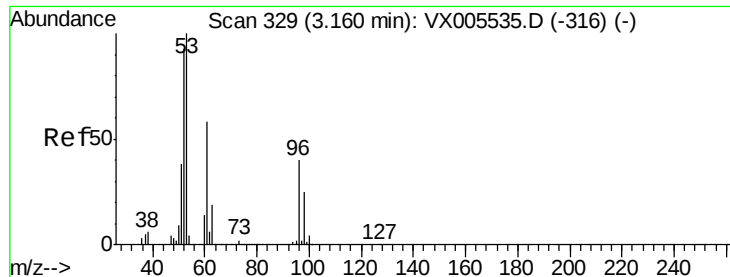
Tot Ion: 73 Resp: 360632
Ion Ratio Lower Upper
73 100
57 24.4 18.8 28.2



#20
Methylene Chloride
Concen: 49.283 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Tgt Ion: 84 Resp: 115863
Ion Ratio Lower Upper
84 100
49 143.5 109.5 164.3
51 42.2 33.3 49.9
86 74.6 52.7 79.1





#21

trans-1,2-Dichloroethene

Concen: 49.557 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

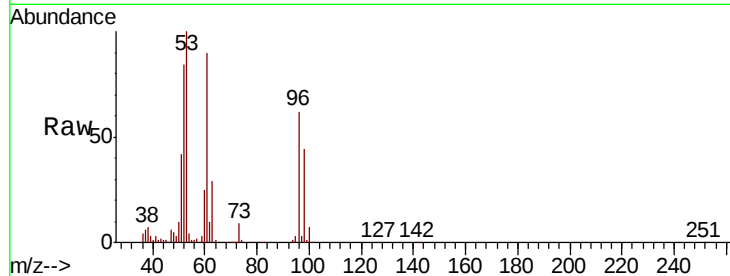
Tot Ion: 96 Resp: 110533

Ion Ratio Lower Upper

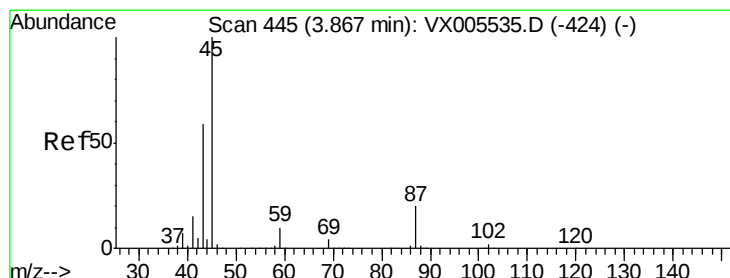
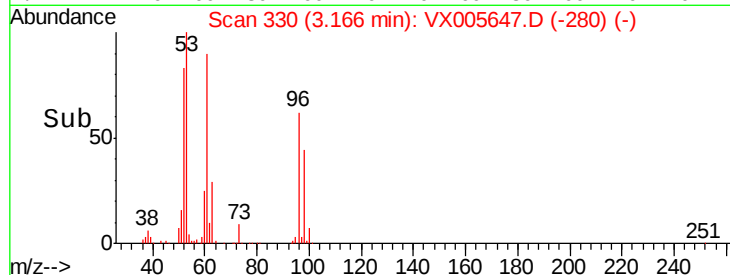
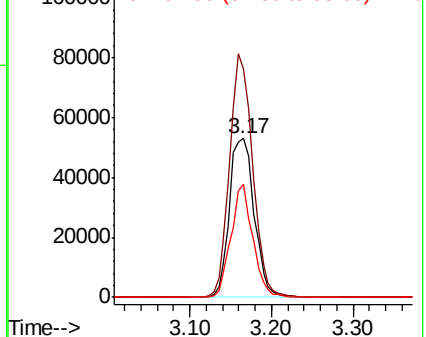
96 100

61 143.9 115.6 173.4

98 70.8 50.2 75.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 50.710 ug/l

RT: 3.87 min Scan# 445

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Tgt Ion: 45 Resp: 403730

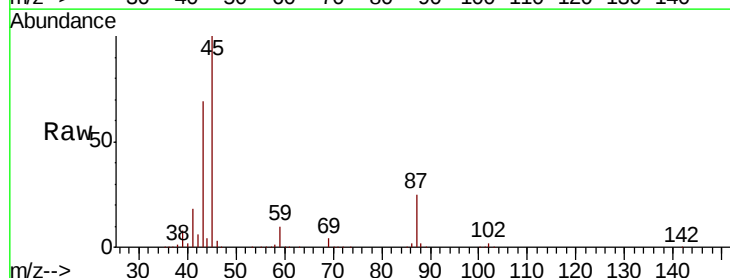
Ion Ratio Lower Upper

45 100

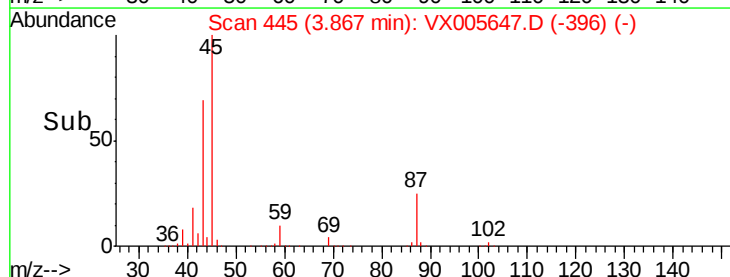
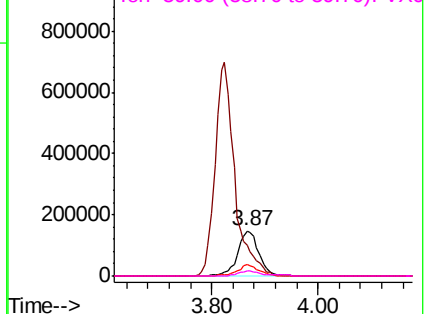
43 68.6 47.4 71.2

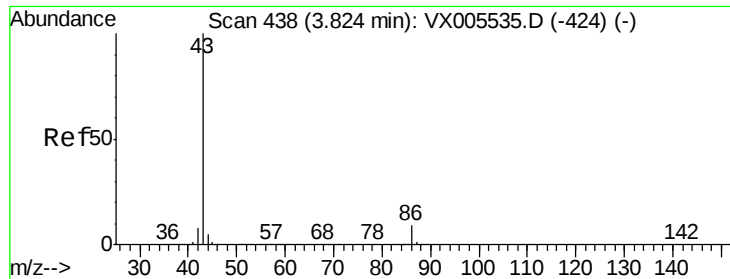
87 24.9 15.9 23.9#

59 10.4 7.7 11.5



Abundance Ion 45.00 (44.70 to 45.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 87.00 (86.70 to 87.70): VX0
Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 256.634 ug/l

RT: 3.82 min Scan# 438

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

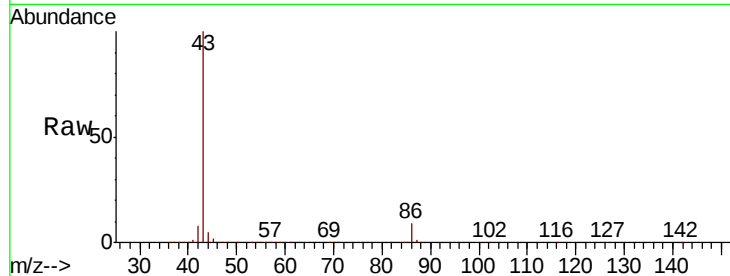
FT-PZ459I-20181025MS

Tot Ion: 43 Resp: 1799446

Ion Ratio Lower Upper

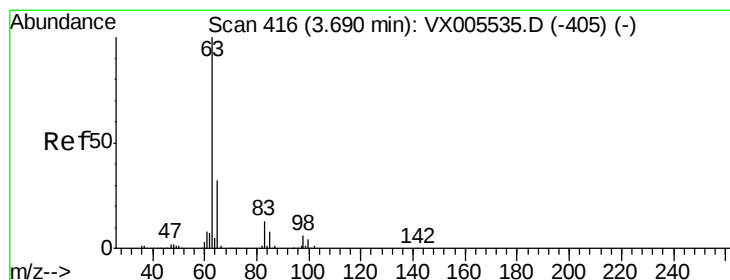
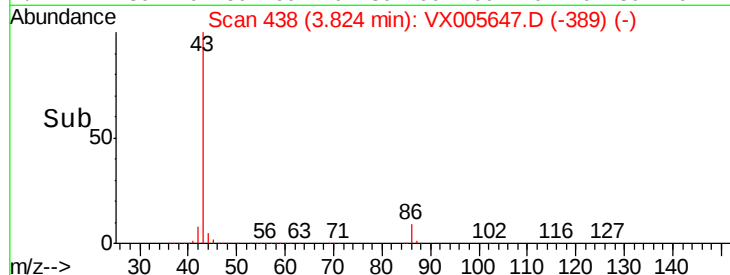
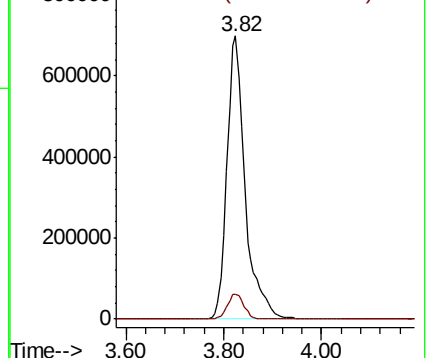
43 100

86 8.8 7.4 11.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 51.546 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.01 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

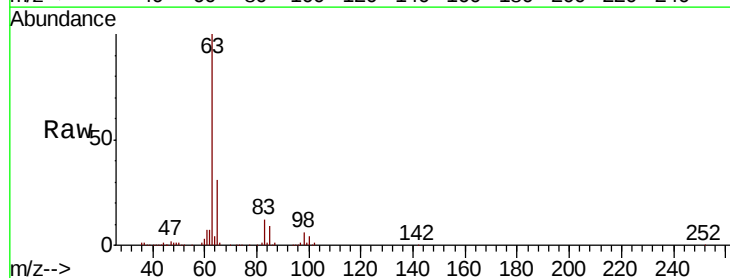
Tgt Ion: 63 Resp: 223115

Ion Ratio Lower Upper

63 100

98 5.9 3.2 9.6

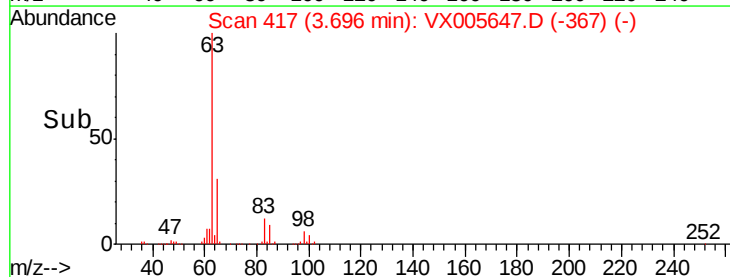
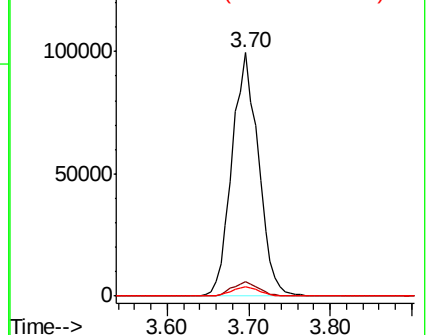
100 3.7 2.1 6.2

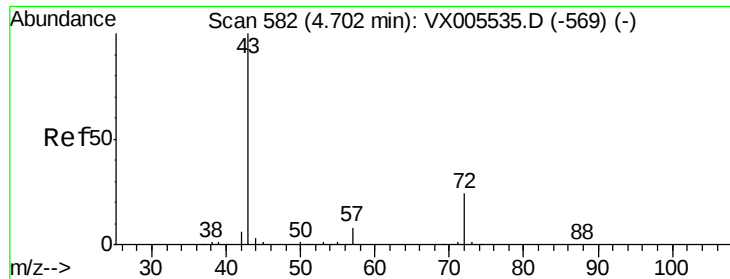


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 283.409 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

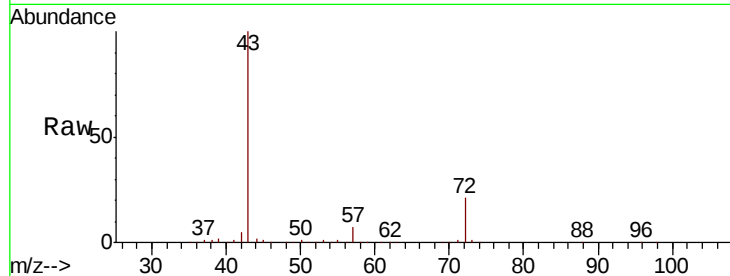
FT-PZ459I-20181025MS

Tot Ion: 43 Resp: 605803

Ion Ratio Lower Upper

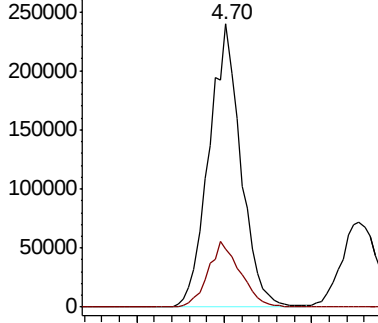
43 100

72 20.5 19.2 28.8

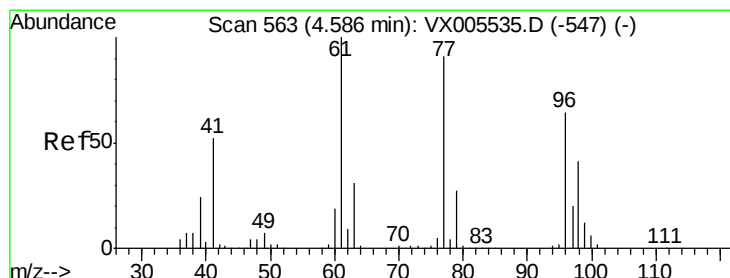
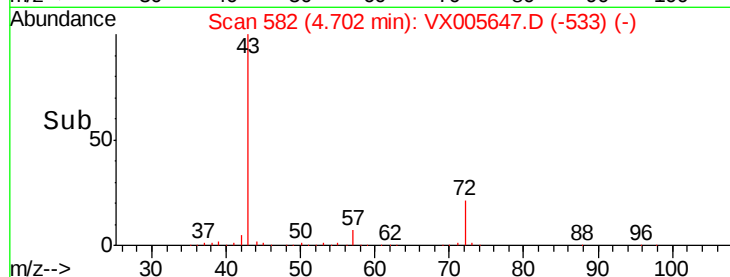


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#26

2,2-Dichloropropane

Concen: 29.045 ug/l

RT: 4.58 min Scan# 562

Delta R.T. -0.01 min

Lab File: VX005647.D

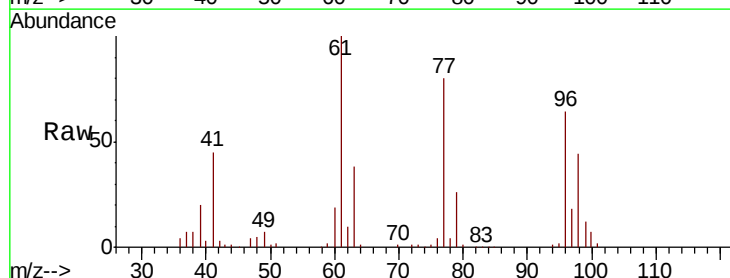
Acq: 27 Oct 2018 10:53

Tgt Ion: 77 Resp: 97061

Ion Ratio Lower Upper

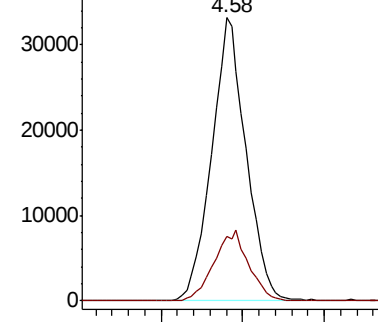
77 100

97 25.0 11.5 34.5

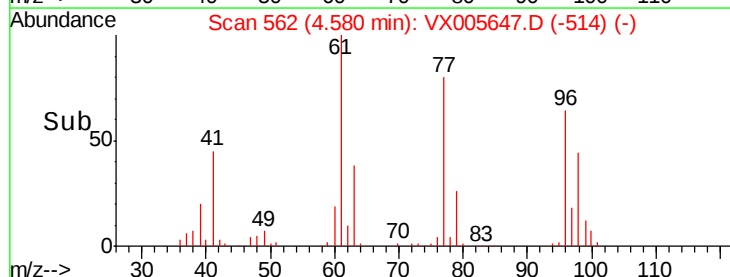


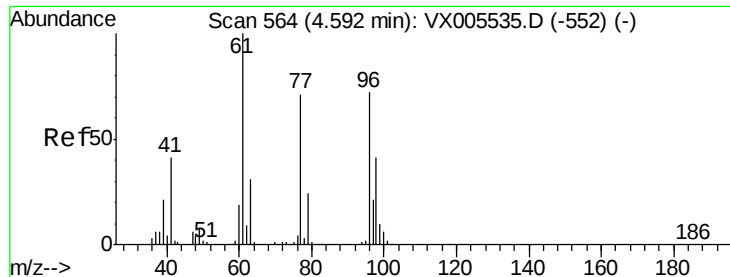
Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



Time-->



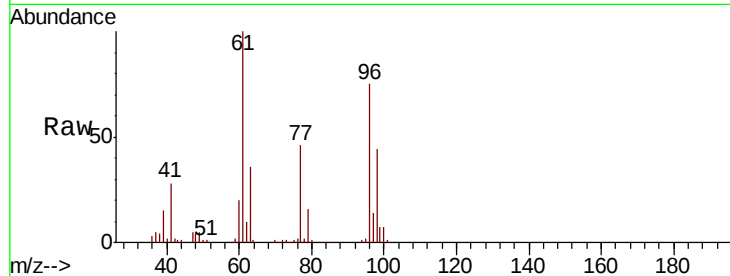


#27

cis-1,2-Dichloroethene
 Concen: 50.213 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.00 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ459I-20181025MS

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.9	0.0	304.6
98	62.5	0.0	127.4

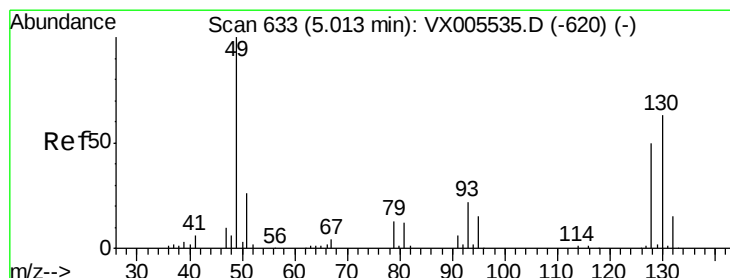
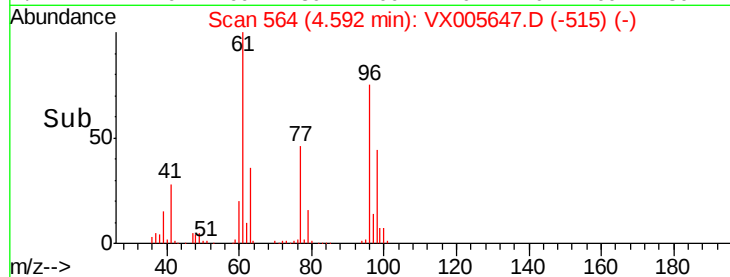
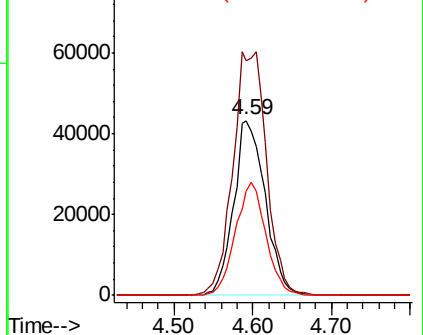


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

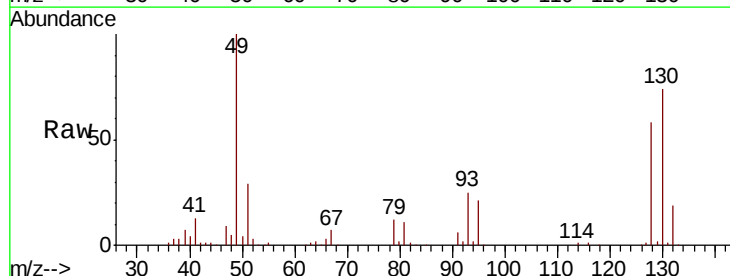
Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane
 Concen: 53.410 ug/l
 RT: 5.02 min Scan# 634
 Delta R.T. 0.01 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	72.3	58.9	88.3

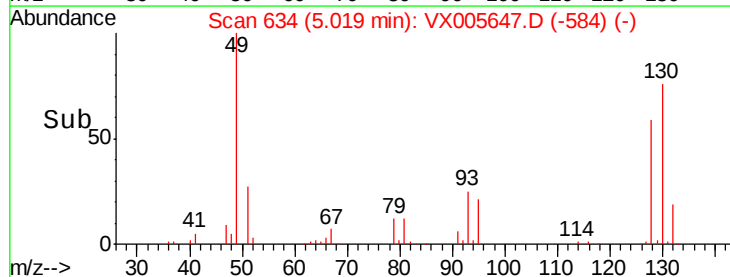
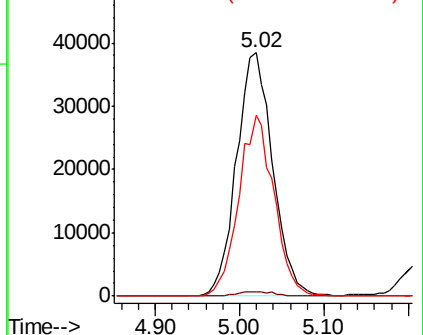


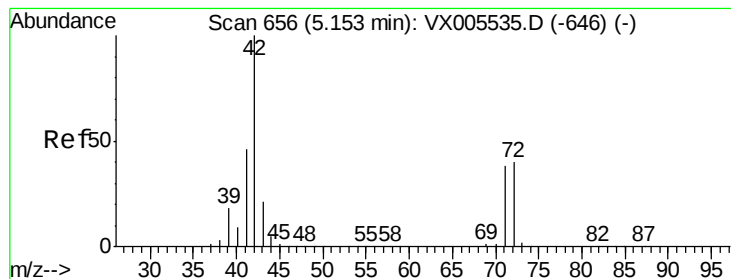
Abundance

Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 264.177 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

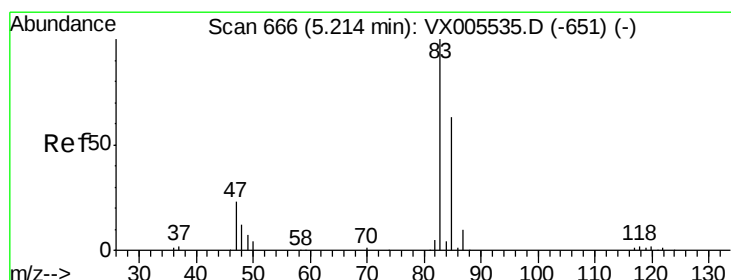
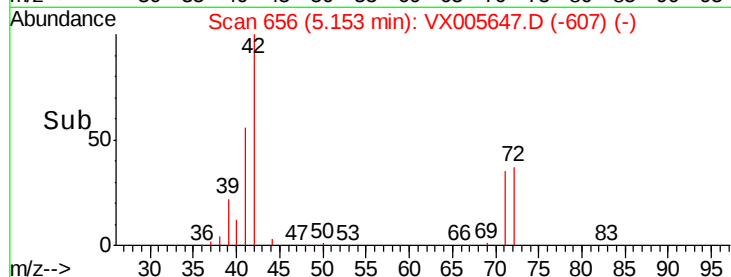
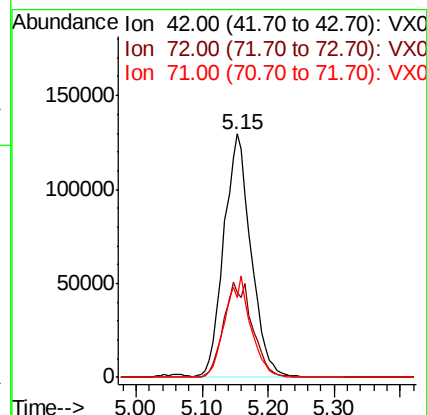
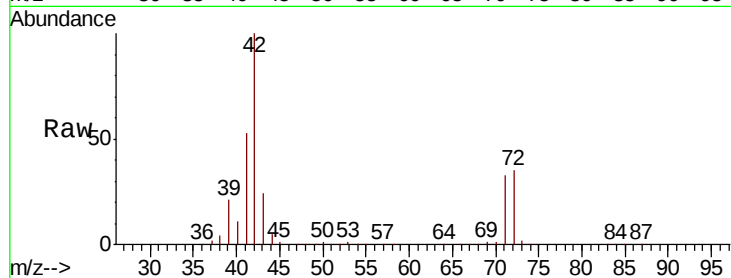
Tot Ion: 42 Resp: 367489

Ion Ratio Lower Upper

42 100

72 41.8 32.0 48.0

71 39.3 29.8 44.8



#30

Chloroform

Concen: 52.067 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.01 min

Lab File: VX005647.D

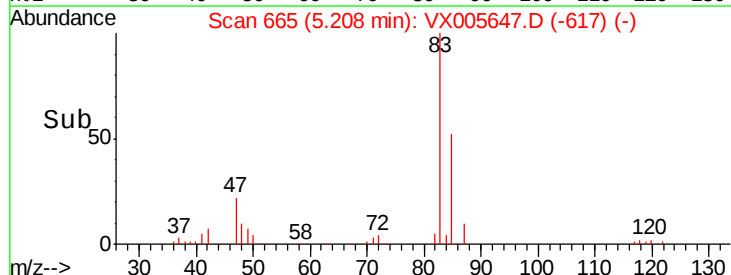
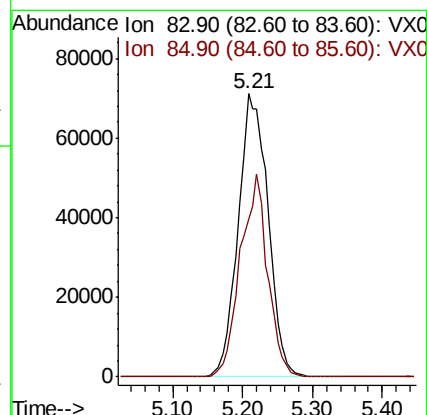
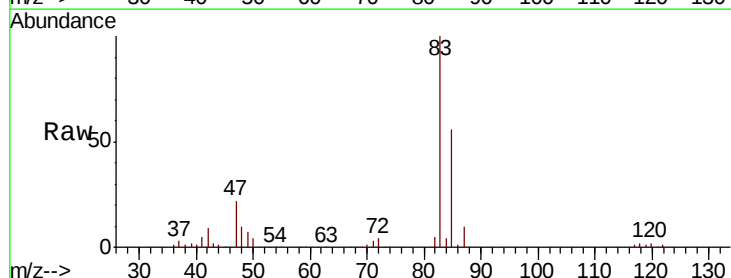
Acq: 27 Oct 2018 10:53

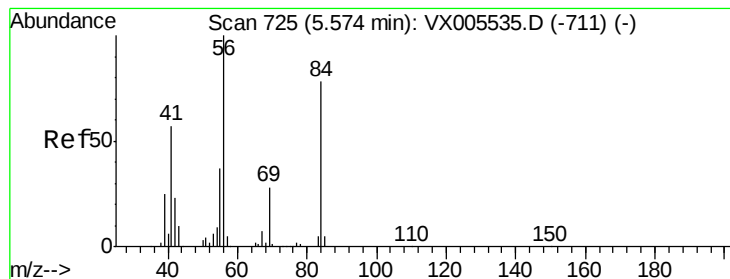
Tgt Ion: 83 Resp: 210815

Ion Ratio Lower Upper

83 100

85 55.7 50.6 76.0





#31

Cyclohexane

Concen: 51.162 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

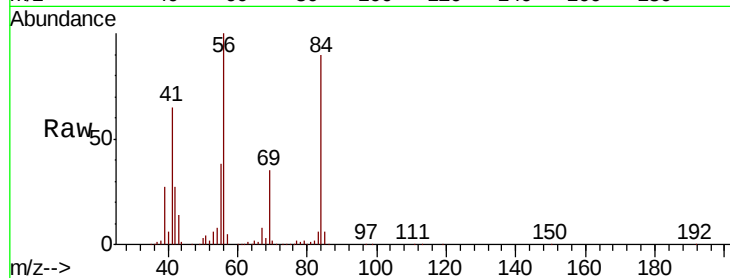
Tot Ion: 56 Resp: 183231

Ion Ratio Lower Upper

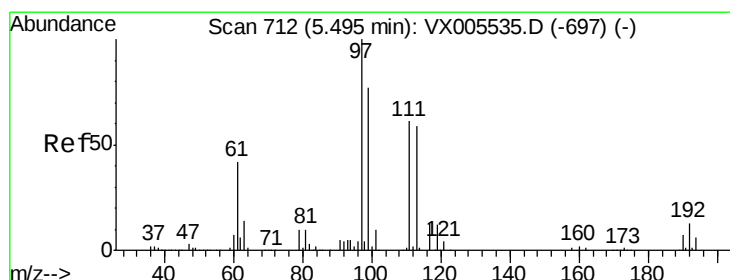
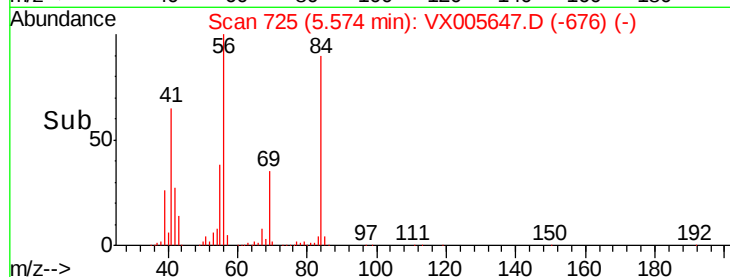
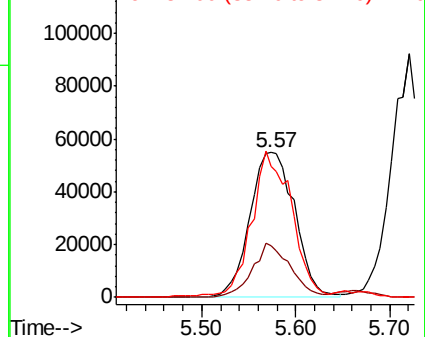
56 100

69 35.3 22.6 34.0#

84 88.9 62.7 94.1



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 48.666 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

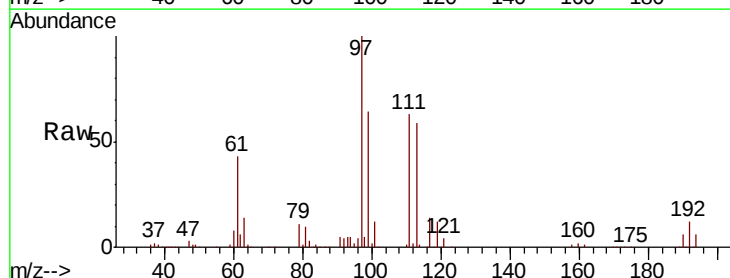
Tgt Ion: 97 Resp: 173911

Ion Ratio Lower Upper

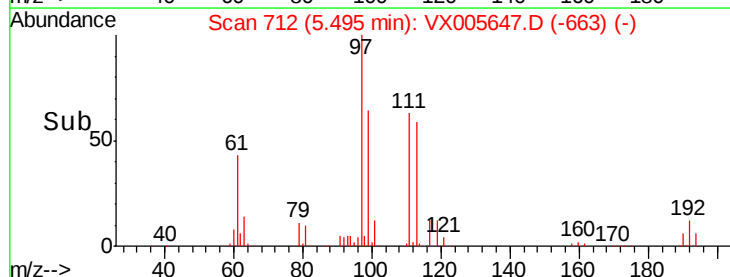
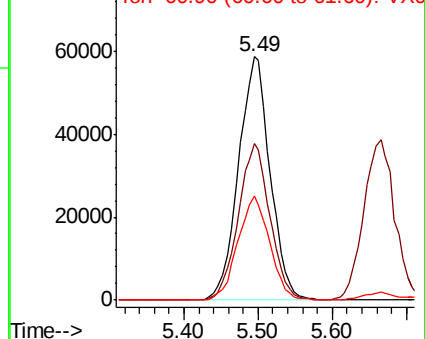
97 100

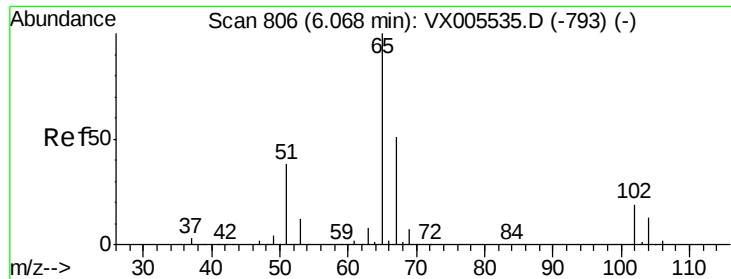
99 64.3 52.3 78.5

61 43.2 35.2 52.8



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0

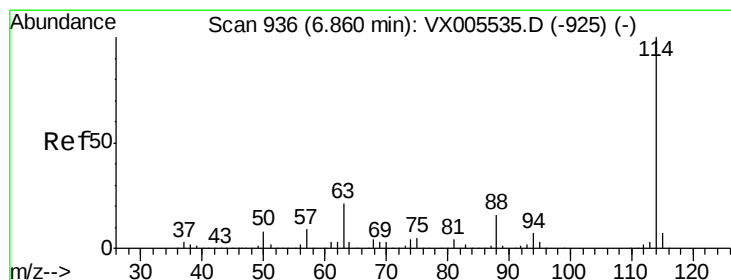
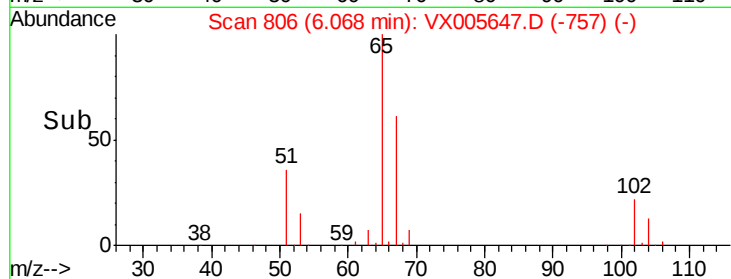
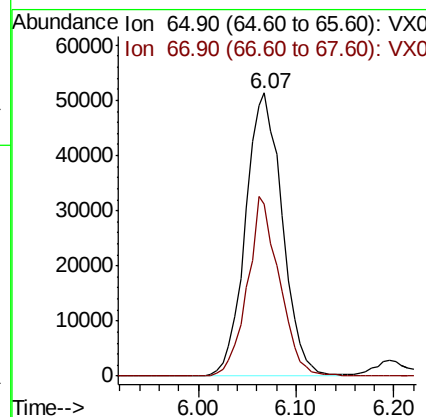
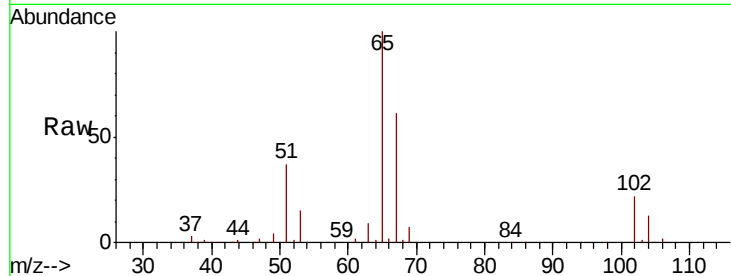




#33
 1,2-Dichloroethane-d4
 Concen: 50.344 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

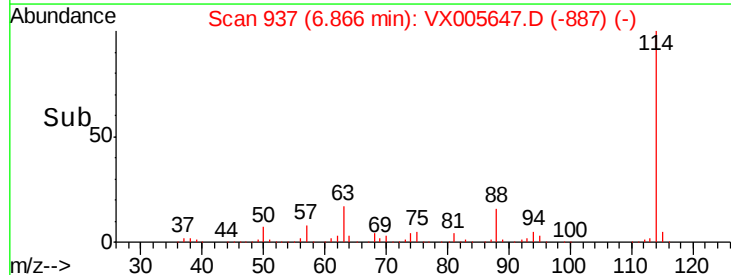
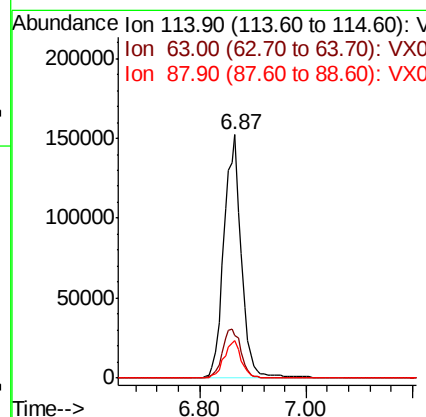
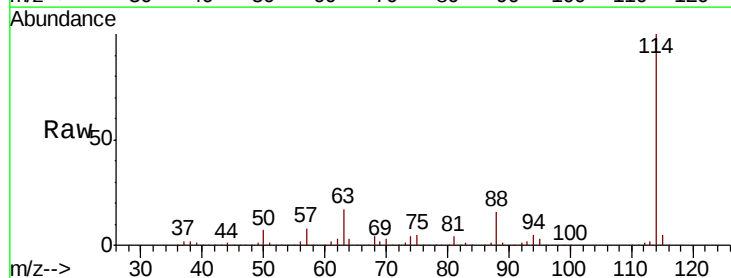
Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ459I-20181025MS

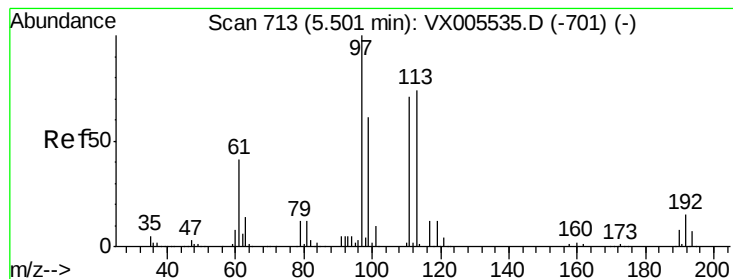
Tot Ion: 65 Resp: 133735
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Tgt Ion: 114 Resp: 350136
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 42.8
 88 15.7 0.0 31.2





#35

Dibromofluoromethane

Concen: 46.657 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

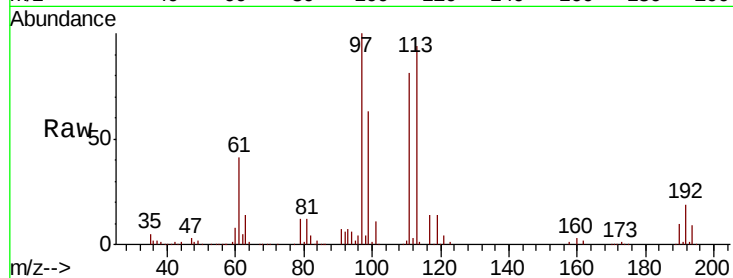
Tot Ion:113 Resp: 110615

Ion Ratio Lower Upper

113 100

111 98.5 82.3 123.5

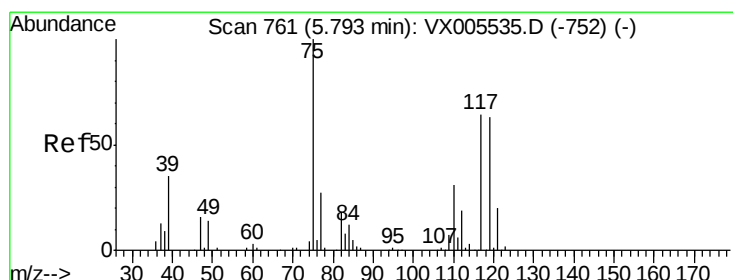
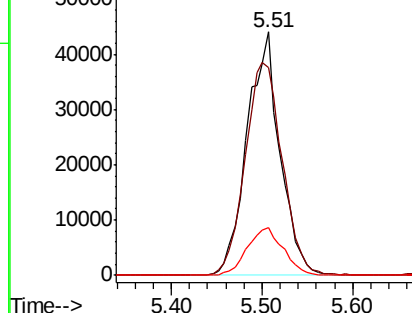
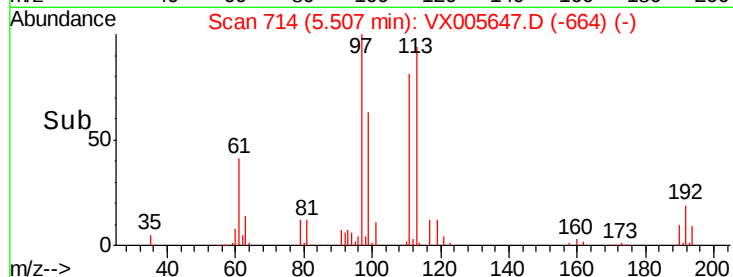
192 21.5 17.9 26.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 47.122 ug/l

RT: 5.79 min Scan# 761

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

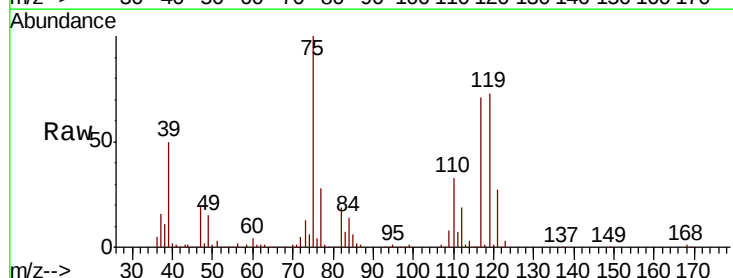
Tgt Ion: 75 Resp: 160118

Ion Ratio Lower Upper

75 100

110 34.9 17.4 52.2

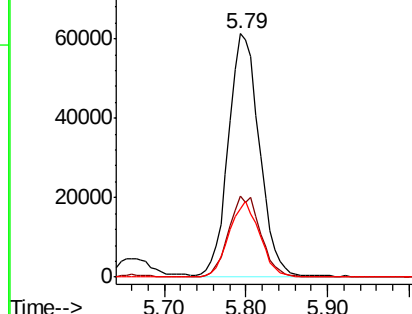
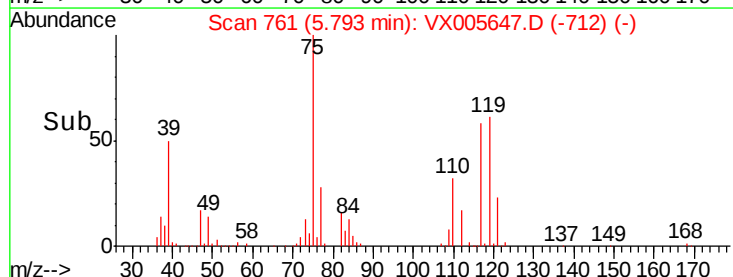
77 30.8 25.8 38.6

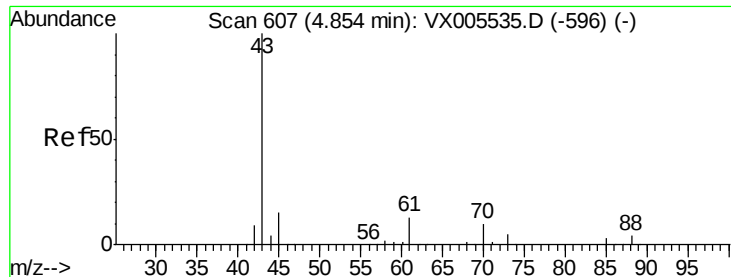


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

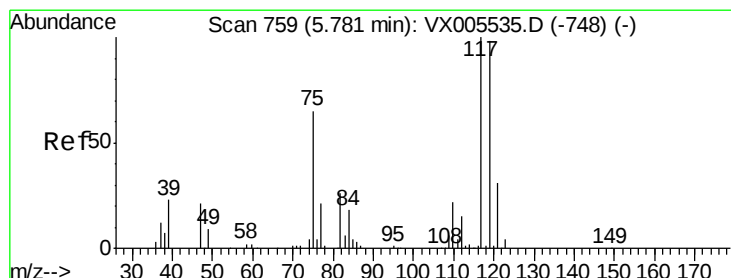
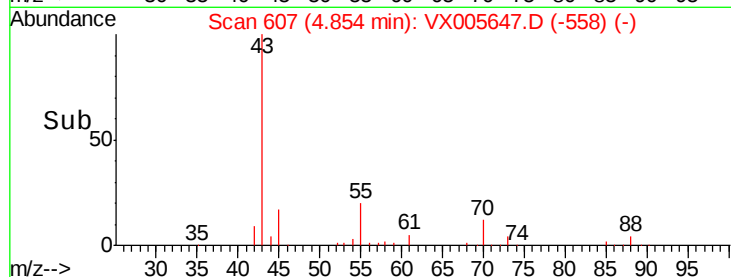
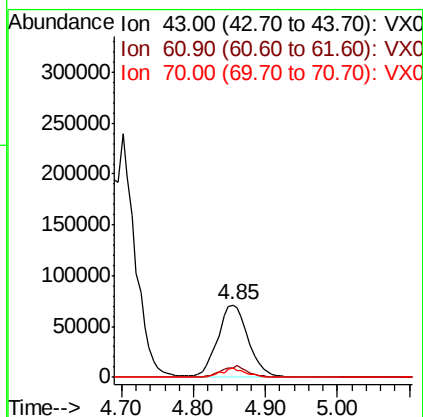
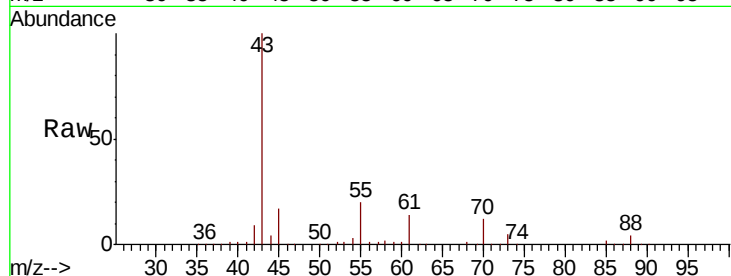




#37
Ethyl Acetate
Concen: 48.513 ug/l
RT: 4.85 min Scan# 607
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

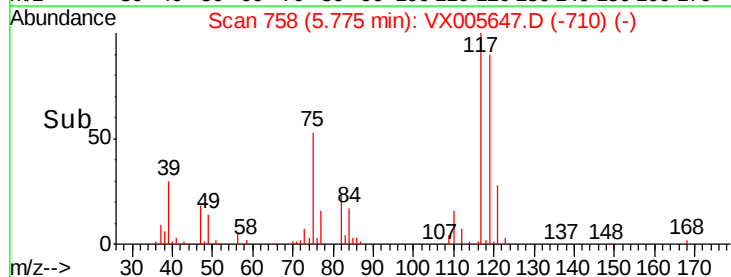
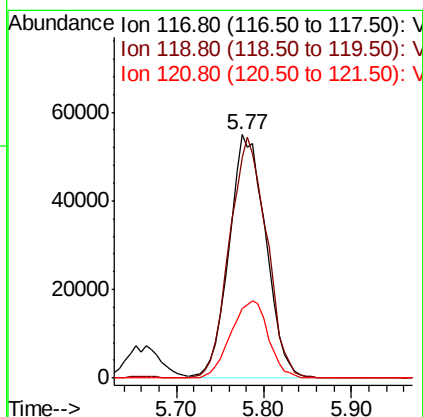
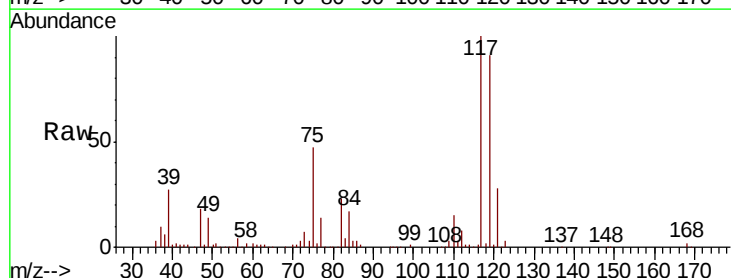
Instrument :
MSVOA_X
ClientSampleId :
FT-PZ459I-20181025MS

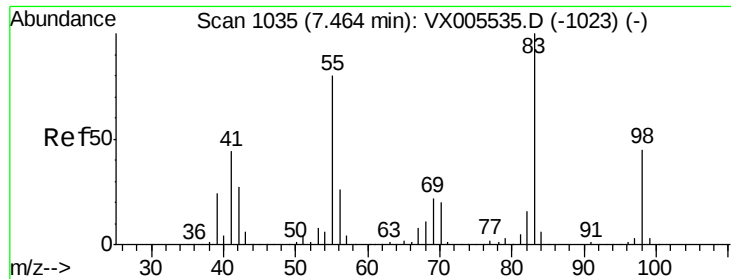
Tot Ion: 43 Resp: 210352
Ion Ratio Lower Upper
43 100
61 14.2 10.8 16.2
70 10.3 7.8 11.8



#38
Carbon Tetrachloride
Concen: 44.690 ug/l
RT: 5.77 min Scan# 758
Delta R.T. -0.01 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Tgt Ion: 117 Resp: 159937
Ion Ratio Lower Upper
117 100
119 90.5 78.1 117.1
121 28.5 24.6 36.8

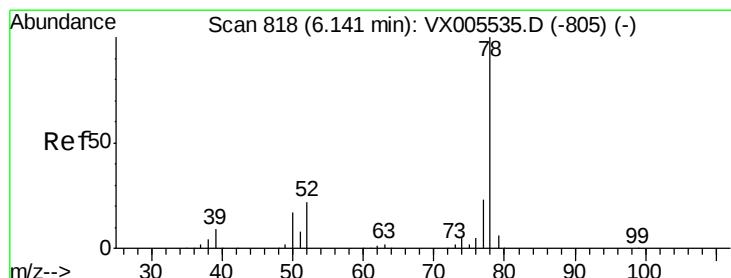
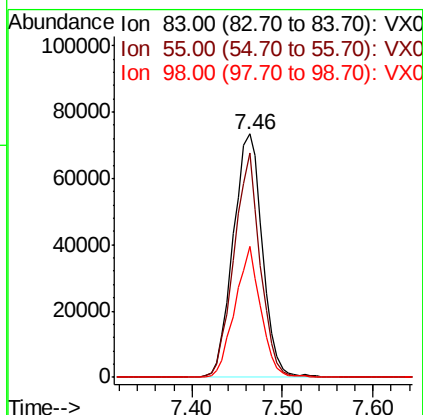
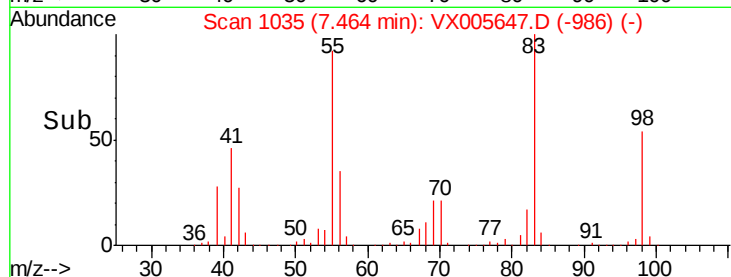
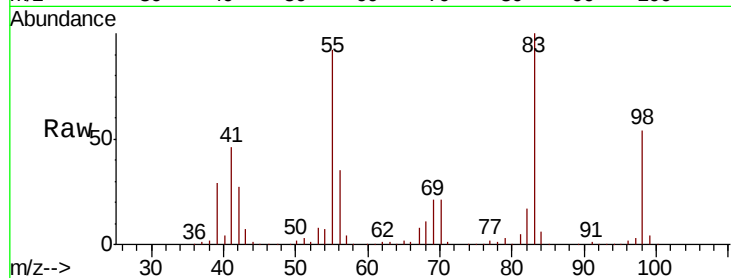




#39
Methvlcvclohexane
Concen: 43.728 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

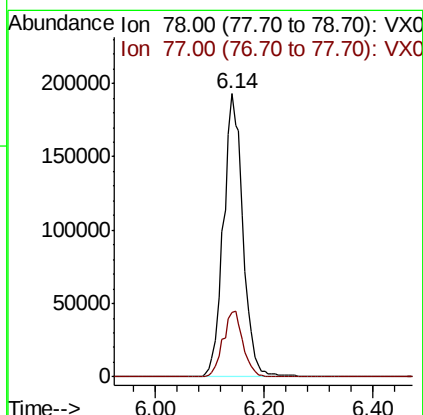
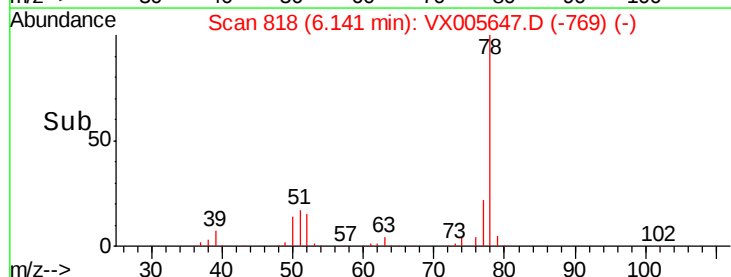
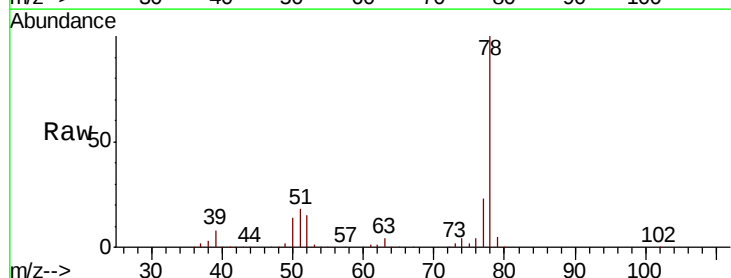
Instrument :
MSVOA_X
ClientSampleId :
FT-PZ459I-20181025MS

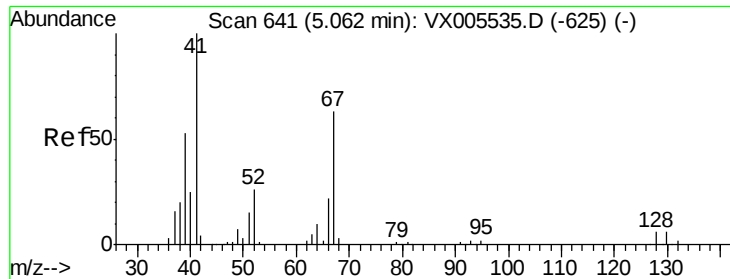
Tot Ion: 83 Resp: 164071
Ion Ratio Lower Upper
83 100
55 92.4 63.7 95.5
98 53.8 36.2 54.2



#40
Benzene
Concen: 49.389 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Tgt Ion: 78 Resp: 481074
Ion Ratio Lower Upper
78 100
77 22.6 18.4 27.6

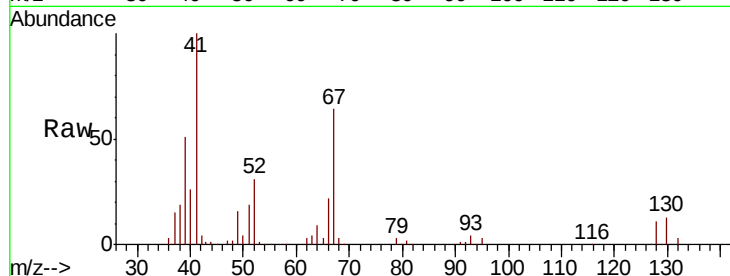




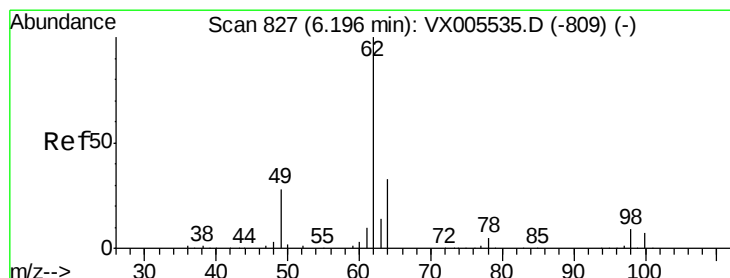
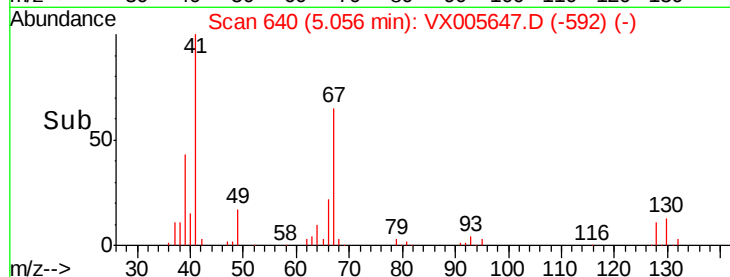
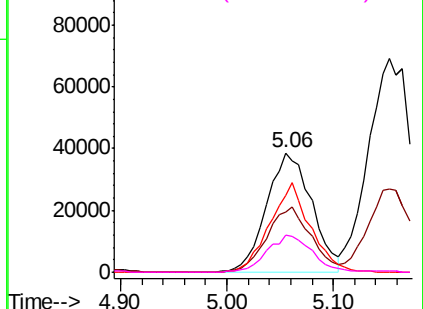
#41
Methacrylonitrile
Concen: 47.081 ug/l
RT: 5.06 min Scan# 640
Delta R.T. -0.01 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
FT-PZ459I-20181025MS

Tot Ion:	41	Resp:	113716
Ion	Ratio	Lower	Upper
41	100		
39	53.3	42.2	63.2
67	66.9	53.4	80.0
52	30.3	23.4	35.2

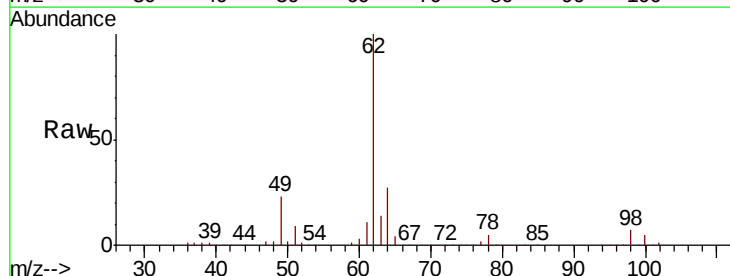


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0

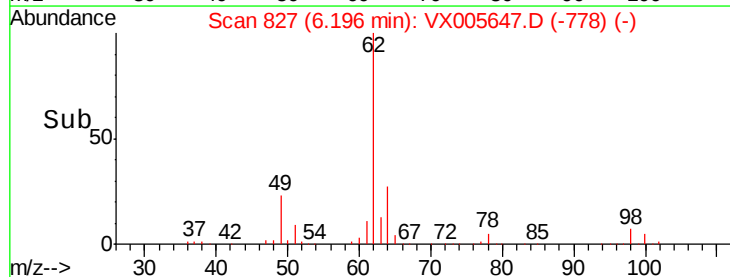
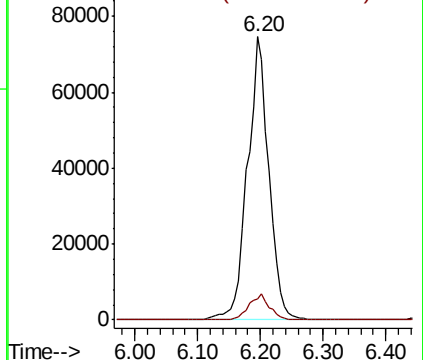


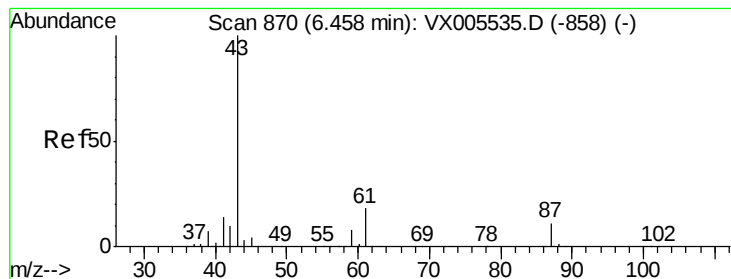
#42
1,2-Dichloroethane
Concen: 47.512 ug/l
RT: 6.20 min Scan# 827
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Tgt Ion:	62	Resp:	175810
Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.8



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



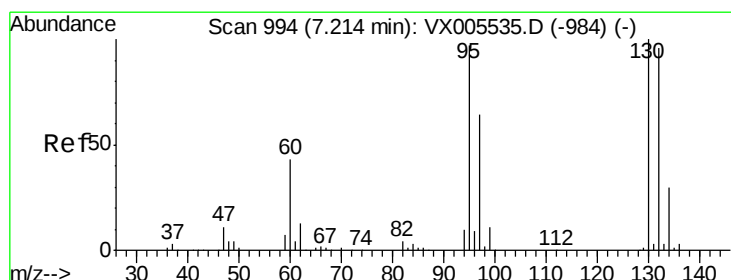
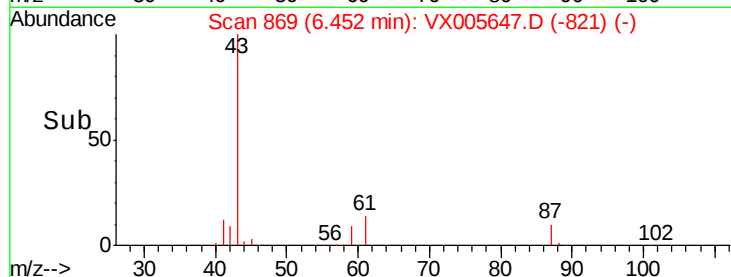
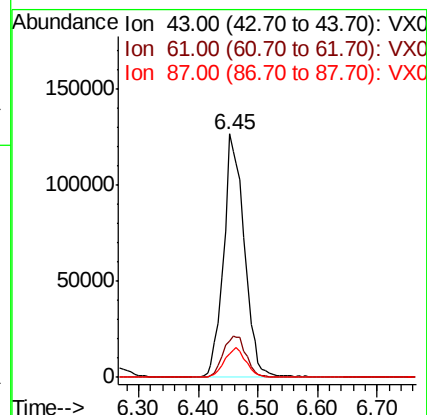
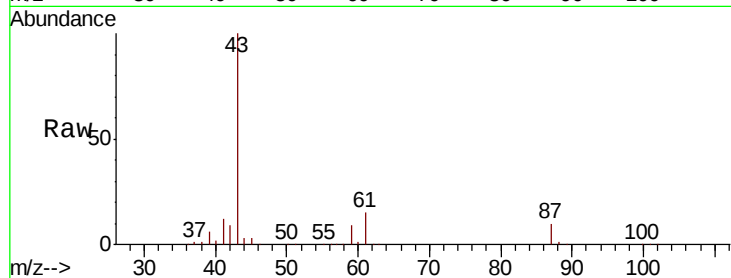


#43

Isopropyl Acetate
 Concen: 47.038 ug/l
 RT: 6.45 min Scan# 869
 Delta R.T. -0.01 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ459I-20181025MS

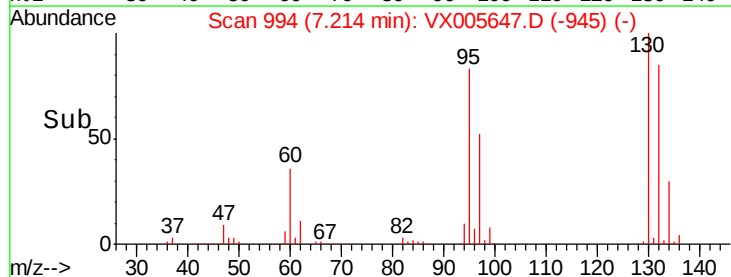
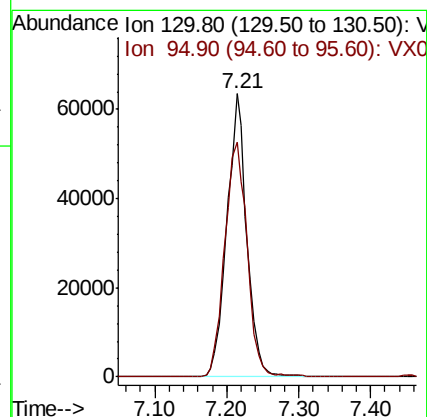
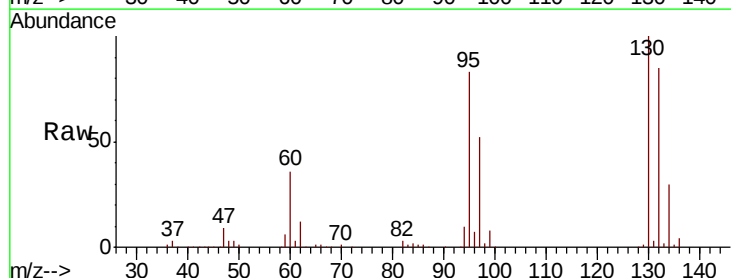
Tot Ion: 43 Resp: 305634
 Ion Ratio Lower Upper
 43 100
 61 19.2 14.6 22.0
 87 12.5 9.6 14.4



#44

Trichloroethene
 Concen: 46.201 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Tgt Ion:130 Resp: 122597
 Ion Ratio Lower Upper
 130 100
 95 83.1 0.0 194.2





#45

1,2-Dichloropropane

Concen: 43.961 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

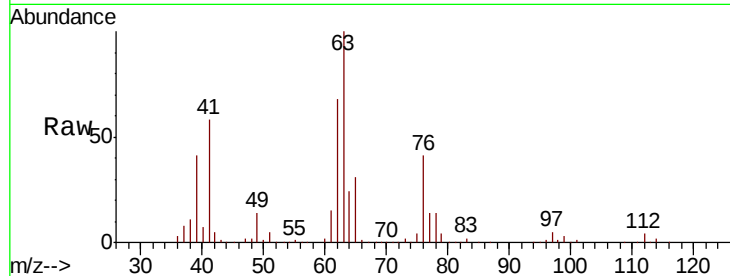
FT-PZ459I-20181025MS

Tot Ion: 63 Resp: 115124

Ion Ratio Lower Upper

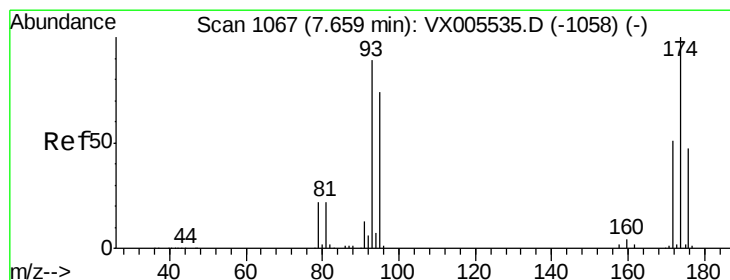
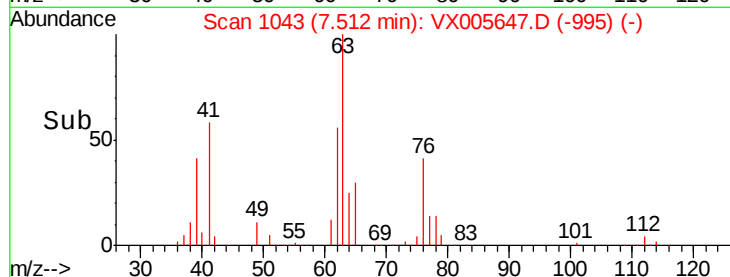
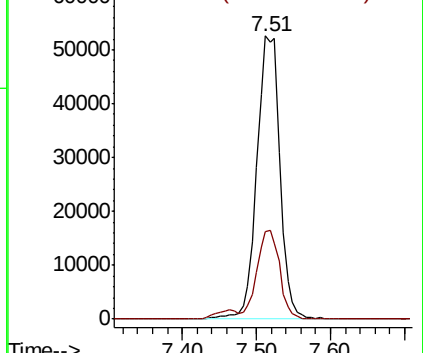
63 100

65 31.0 24.8 37.2



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#46

Dibromomethane

Concen: 43.590 ug/l

RT: 7.66 min Scan# 1068

Delta R.T. 0.01 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

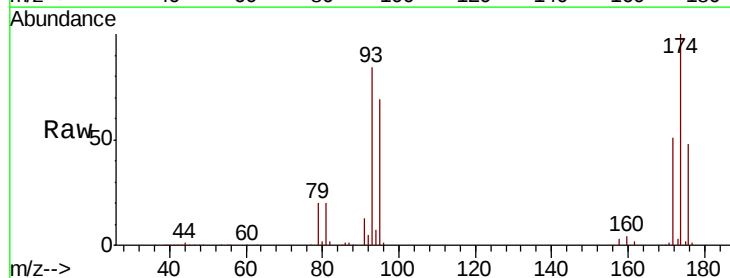
Tgt Ion: 93 Resp: 73727

Ion Ratio Lower Upper

93 100

95 81.4 67.4 101.0

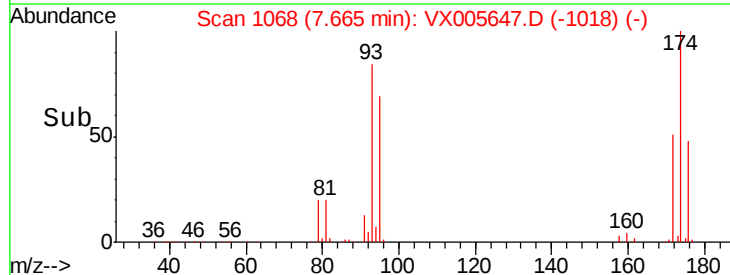
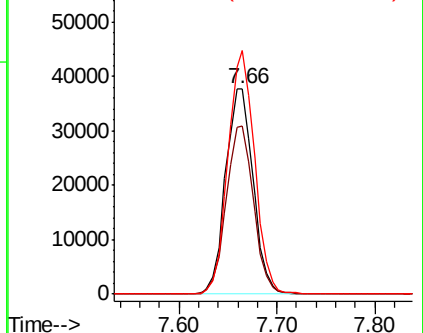
174 114.5 91.5 137.3

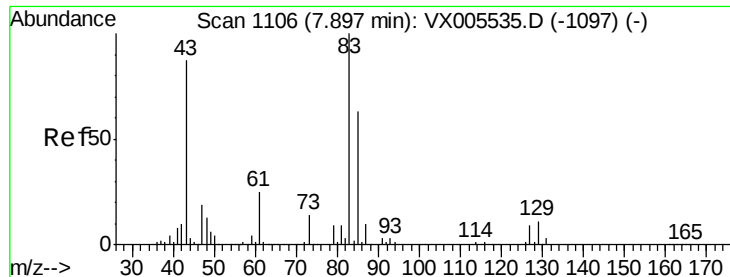


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 48.793 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

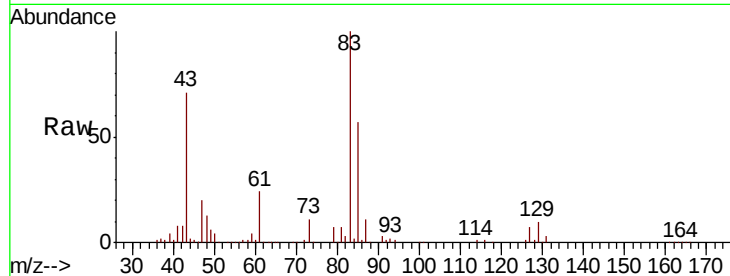
Tot Ion: 83 Resp: 160172

Ion Ratio Lower Upper

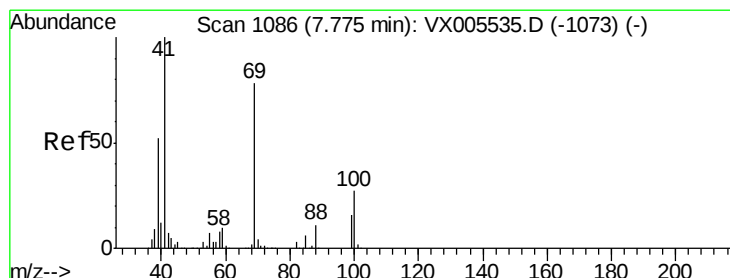
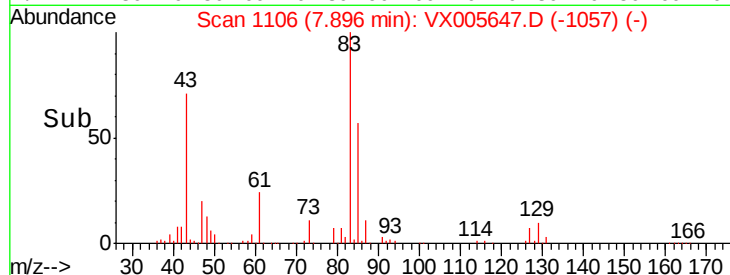
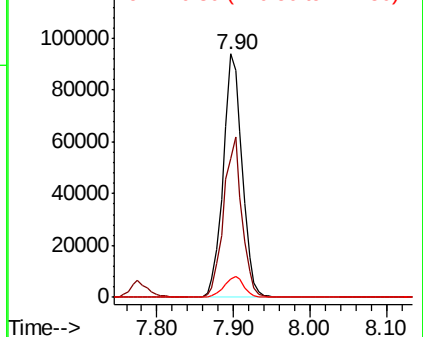
83 100

85 56.9 50.2 75.4

127 7.3 6.9 10.3



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 49.402 ug/l

RT: 7.77 min Scan# 1086

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

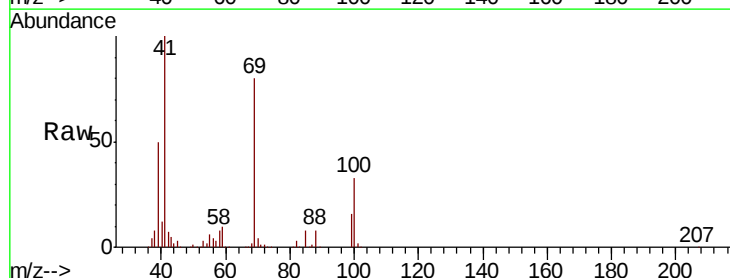
Tgt Ion: 41 Resp: 156375

Ion Ratio Lower Upper

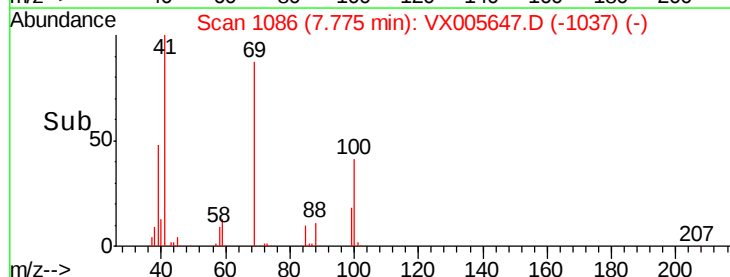
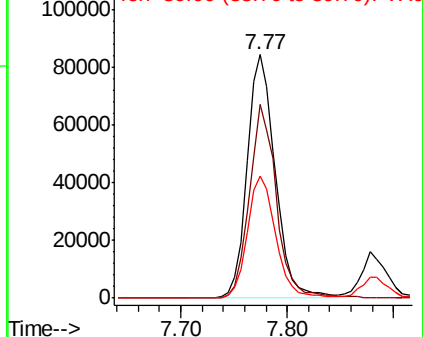
41 100

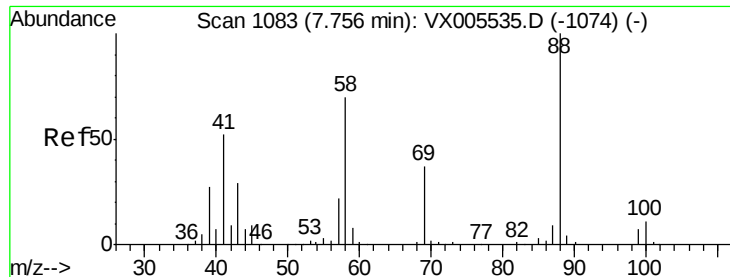
69 77.4 63.2 94.8

39 50.6 42.2 63.2



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

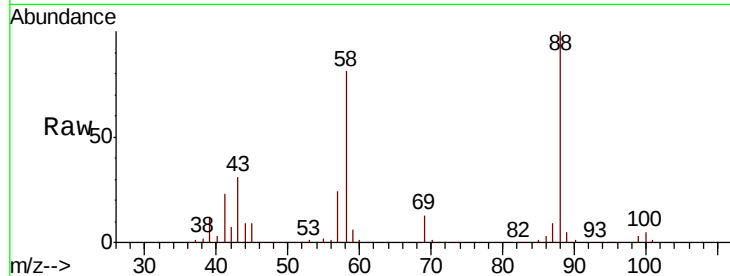




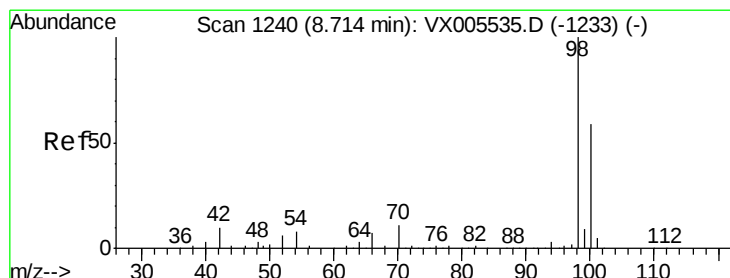
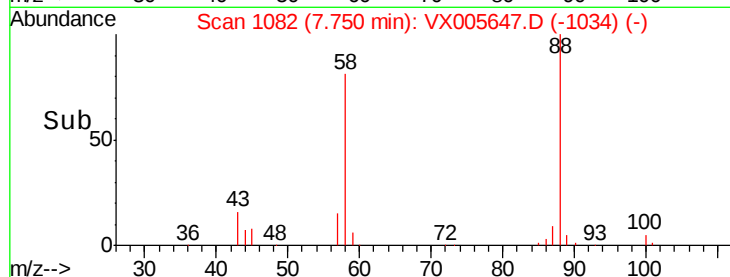
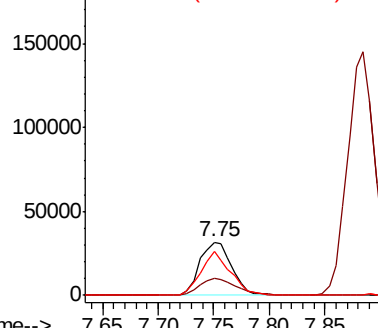
#49
 1,4-Dioxane
 Concen: 910.903 ug/l
 RT: 7.75 min Scan# 1082
 Delta R.T. -0.01 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ459I-20181025MS

Tot Ion: 88 Resp: 63011
 Ion Ratio Lower Upper
 88 100
 43 34.2 27.4 41.0
 58 76.5 59.4 89.2

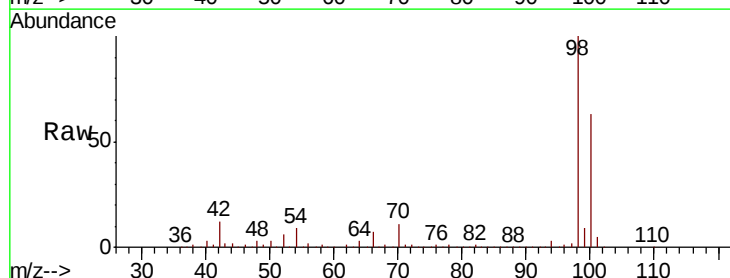


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

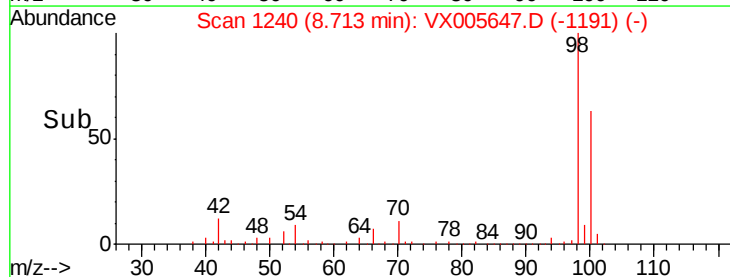
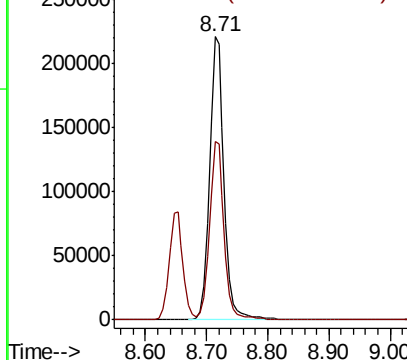


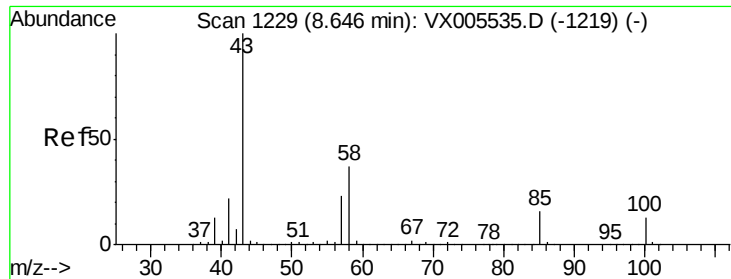
#50
 Toluene-d8
 Concen: 43.128 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Tgt Ion: 98 Resp: 367404
 Ion Ratio Lower Upper
 98 100
 100 64.0 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 226.056 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

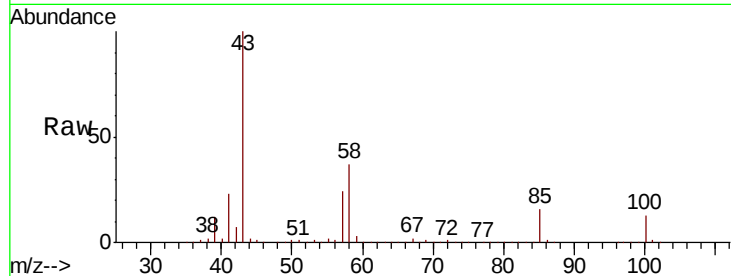
FT-PZ459I-20181025MS

Tot Ion: 43 Resp: 987138

Ion Ratio Lower Upper

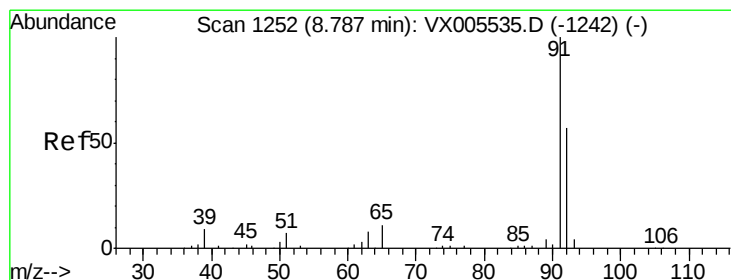
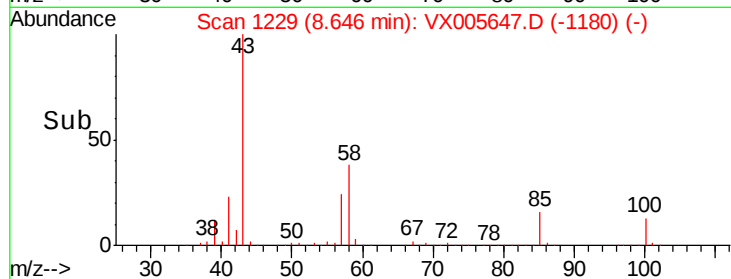
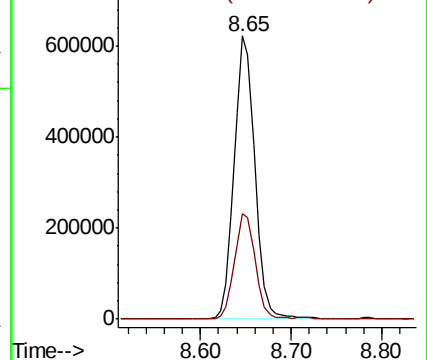
43 100

58 37.3 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 43.681 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX005647.D

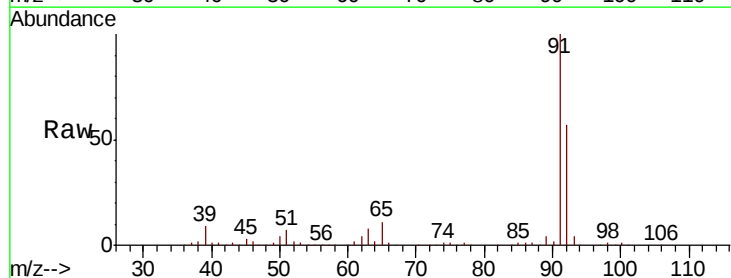
Acq: 27 Oct 2018 10:53

Tgt Ion: 92 Resp: 258581

Ion Ratio Lower Upper

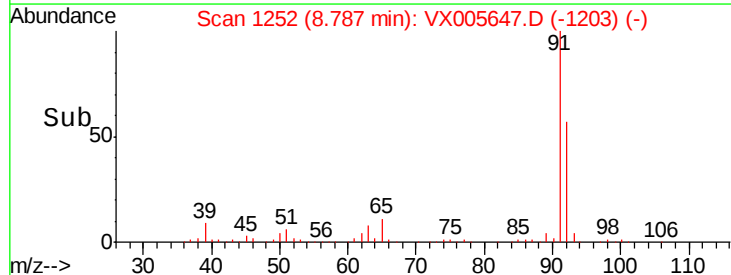
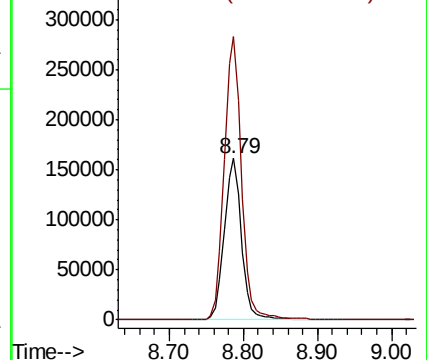
92 100

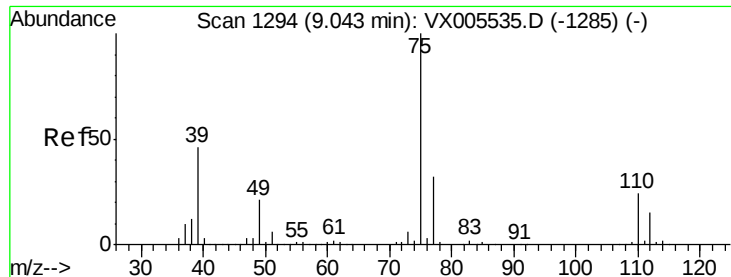
91 176.7 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

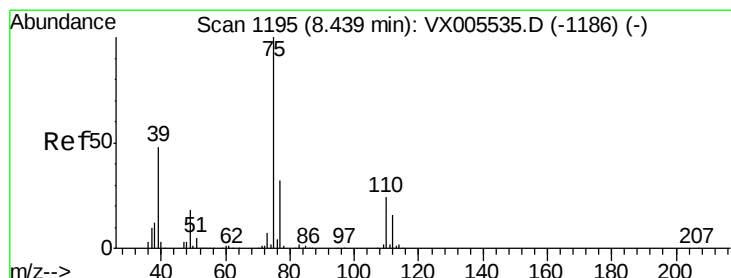
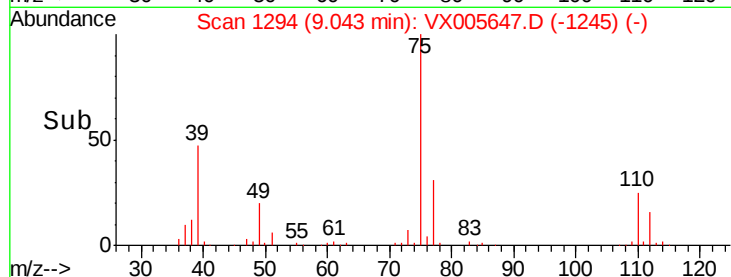
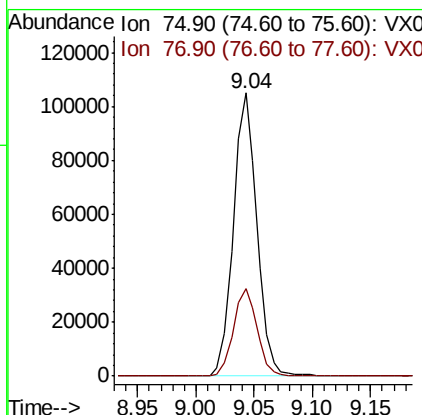
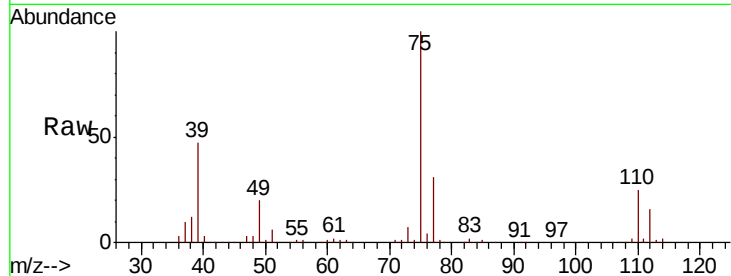




#53
 t-1,3-Dichloropropene
 Concen: 41.724 ug/l
 RT: 9.04 min Scan# 1294
 Delta R.T. -0.00 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

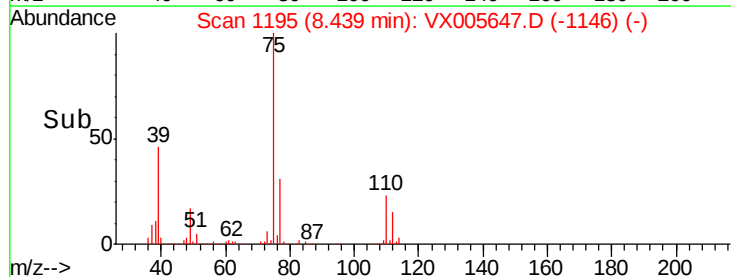
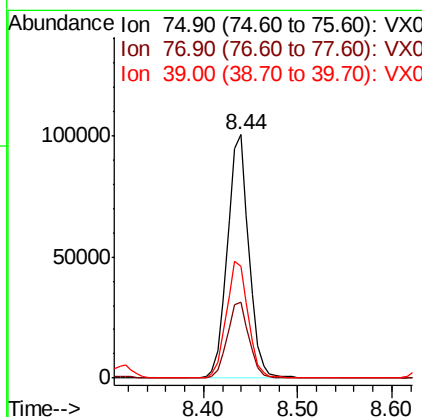
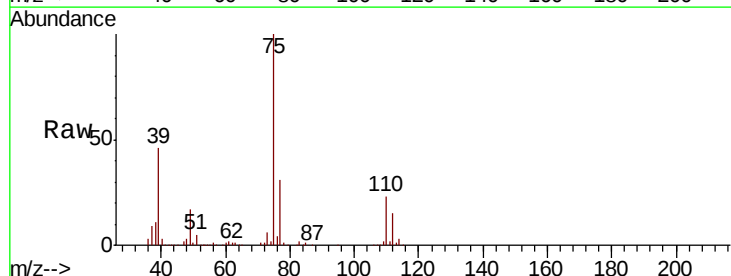
Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ459I-20181025MS

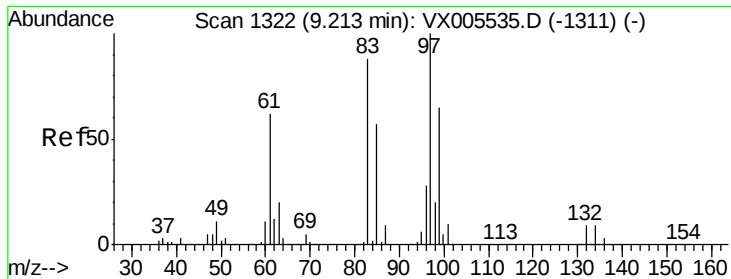
Tot Ion: 75 Resp: 148029
 Ion Ratio Lower Upper
 75 100
 77 30.8 25.4 38.2



#54
 cis-1,3-Dichloropropene
 Concen: 41.493 ug/l
 RT: 8.44 min Scan# 1195
 Delta R.T. -0.00 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Tgt Ion: 75 Resp: 158493
 Ion Ratio Lower Upper
 75 100
 77 31.0 25.2 37.8
 39 45.9 38.2 57.2





#55

1,1,2-Trichloroethane

Concen: 43.004 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

Tot Ion: 97 Resp: 107330

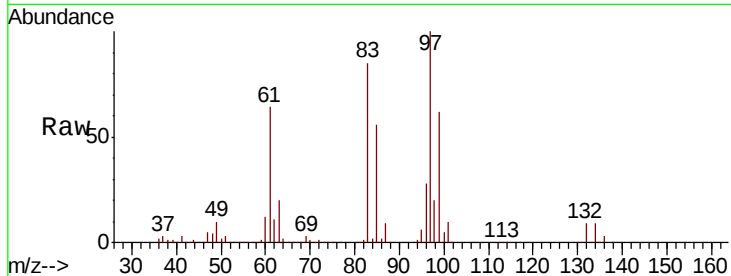
Ion Ratio Lower Upper

97 100

83 85.3 70.7 106.1

85 56.2 45.8 68.6

99 61.7 51.8 77.8

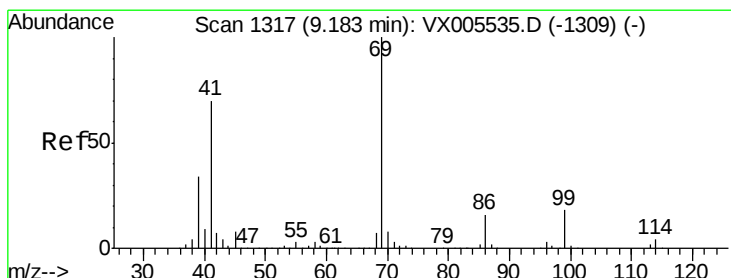
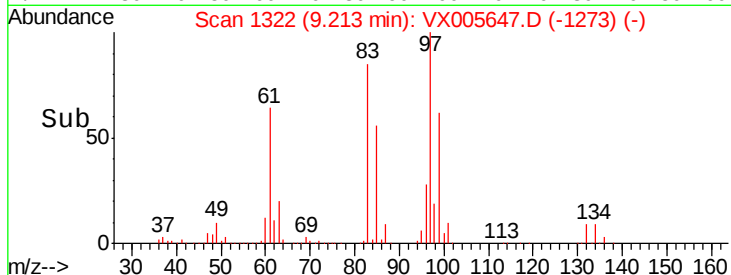
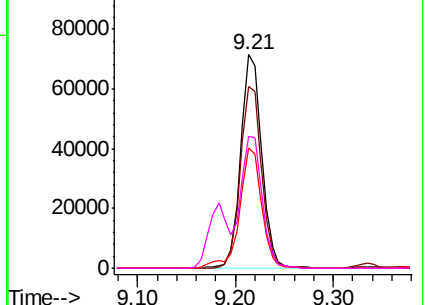


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#56

Ethyl methacrylate

Concen: 46.095 ug/l

RT: 9.18 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

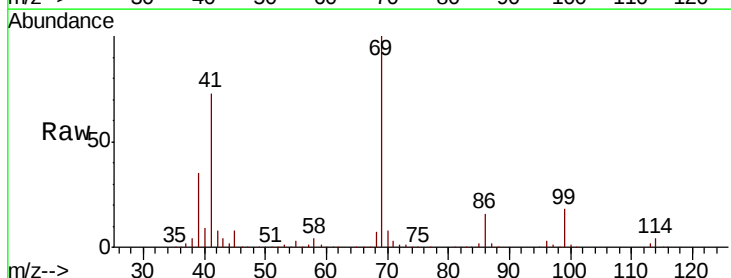
Tgt Ion: 69 Resp: 171599

Ion Ratio Lower Upper

69 100

41 72.5 57.0 85.6

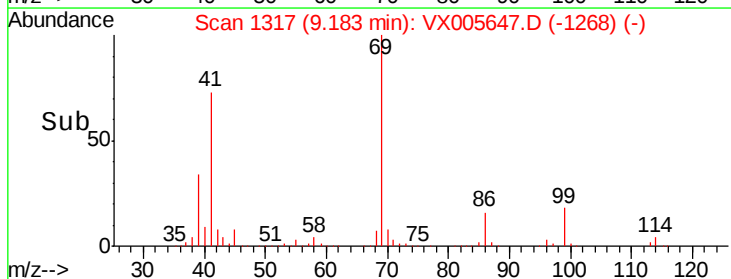
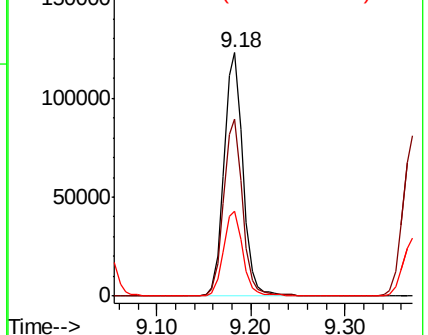
39 35.4 28.3 42.5

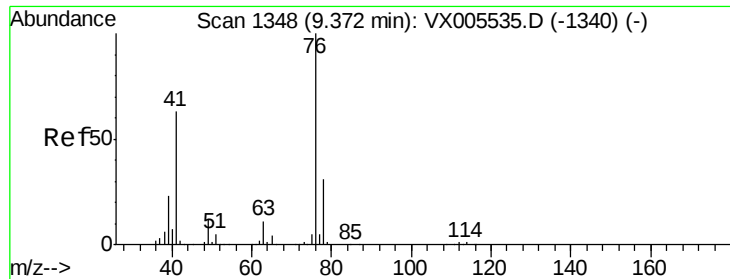


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 43.622 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

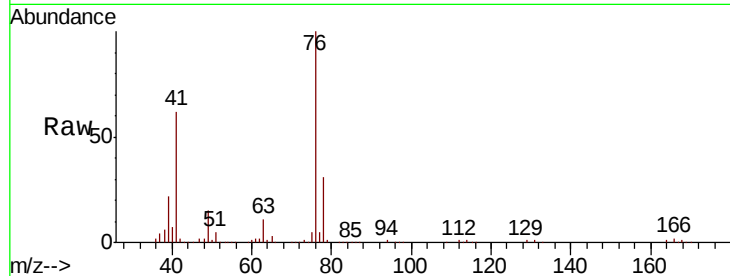
FT-PZ459I-20181025MS

Tot Ion: 76 Resp: 184216

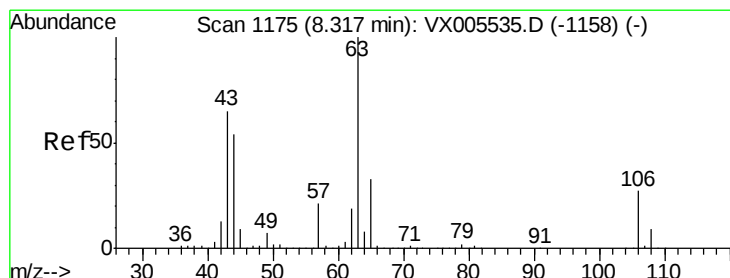
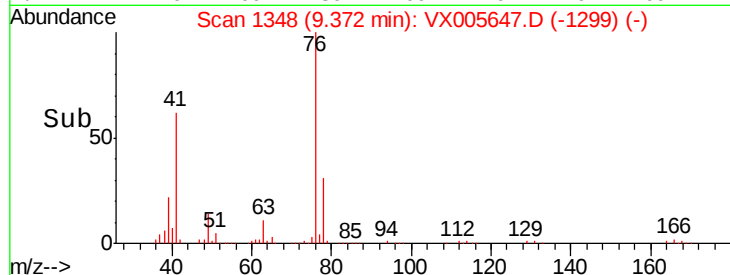
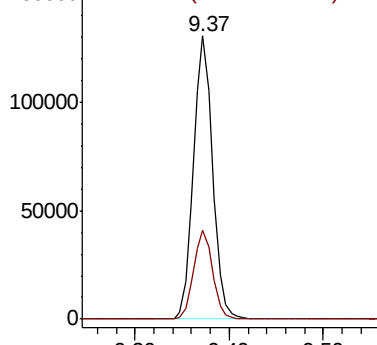
Ion Ratio Lower Upper

76 100

78 31.4 25.3 37.9



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 210.649 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VX005647.D

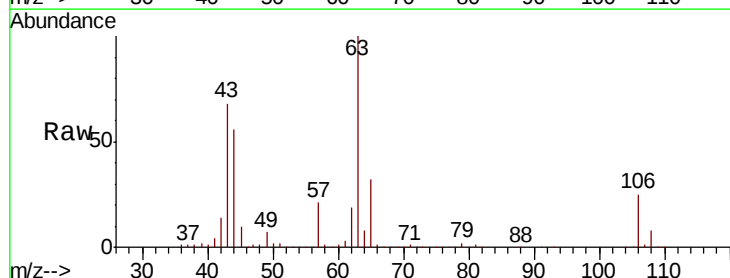
Acq: 27 Oct 2018 10:53

Tgt Ion: 63 Resp: 437977

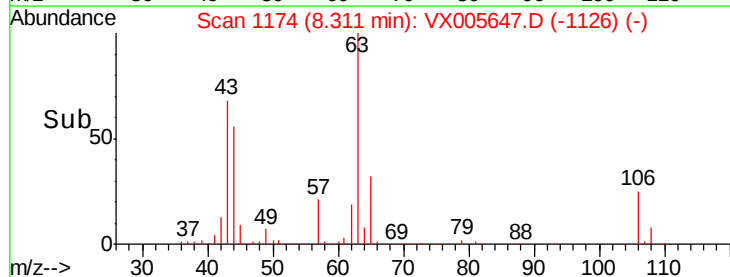
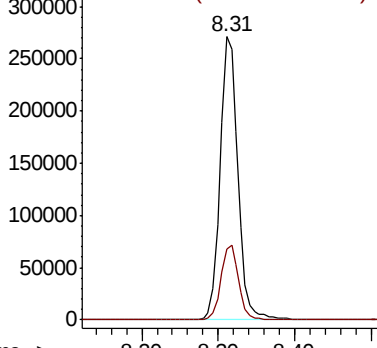
Ion Ratio Lower Upper

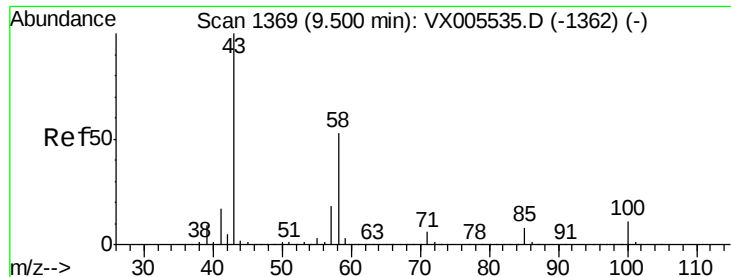
63 100

106 26.5 21.3 31.9



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 105.90 (105.60 to 106.60): V

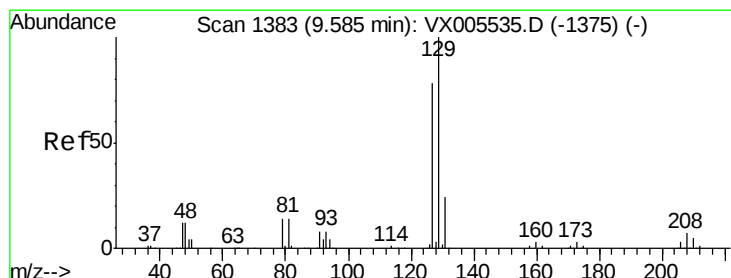
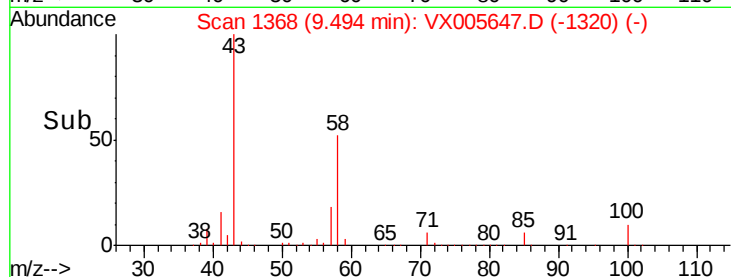
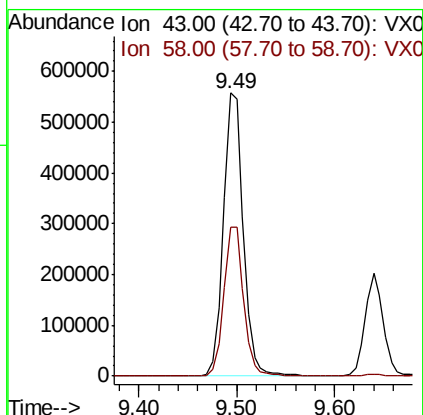
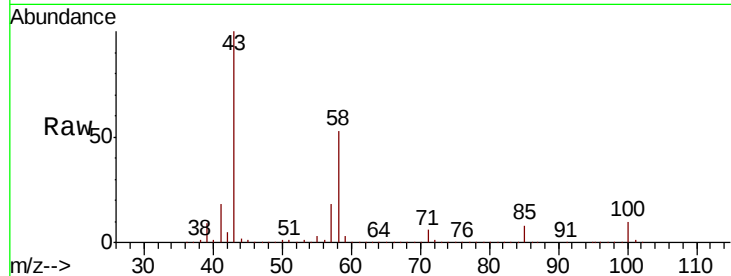




#59
2-Hexanone
Concen: 228.245 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

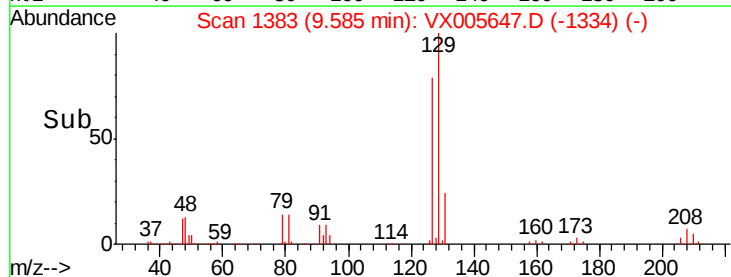
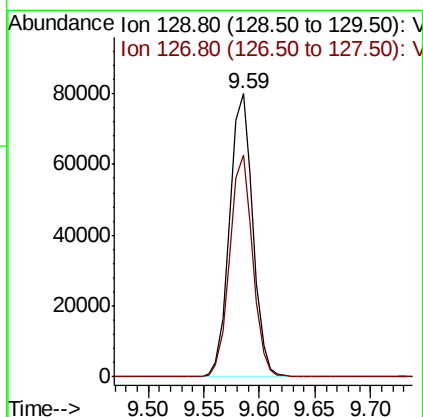
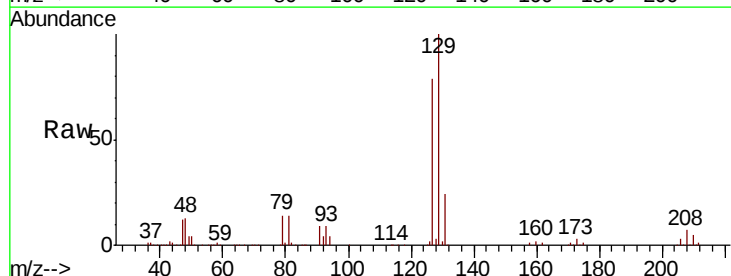
Instrument :
MSVOA_X
ClientSampleId :
FT-PZ459I-20181025MS

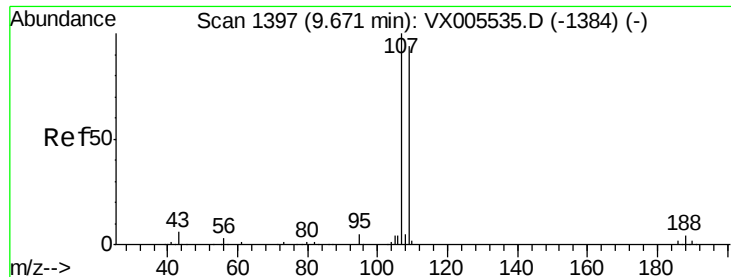
Tot Ion: 43 Resp: 785846
Ion Ratio Lower Upper
43 100
58 52.5 25.9 77.8



#60
Dibromochloromethane
Concen: 44.280 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Tgt Ion:129 Resp: 115304
Ion Ratio Lower Upper
129 100
127 77.7 38.9 116.7





#61

1,2-Dibromoethane

Concen: 43.759 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

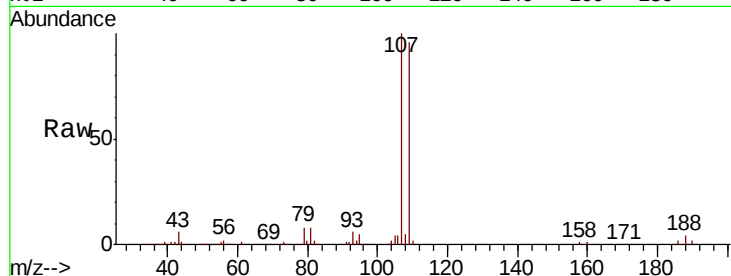
FT-PZ459I-20181025MS

Tot Ion:107 Resp: 112988

Ion Ratio Lower Upper

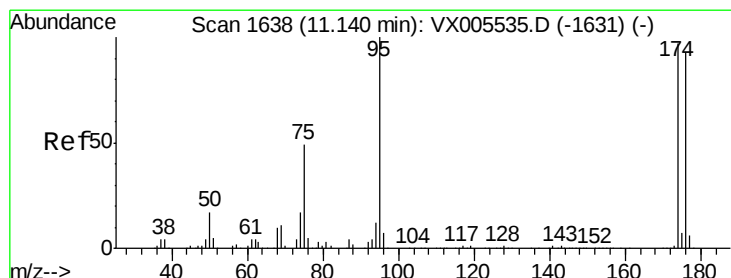
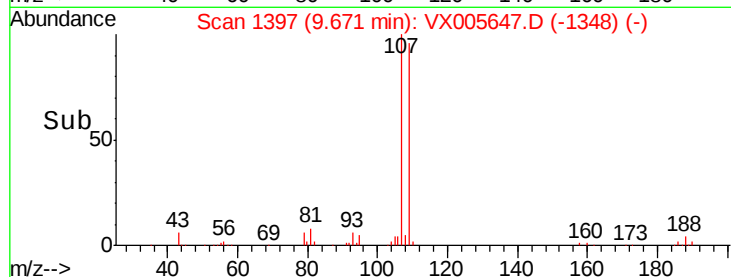
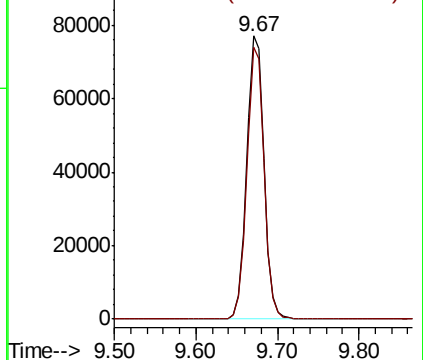
107 100

109 95.5 75.7 113.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 44.195 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

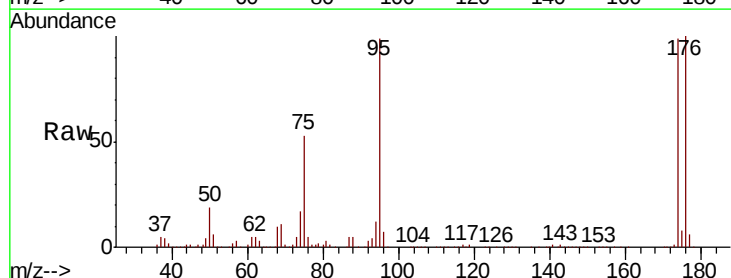
Tgt Ion: 95 Resp: 142181

Ion Ratio Lower Upper

95 100

174 94.2 0.0 184.4

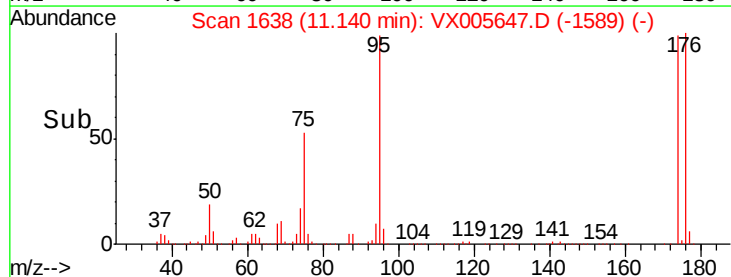
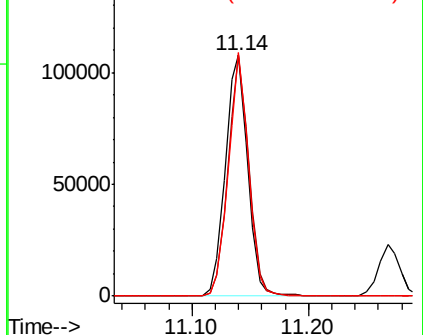
176 91.9 0.0 177.4

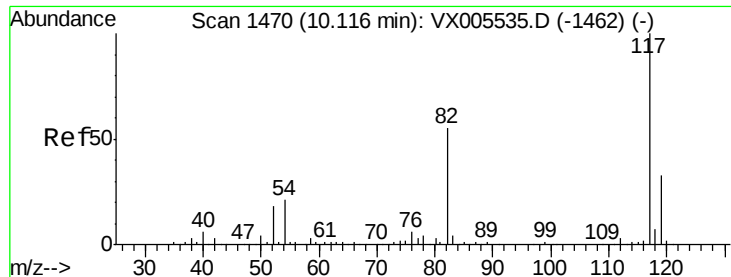


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

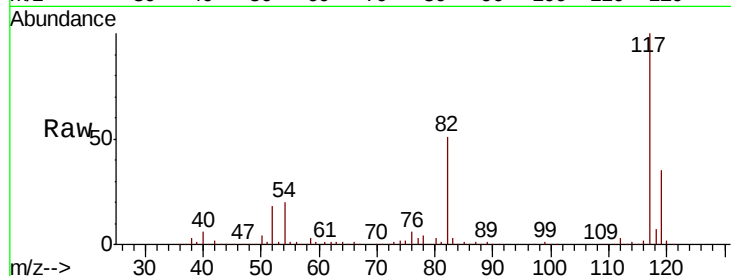
Tot Ion:117 Resp: 293586

Ion Ratio Lower Upper

117 100

82 50.7 44.1 66.1

119 35.2 26.2 39.2

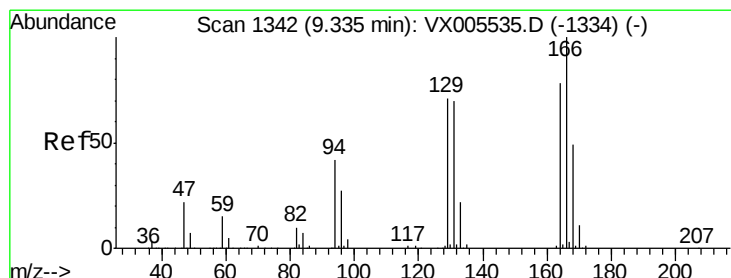
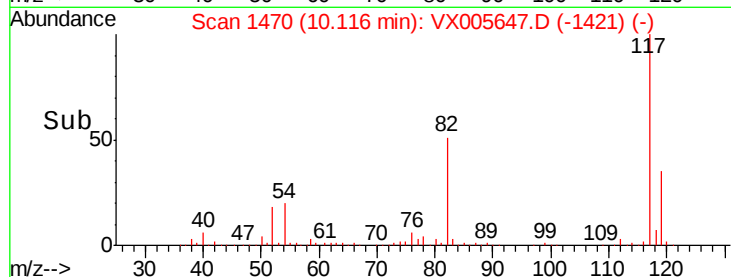
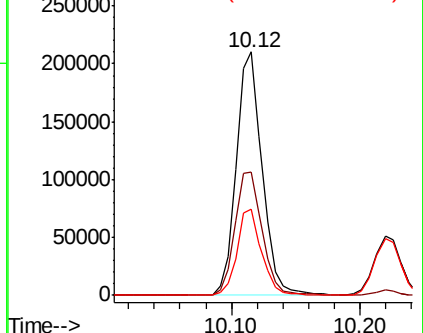


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 44.903 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Tgt Ion:164 Resp: 109436

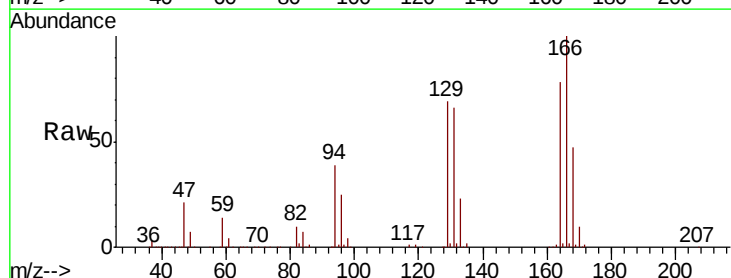
Ion Ratio Lower Upper

164 100

166 128.6 101.9 152.9

129 89.4 72.6 109.0

131 84.7 71.1 106.7



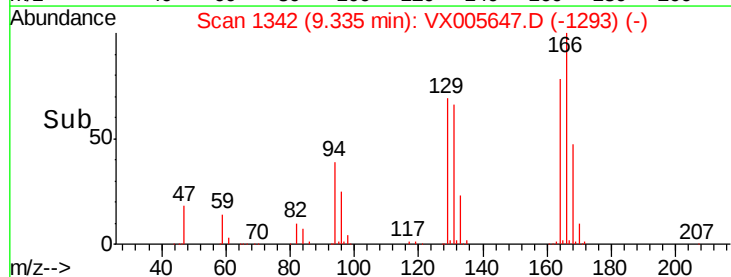
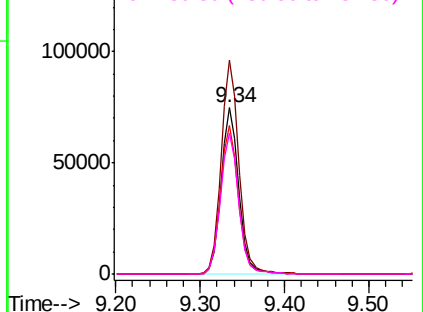
Abundance

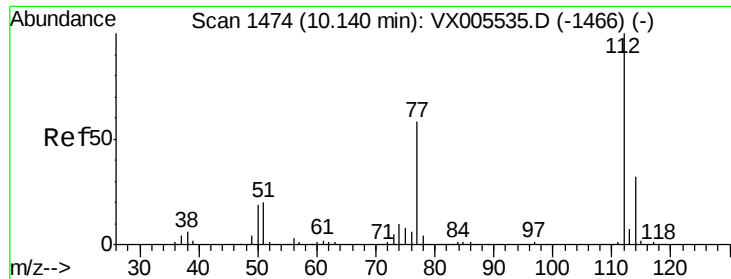
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

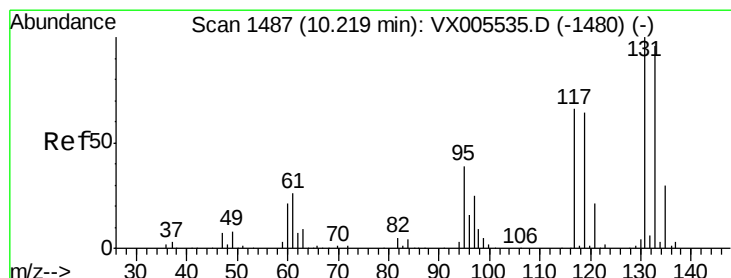
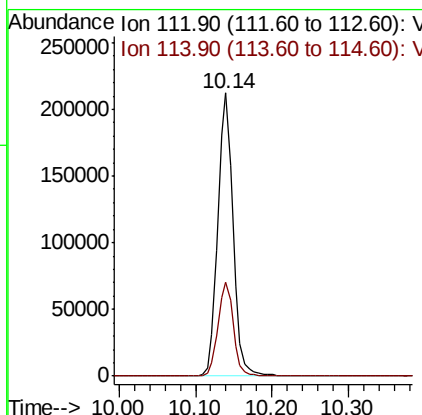
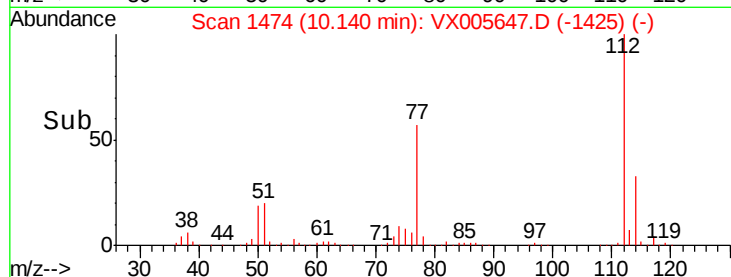
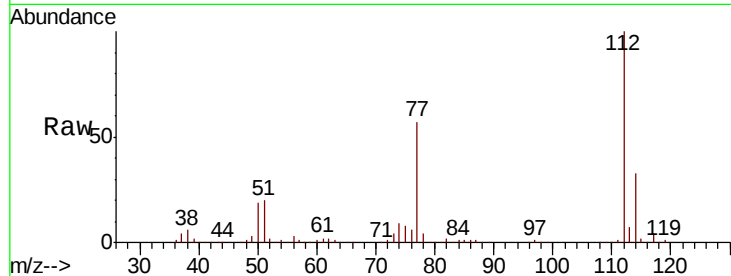




#65
Chlorobenzene
Concen: 46.938 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

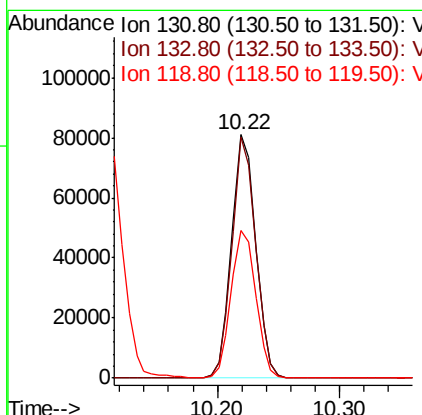
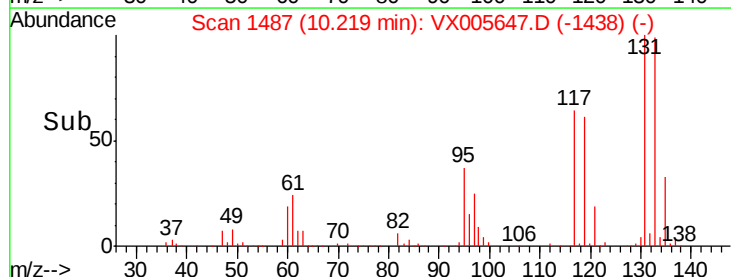
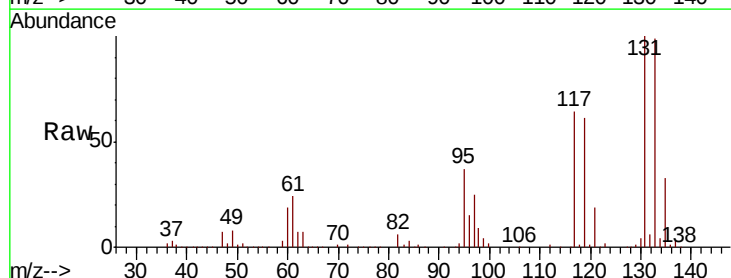
Instrument :
MSVOA_X
ClientSampleId :
FT-PZ459I-20181025MS

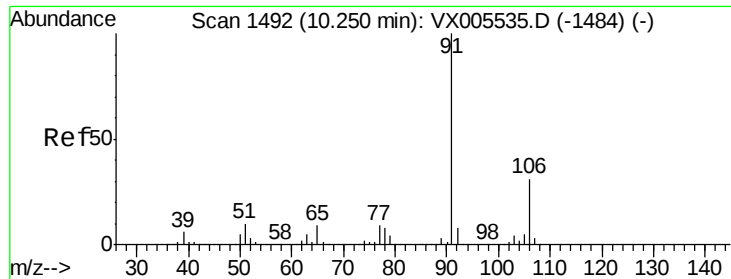
Tot Ion:112 Resp: 293444
Ion Ratio Lower Upper
112 100
114 33.2 25.8 38.6



#66
1,1,1,2-Tetrachloroethane
Concen: 48.483 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Tgt Ion:131 Resp: 110521
Ion Ratio Lower Upper
131 100
133 96.7 47.5 142.5
119 62.4 31.8 95.3





#67

Ethyl Benzene

Concen: 49.206 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

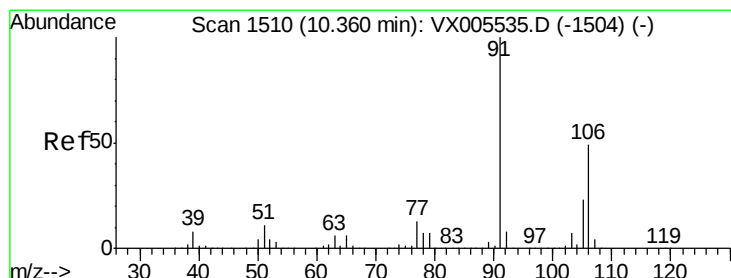
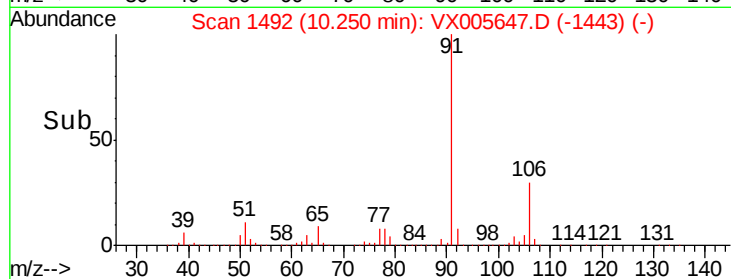
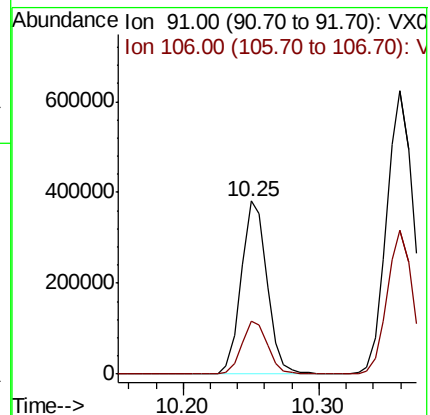
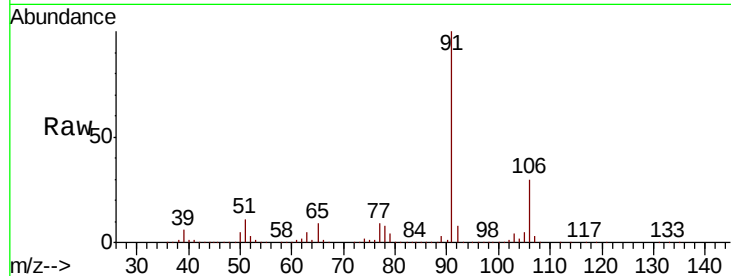
FT-PZ459I-20181025MS

Tot Ion: 91 Resp: 506128

Ion Ratio Lower Upper

91 100

106 30.2 24.4 36.6



#68

m/p-Xylenes

Concen: 105.053 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX005647.D

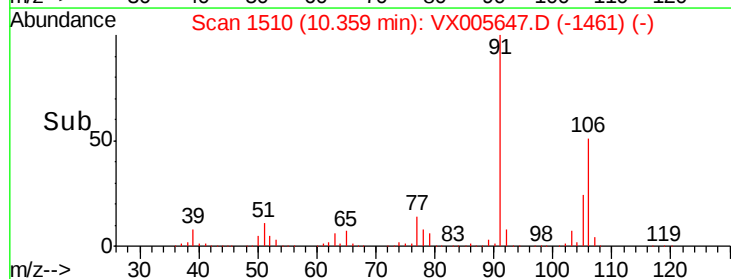
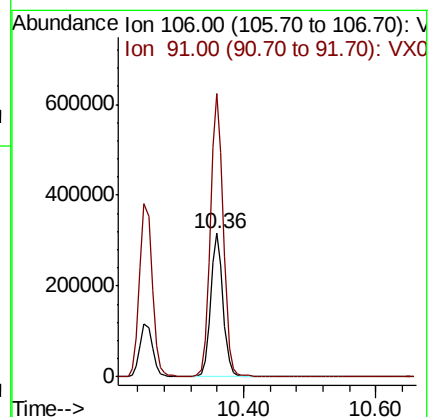
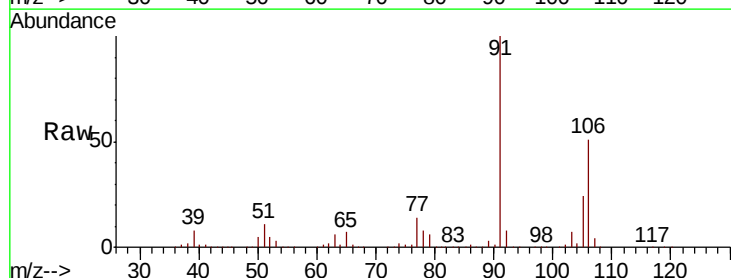
Acq: 27 Oct 2018 10:53

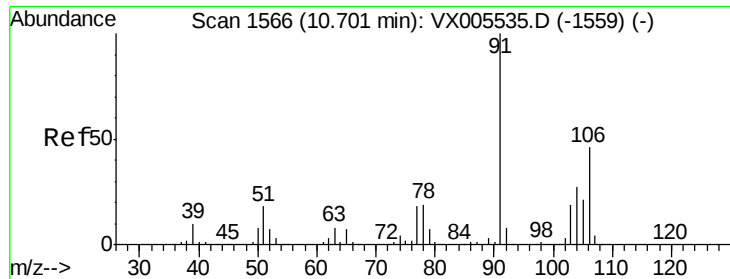
Tgt Ion: 106 Resp: 419226

Ion Ratio Lower Upper

106 100

91 205.3 164.2 246.4

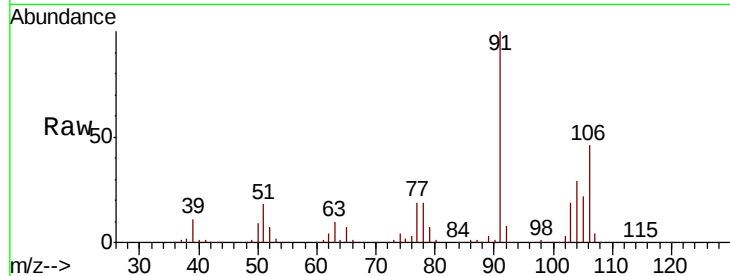




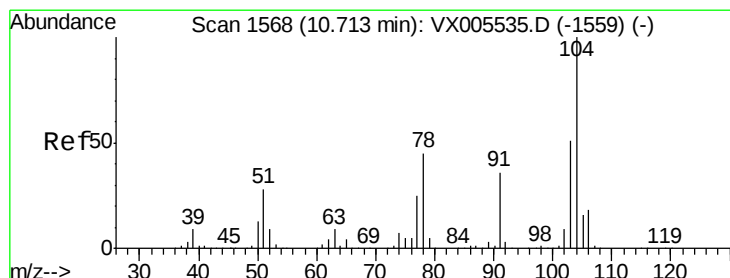
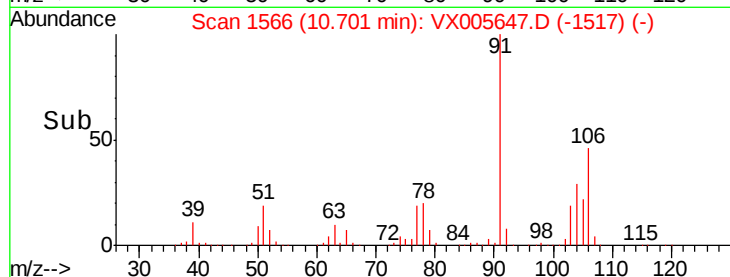
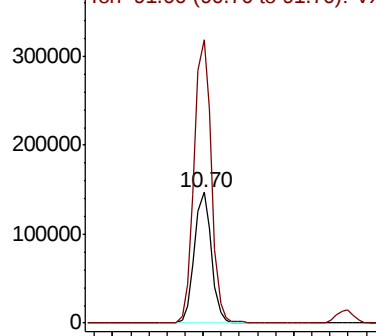
#69
o-Xylene
Concen: 51.443 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
FT-PZ459I-20181025MS

Tot Ion:106 Resp: 193140
Ion Ratio Lower Upper
106 100
91 219.9 108.5 325.5

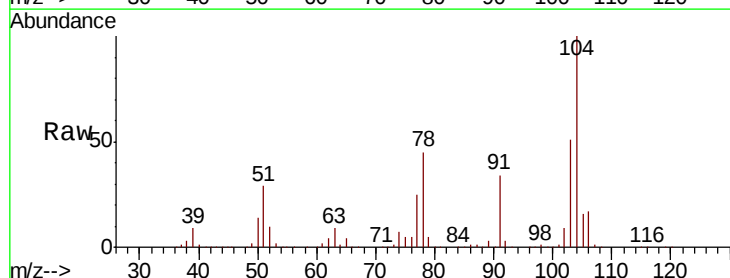


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

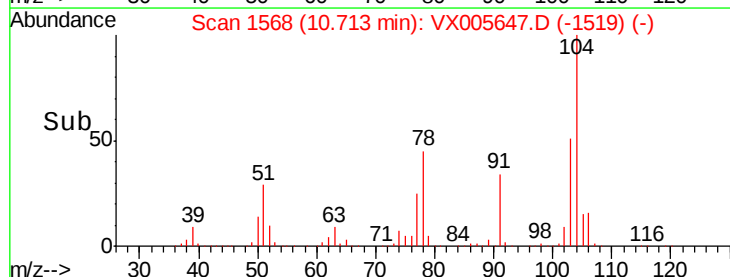
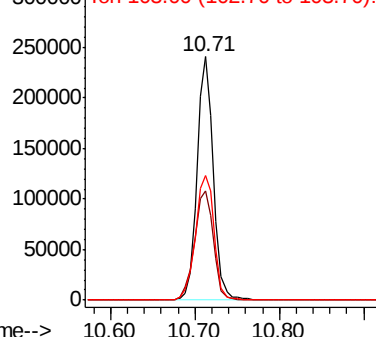


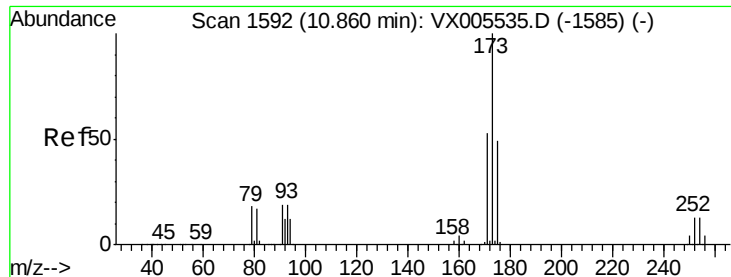
#70
Styrene
Concen: 50.919 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Tgt Ion:104 Resp: 320031
Ion Ratio Lower Upper
104 100
78 52.6 40.2 60.4
103 59.1 44.9 67.3



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 50.173 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

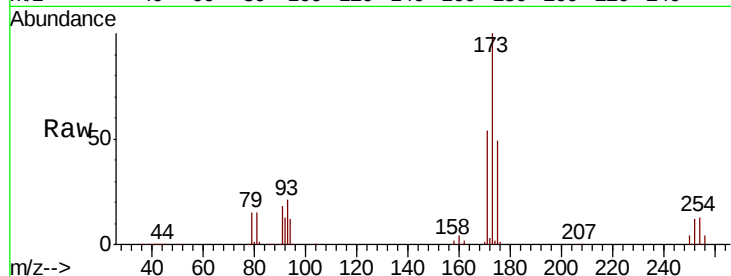
Tot Ion:173 Resp: 102059

Ion Ratio Lower Upper

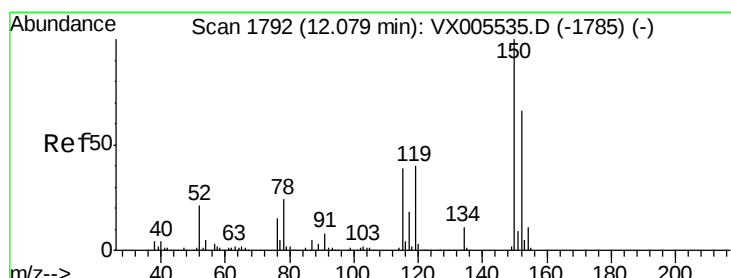
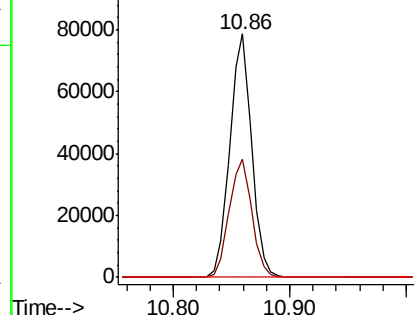
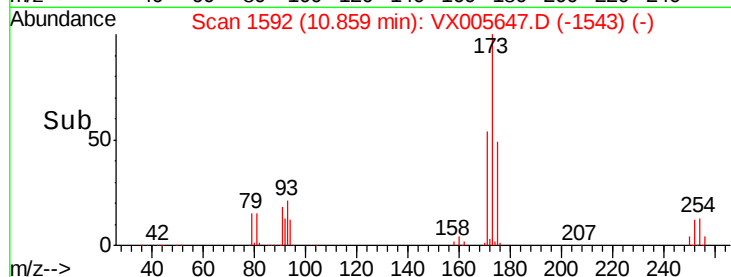
173 100

175 50.5 24.8 74.3

254 0.2 0.2 0.2



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

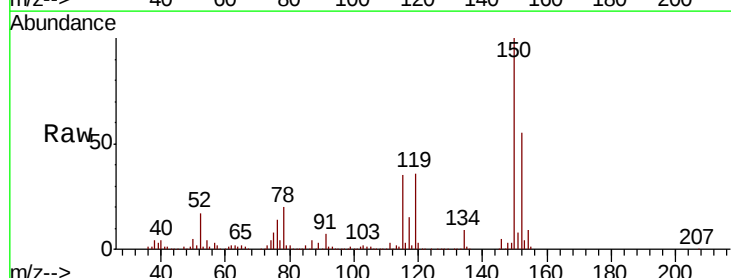
Tgt Ion:152 Resp: 191188

Ion Ratio Lower Upper

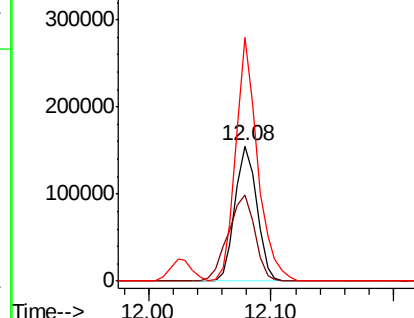
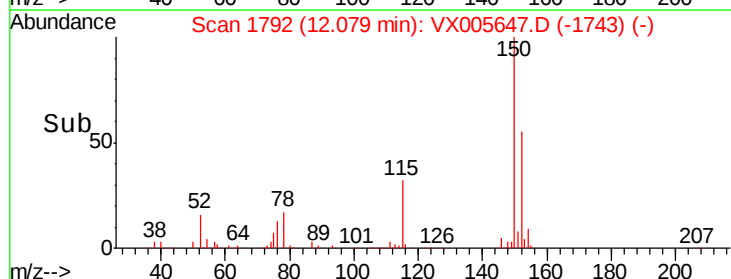
152 100

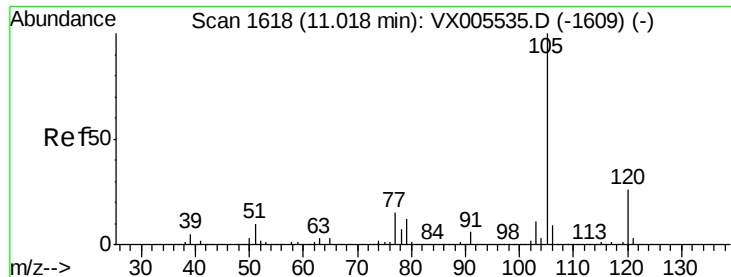
115 78.3 39.4 118.1

150 179.4 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 44.936 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

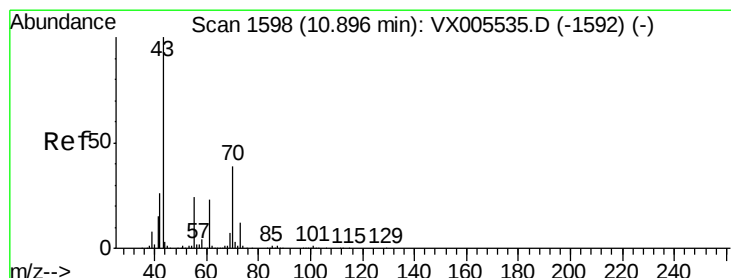
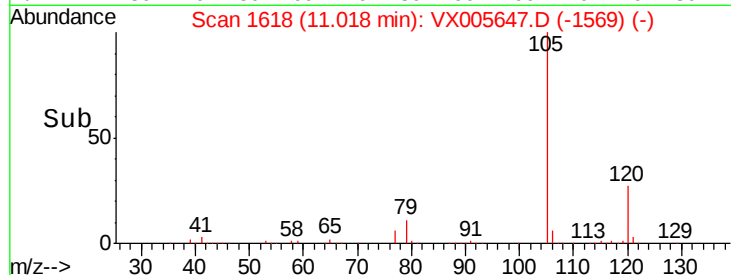
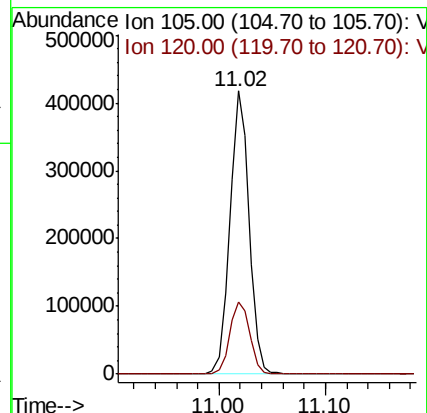
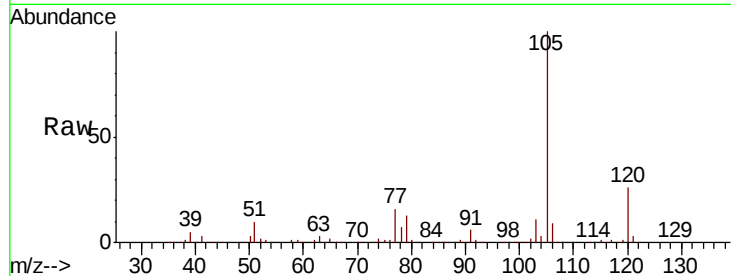
FT-PZ459I-20181025MS

Tot Ion:105 Resp: 525164

Ion Ratio Lower Upper

105 100

120 26.6 13.1 39.3



#74

N-ethyl acetate

Concen: 47.589 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Tgt Ion: 43 Resp: 275582

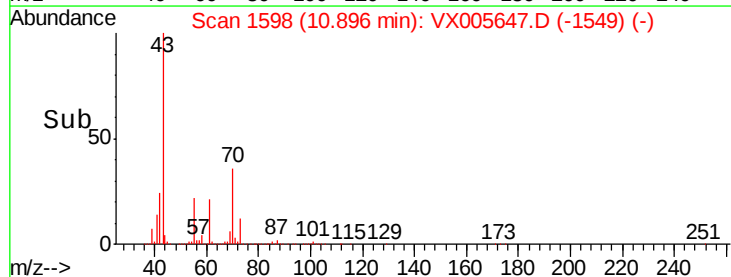
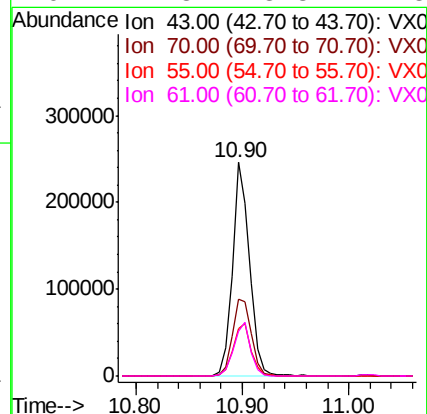
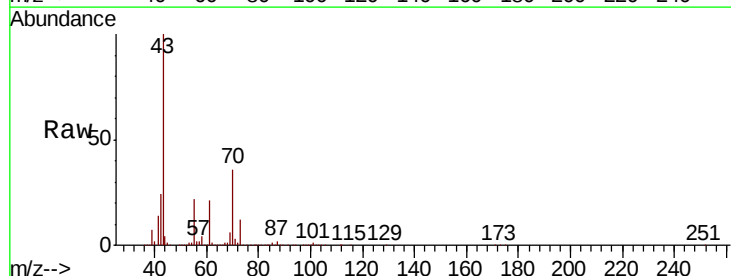
Ion Ratio Lower Upper

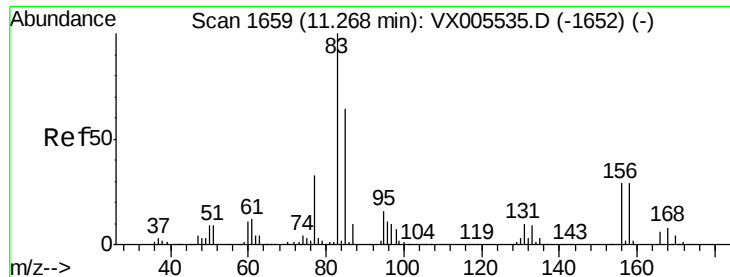
43 100

70 40.3 31.6 47.4

55 26.2 19.7 29.5

61 24.8 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 41.898 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

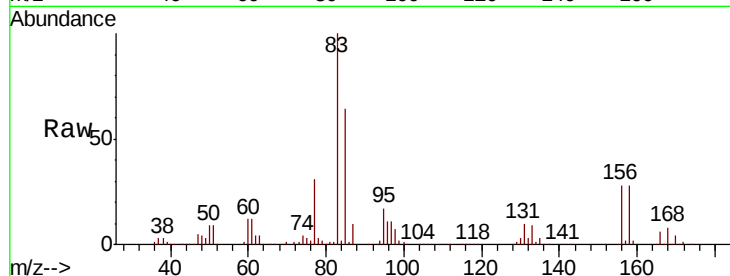
Tot Ion: 83 Resp: 180652

Ion Ratio Lower Upper

83 100

131 10.5 5.3 15.9

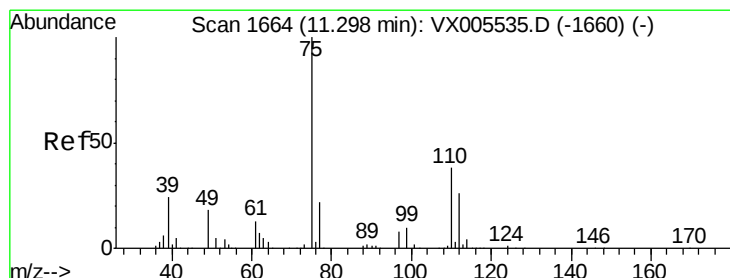
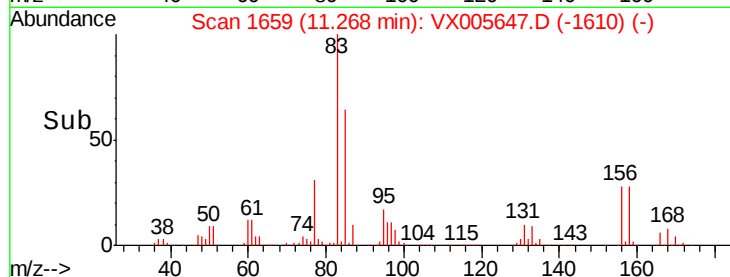
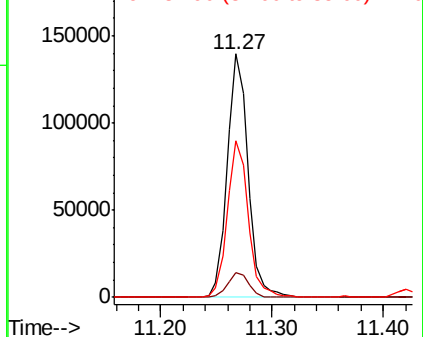
85 64.7 32.0 96.2



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 57.433 ug/l

RT: 11.30 min Scan# 1664

Delta R.T. -0.00 min

Lab File: VX005647.D

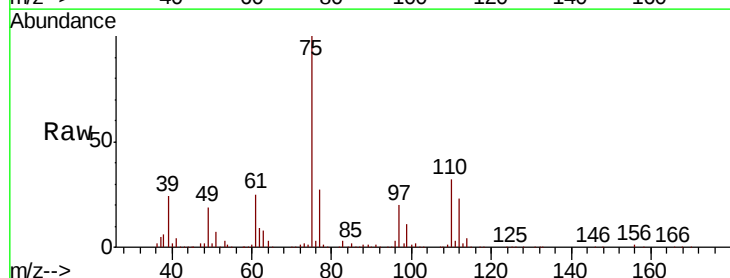
Acq: 27 Oct 2018 10:53

Tgt Ion: 75 Resp: 232650

Ion Ratio Lower Upper

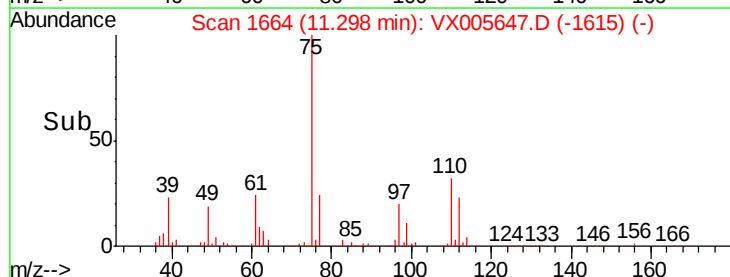
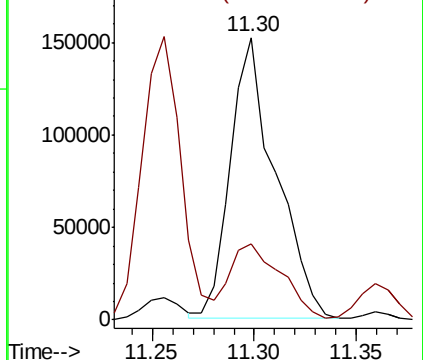
75 100

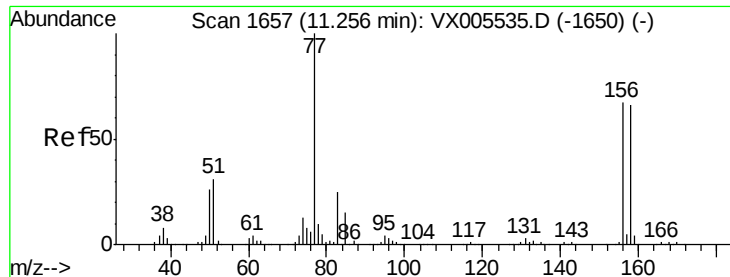
77 30.6 20.5 61.6



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 42.026 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

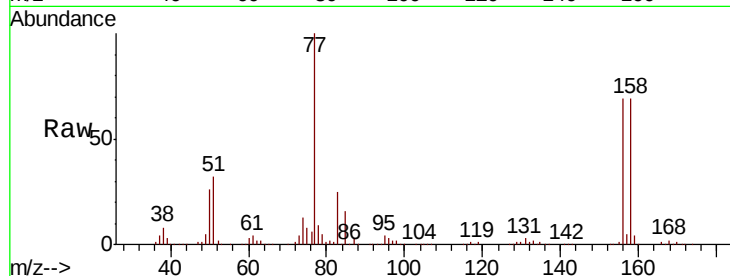
Tot Ion:156 Resp: 136881

Ion Ratio Lower Upper

156 100

77 149.5 74.8 224.4

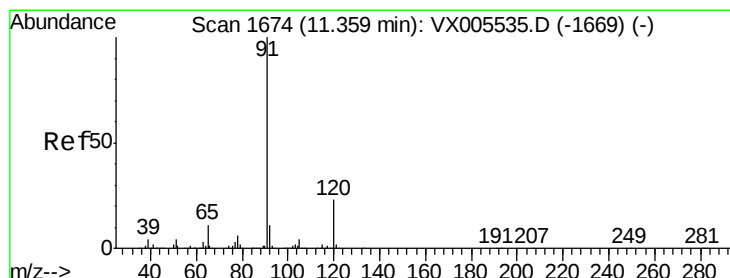
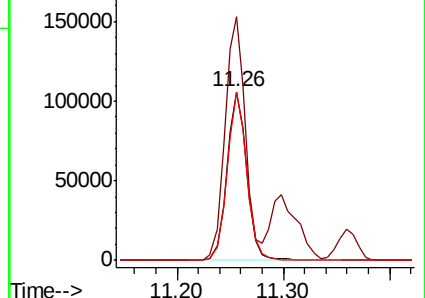
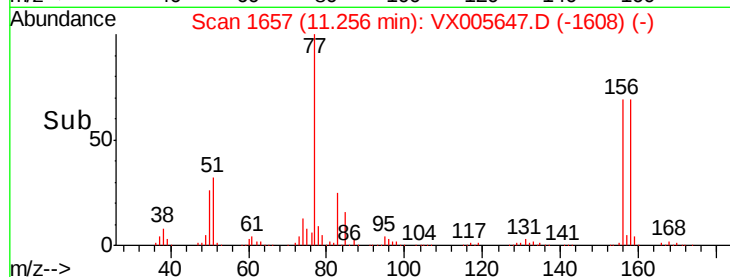
158 98.7 49.1 147.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 48.105 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX005647.D

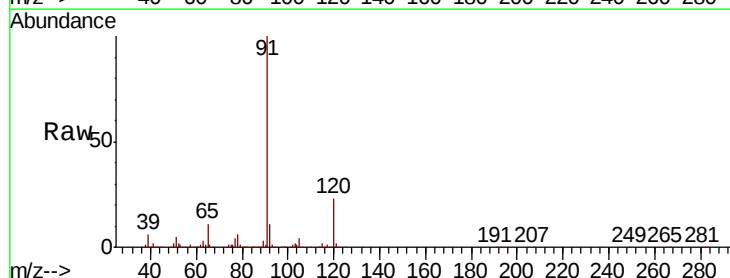
Acq: 27 Oct 2018 10:53

Tgt Ion: 91 Resp: 642860

Ion Ratio Lower Upper

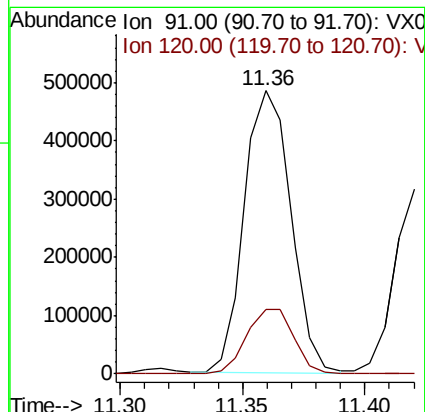
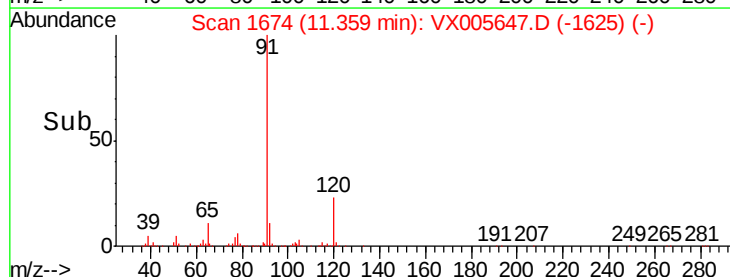
91 100

120 23.5 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 46.973 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

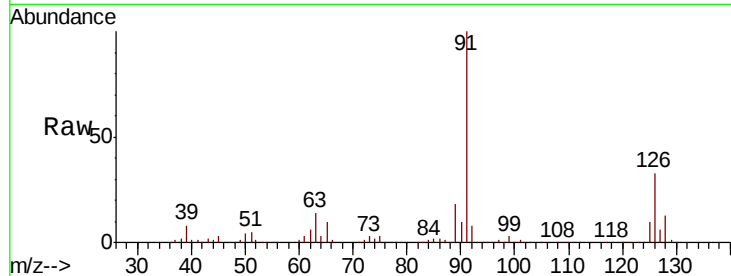
FT-PZ459I-20181025MS

Tot Ion: 91 Resp: 389209

Ion Ratio Lower Upper

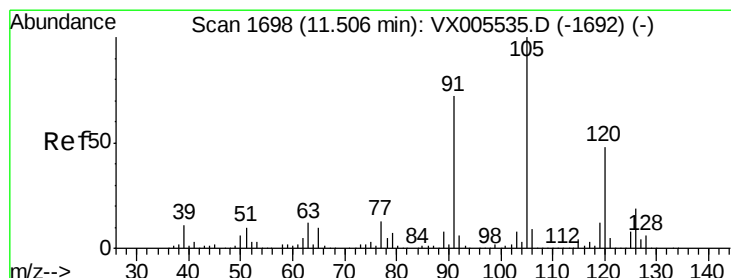
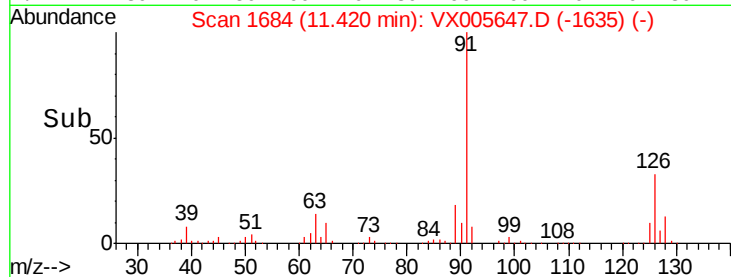
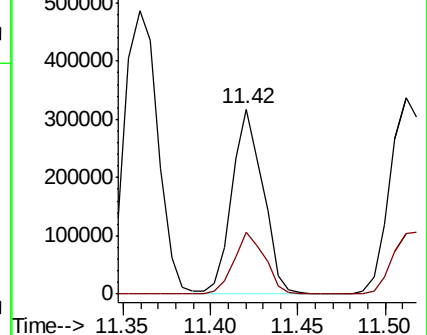
91 100

126 34.0 17.3 52.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 44.126 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX005647.D

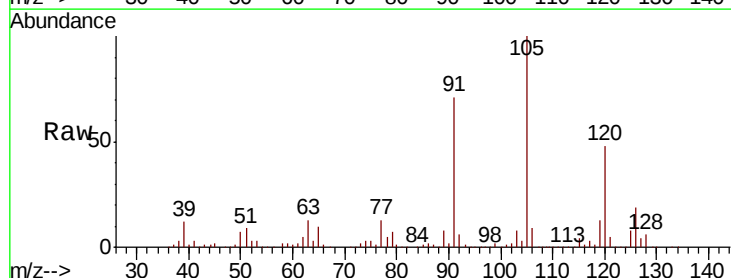
Acq: 27 Oct 2018 10:53

Tgt Ion:105 Resp: 441161

Ion Ratio Lower Upper

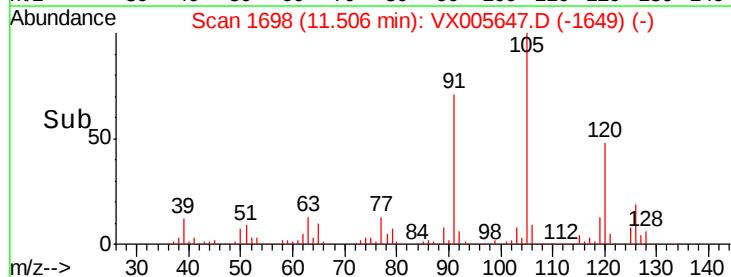
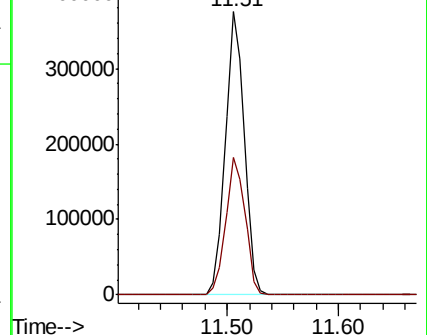
105 100

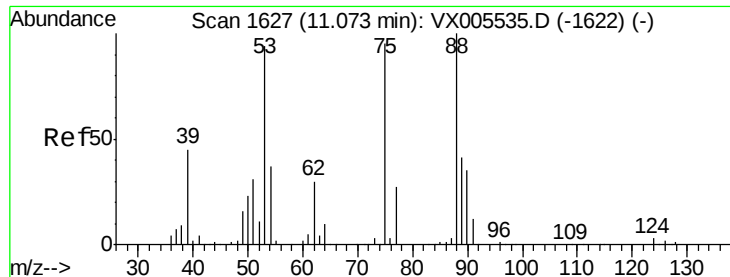
120 49.7 24.1 72.2



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: 35.726 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

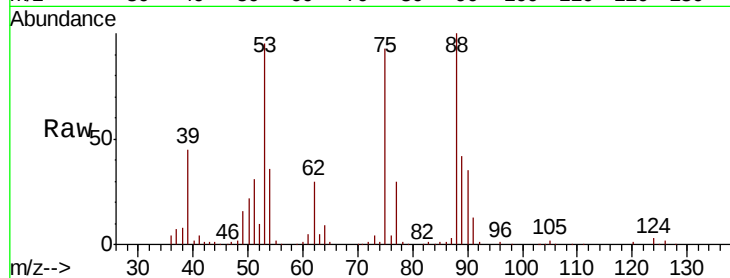
Tot Ion: 75 Resp: 44290

Ion Ratio Lower Upper

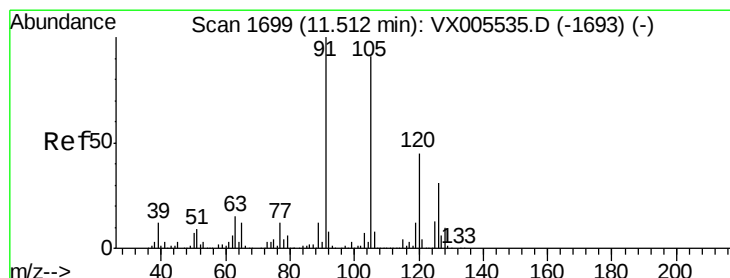
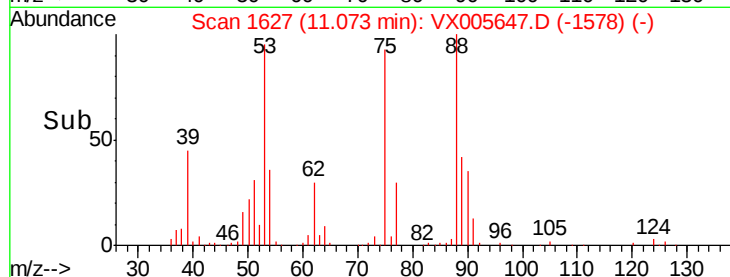
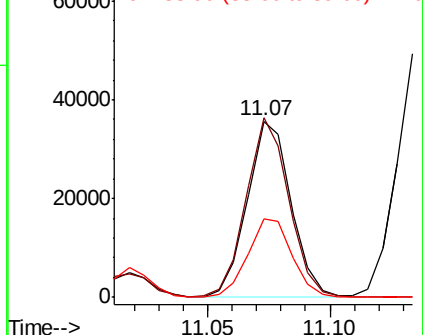
75 100

53 99.7 80.2 120.2

89 45.7 39.8 59.8



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 45.058 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VX005647.D

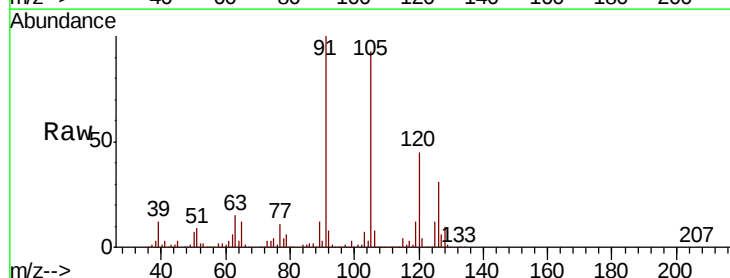
Acq: 27 Oct 2018 10:53

Tgt Ion: 91 Resp: 440237

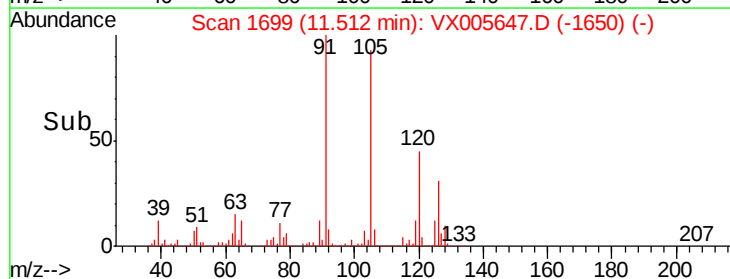
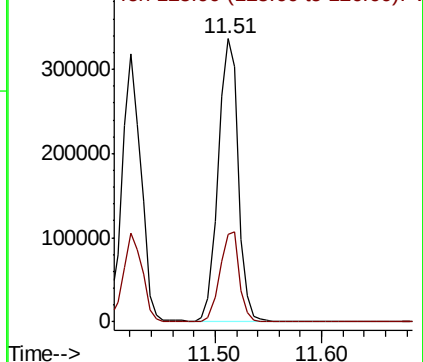
Ion Ratio Lower Upper

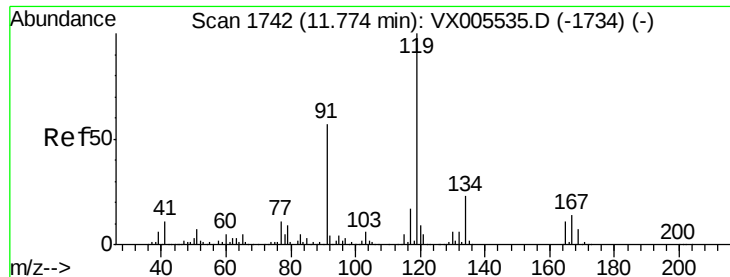
91 100

126 30.9 15.2 45.6



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 125.90 (125.60 to 126.60): V

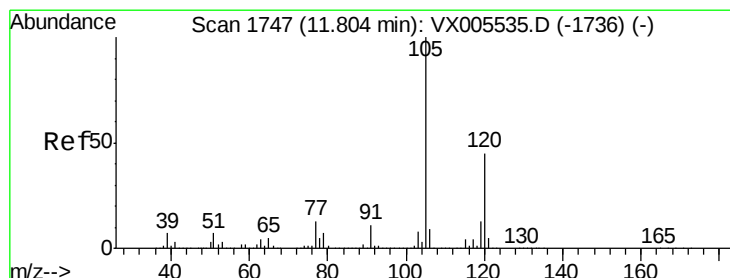
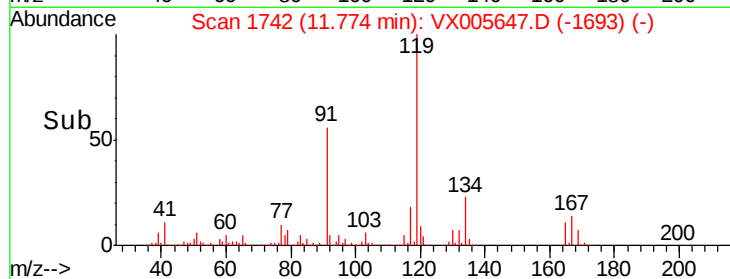
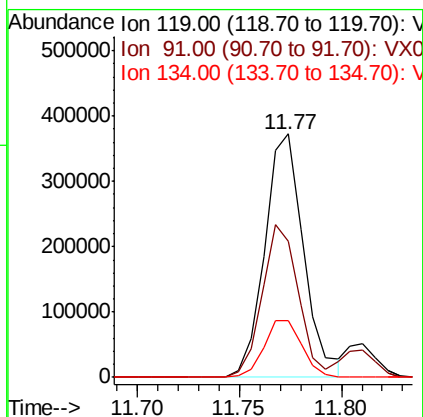
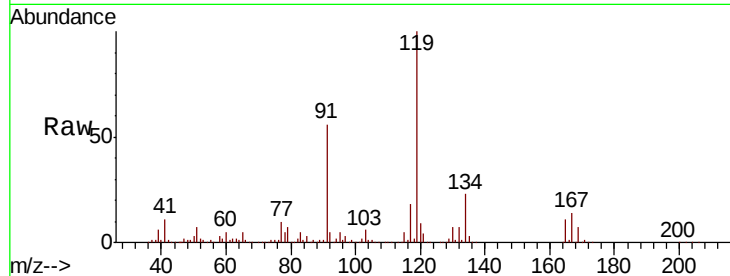




#83
 tert-Butylbenzene
 Concen: 49.627 ug/l
 RT: 11.77 min Scan# 1742
 Delta R.T. -0.00 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

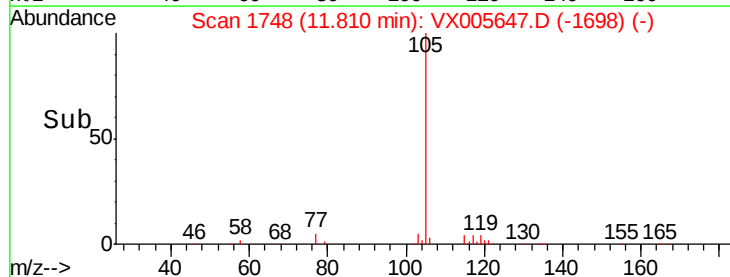
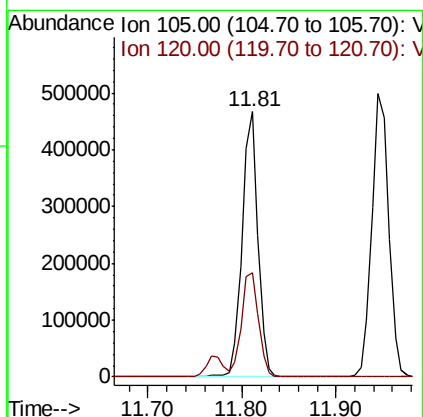
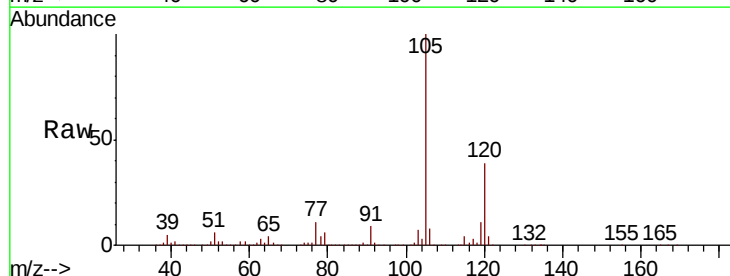
Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ459I-20181025MS

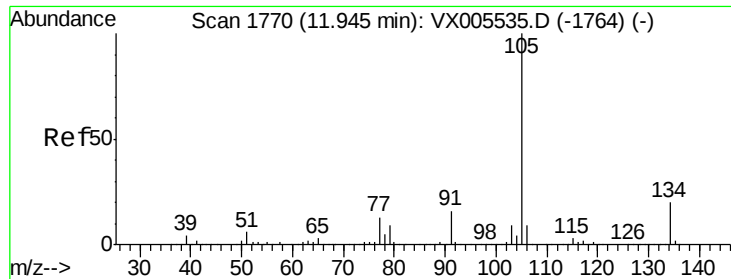
Tot Ion:119 Resp: 494571
 Ion Ratio Lower Upper
 119 100
 91 58.4 28.5 85.5
 134 23.1 11.3 33.8



#84
 1,2,4-Trimethylbenzene
 Concen: 53.638 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. 0.01 min
 Lab File: VX005647.D
 Acq: 27 Oct 2018 10:53

Tgt Ion:105 Resp: 543484
 Ion Ratio Lower Upper
 105 100
 120 42.3 22.4 67.0





#85

sec-Butylbenzene

Concen: 52.322 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

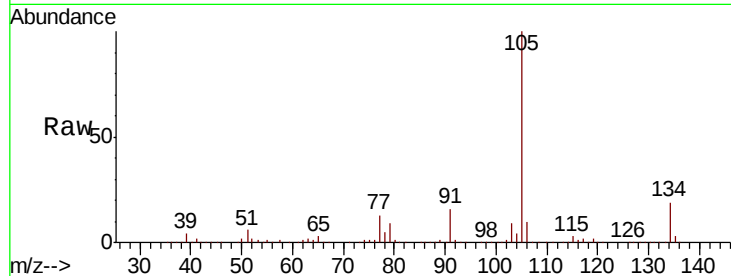
FT-PZ459I-20181025MS

Tot Ion:105 Resp: 622188

Ion Ratio Lower Upper

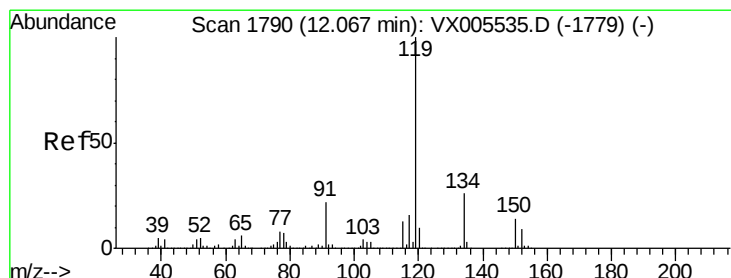
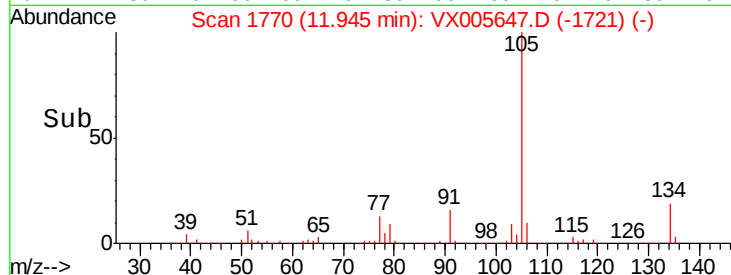
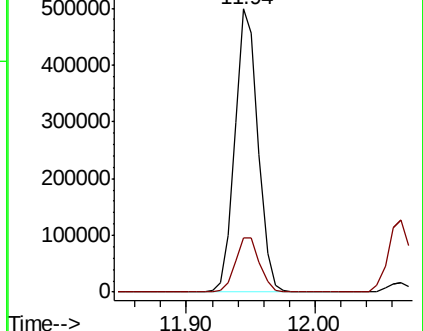
105 100

134 20.2 10.2 30.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 54.130 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

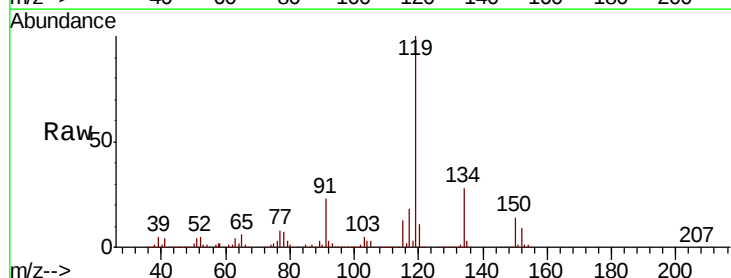
Tgt Ion:119 Resp: 575422

Ion Ratio Lower Upper

119 100

134 26.5 13.0 39.0

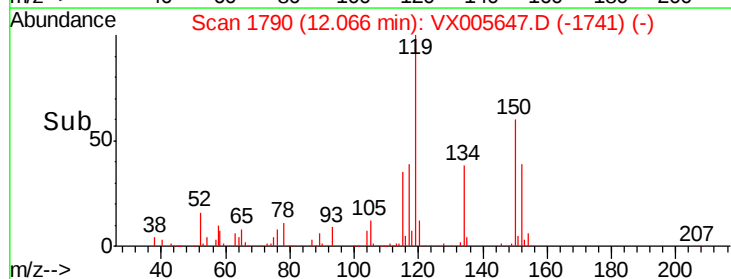
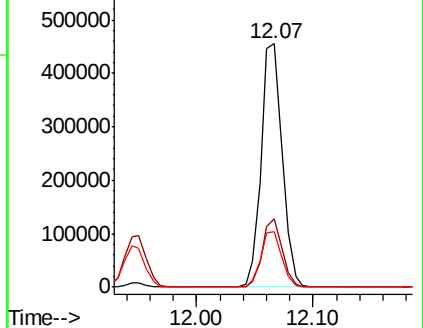
91 22.6 11.4 34.2

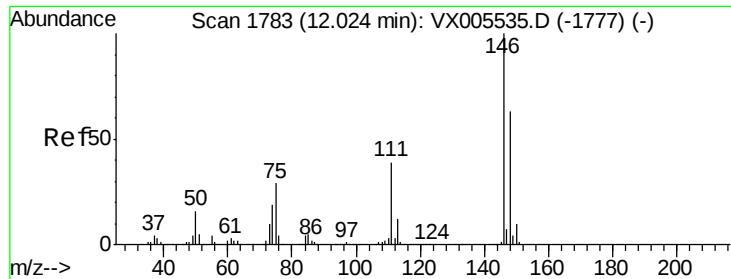


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





#87

1,3-Dichlorobenzene

Concen: 53.644 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

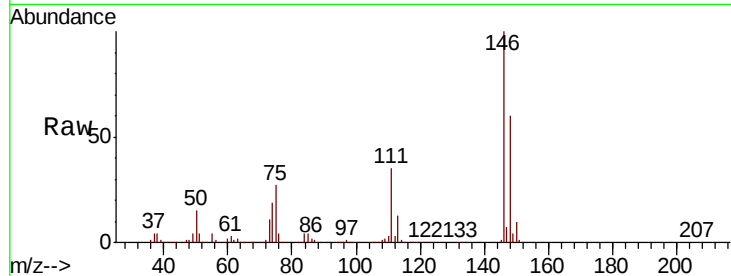
Tot Ion:146 Resp: 328560

Ion Ratio Lower Upper

146 100

111 35.4 19.0 57.0

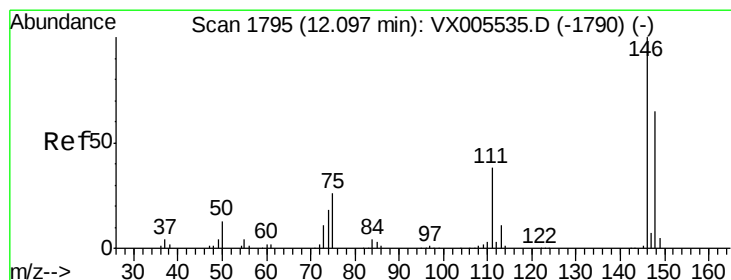
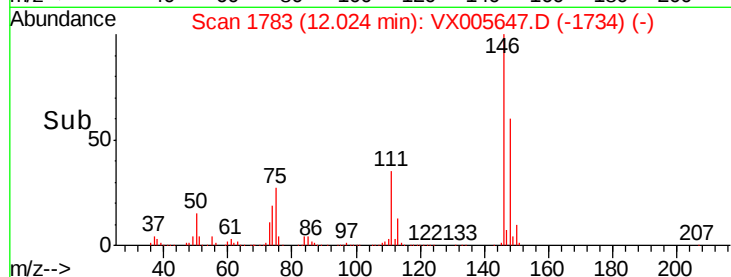
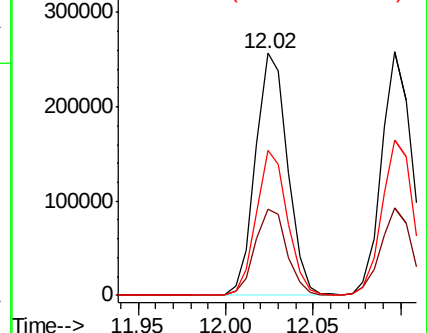
148 58.0 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 49.075 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

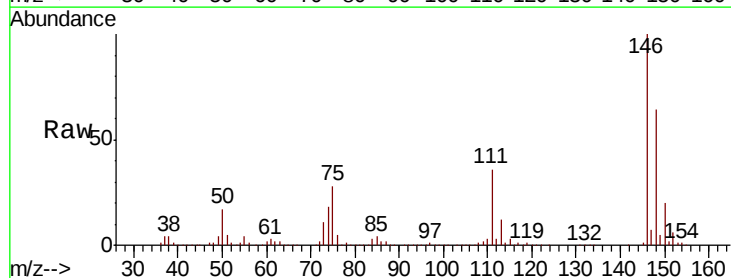
Tgt Ion:146 Resp: 313746

Ion Ratio Lower Upper

146 100

111 36.8 18.6 55.8

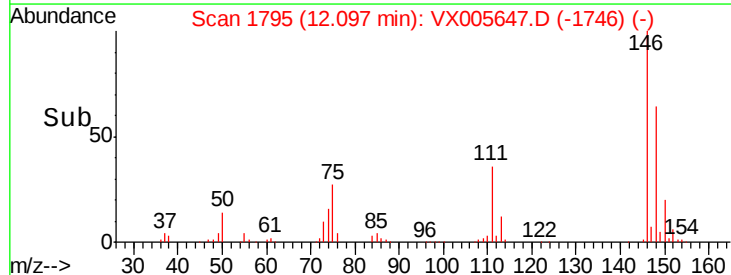
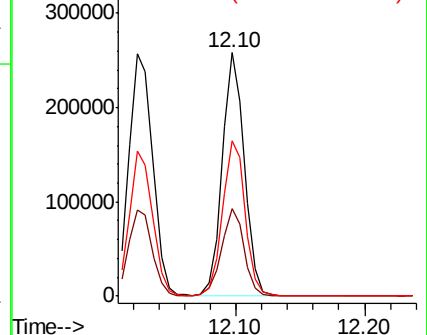
148 65.1 32.1 96.3

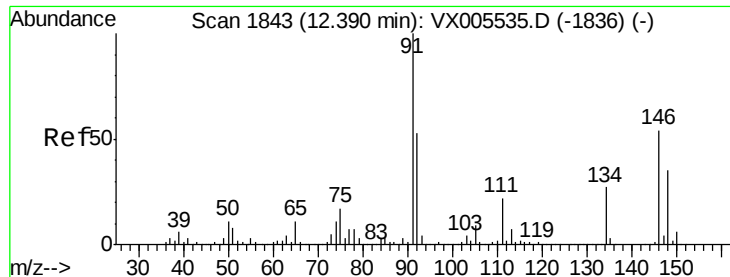


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 53.481 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

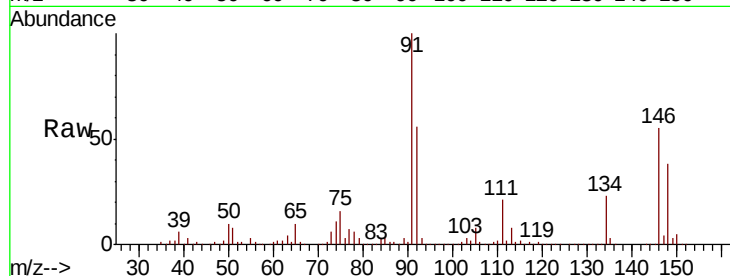
Tot Ion: 91 Resp: 513250

Ion Ratio Lower Upper

91 100

92 52.8 26.1 78.2

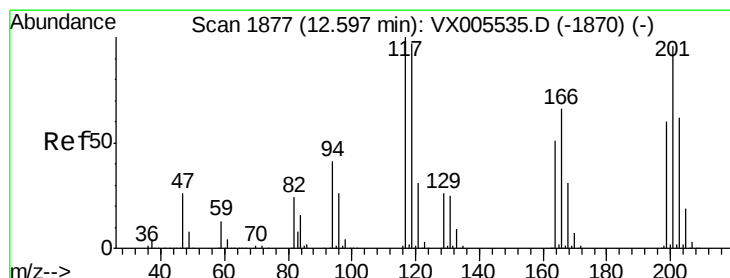
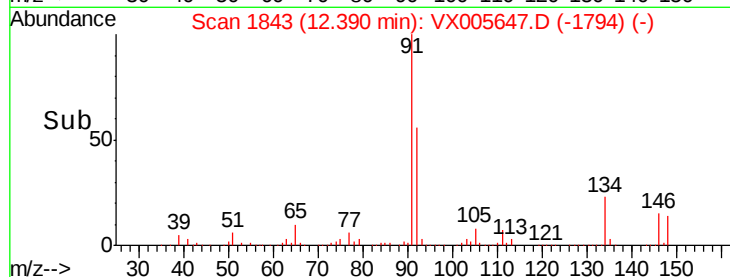
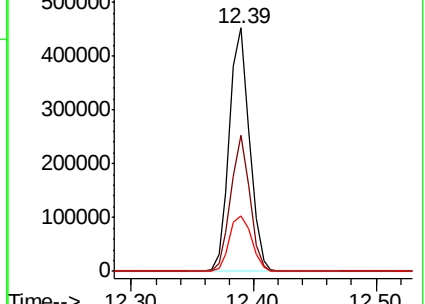
134 25.2 13.1 39.3



Abundance Ion 91.00 (90.70 to 91.70): VX005535.D (-1836) (-)

Ion 92.00 (91.70 to 92.70): VX005535.D (-1836) (-)

Ion 134.00 (133.70 to 134.70): VX005535.D (-1836) (-)



#90

Hexachloroethane

Concen: 53.644 ug/l

RT: 12.60 min Scan# 1877

Delta R.T. -0.00 min

Lab File: VX005647.D

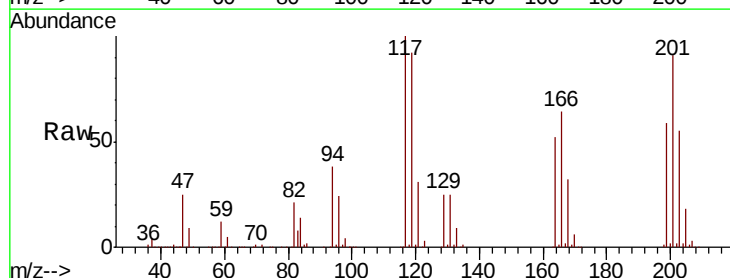
Acq: 27 Oct 2018 10:53

Tgt Ion: 117 Resp: 98354

Ion Ratio Lower Upper

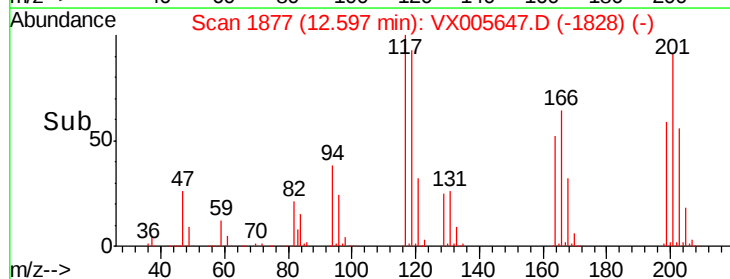
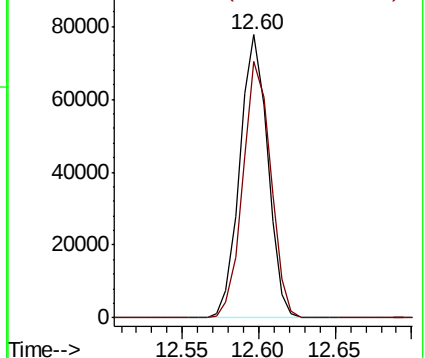
117 100

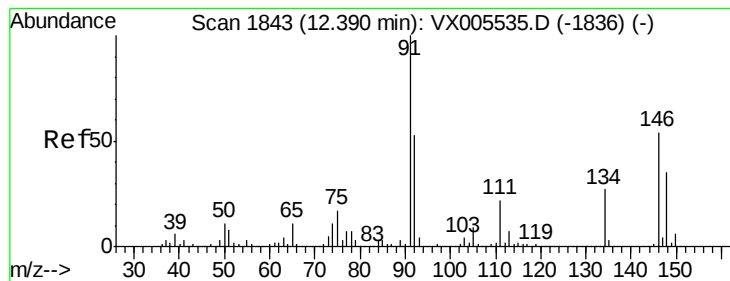
201 90.7 47.9 143.6



Abundance Ion 116.80 (116.50 to 117.50): VX005535.D (-1870) (-)

Ion 200.70 (200.40 to 201.40): VX005535.D (-1870) (-)





#91

1,2-Dichlorobenzene

Concen: 52.874 ug/l

RT: 12.40 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

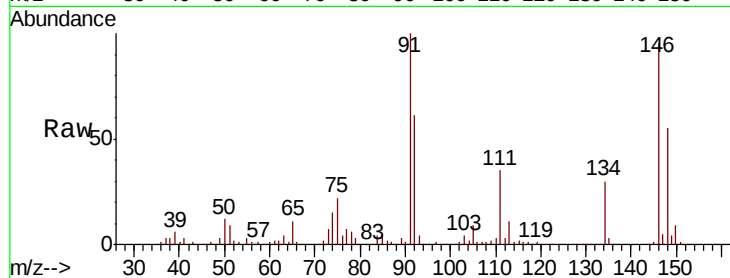
Tot Ion:146 Resp: 327641

Ion Ratio Lower Upper

146 100

111 38.8 20.0 59.9

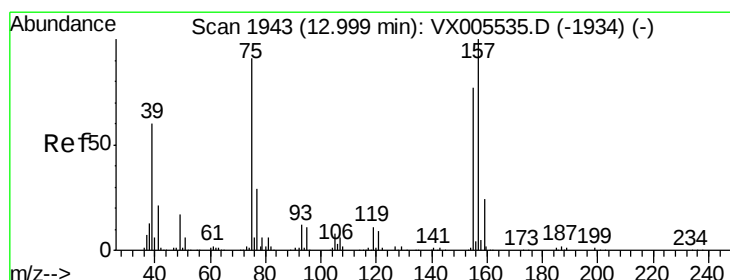
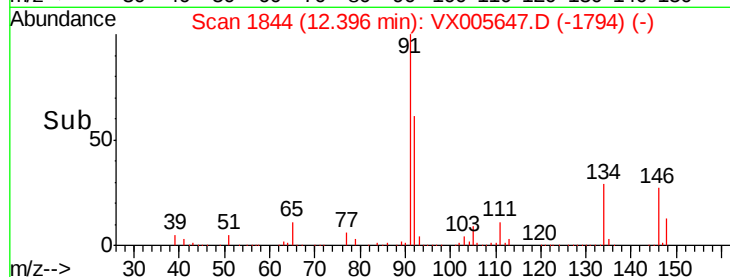
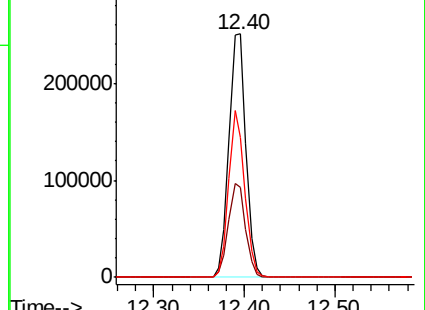
148 63.9 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 53.910 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

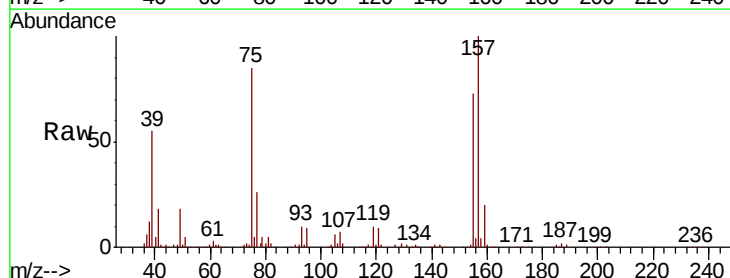
Tgt Ion: 75 Resp: 56203

Ion Ratio Lower Upper

75 100

155 86.6 45.4 136.1

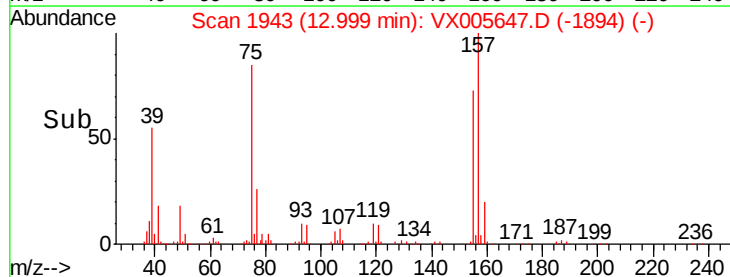
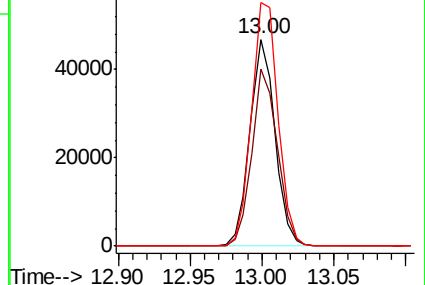
157 123.9 57.4 172.0

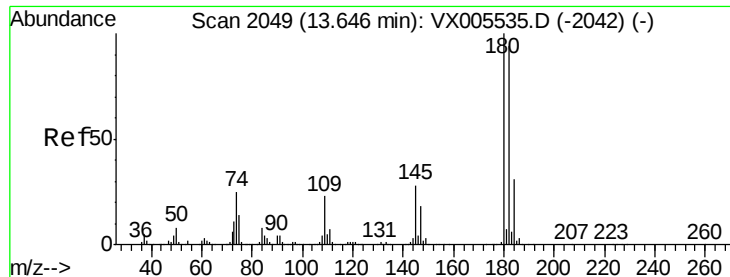


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

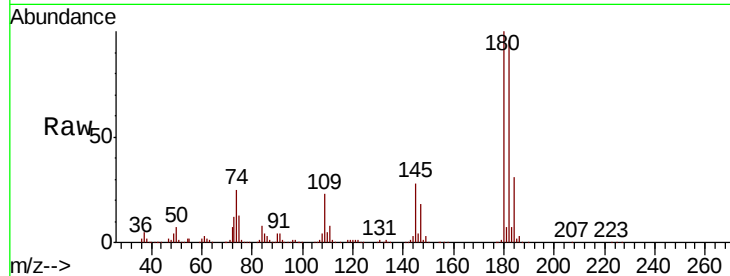




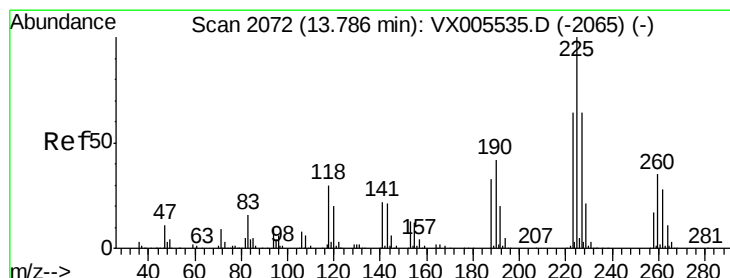
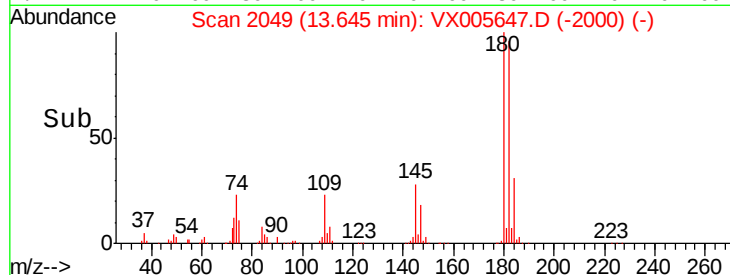
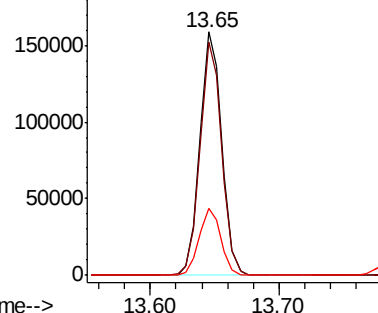
#93
1,2,4-Trichlorobenzene
Concen: 42.140 ug/l
RT: 13.65 min Scan# 2049
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :
FT-PZ459I-20181025MS

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.8
145	27.7	14.1	42.2

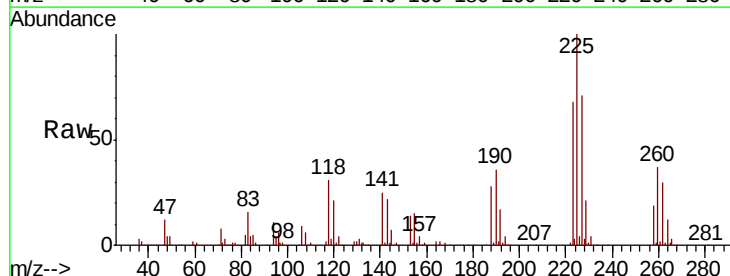


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

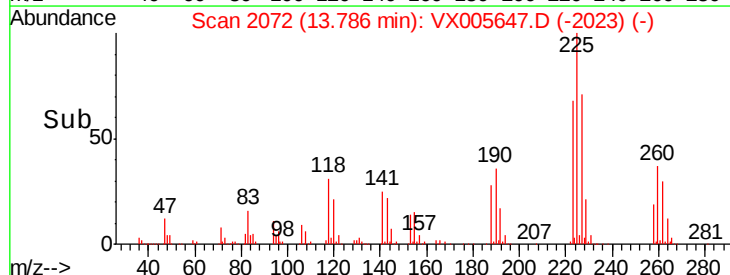
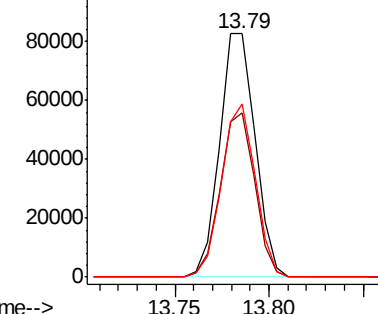


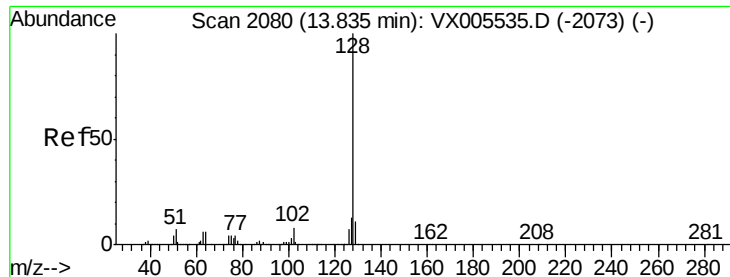
#94
Hexachlorobutadiene
Concen: 46.744 ug/l
RT: 13.79 min Scan# 2072
Delta R.T. -0.00 min
Lab File: VX005647.D
Acq: 27 Oct 2018 10:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.3	31.7	95.1
227	67.5	32.3	96.9



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 62.162 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ459I-20181025MS

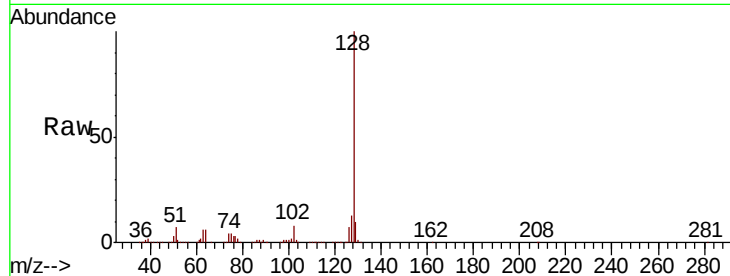
Tot Ion:128 Resp: 811656

Ion Ratio Lower Upper

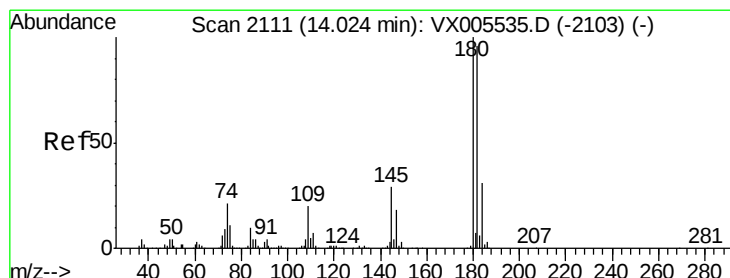
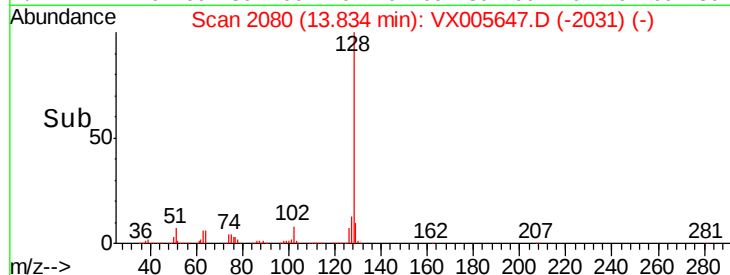
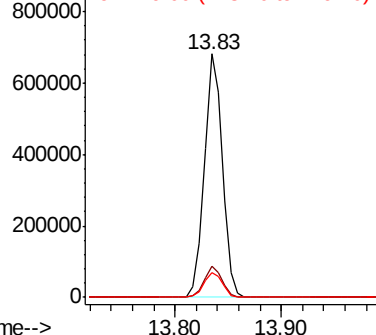
128 100

127 12.6 10.4 15.6

129 10.6 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 56.573 ug/l

RT: 14.02 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VX005647.D

Acq: 27 Oct 2018 10:53

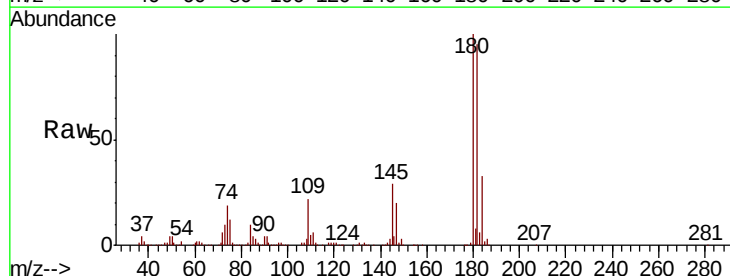
Tgt Ion:180 Resp: 257600

Ion Ratio Lower Upper

180 100

182 92.1 48.0 144.2

145 28.8 15.1 45.3



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

