

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014365.D
 Acq On : 30 Dec 2019 19:40
 Operator : JC/SP
 Sample : K6114-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EO-01-122719

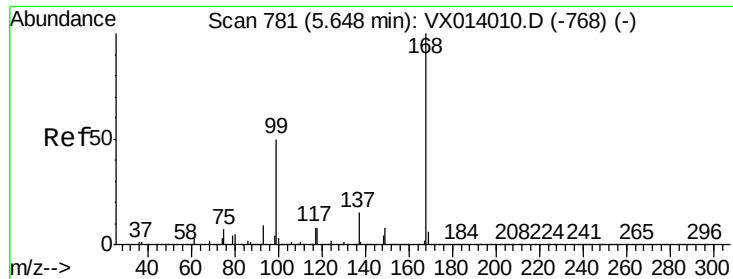
Quant Time: Dec 31 01:22:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	495813	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	779158	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	705712	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	304514	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	281999	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
35) Dibromofluoromethane	5.49	113	233325	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
50) Toluene-d8	8.71	98	936086	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	
62) 4-Bromofluorobenzene	11.14	95	314006	46.58	ug/l	0.00
Spiked Amount			Recovery	=	93.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.73	64	1777	0.458	ug/l #	68
10) Methyl Iodide	2.53	142	675	2.724	ug/l #	53
11) Tert butyl alcohol	3.01	59	5655	4.657	ug/l	98
16) Acetone	2.43	43	89742	24.599	ug/l	95
17) Carbon Disulfide	2.57	76	1061	0.829	ug/l #	1
18) Methyl Acetate	2.76	43	6815	0.943	ug/l	97
20) Methylene Chloride	2.85	84	11632	2.025	ug/l	93
25) 2-Butanone	4.67	43	10016	2.227	ug/l	98
28) Bromochloromethane	5.02	49	385	0.559	ug/l #	91
36) 1,1-Dichloropropene	5.65	75	33955	4.749	ug/l #	45
38) Carbon Tetrachloride	5.65	117	45928	7.052	ug/l #	16
43) Isopropyl Acetate	6.43	43	121741	9.318	ug/l	99
48) Methyl methacrylate	7.67	41	7227	1.130	ug/l #	17
49) 1,4-Dioxane	7.75	88	223	1.713	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	118709	14.467	ug/l #	50
54) cis-1,3-Dichloropropene	8.61	75	54206	6.321	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	9184	0.980	ug/l #	47
59) 2-Hexanone	9.54	43	116925	17.702	ug/l #	50
74) N-amyl acetate	10.82	43	6258	0.623	ug/l #	53
76) 1,2,3-Trichloropropane	11.14	75	150346	22.742	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	150346	64.190	ug/l #	11
95) Naphthalene	13.83	128	50369	2.534	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

Instrument :

MSVOA_X

ClientSampleId :

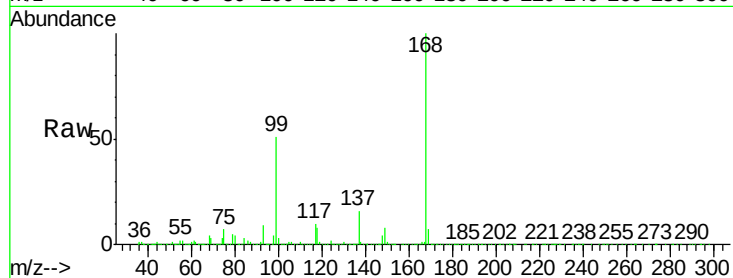
EO-O1-122719

Tot Ion:168 Resp: 495813

Ion Ratio Lower Upper

168 100

99 50.6 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

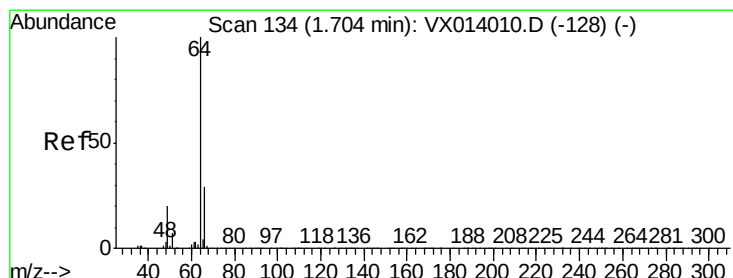
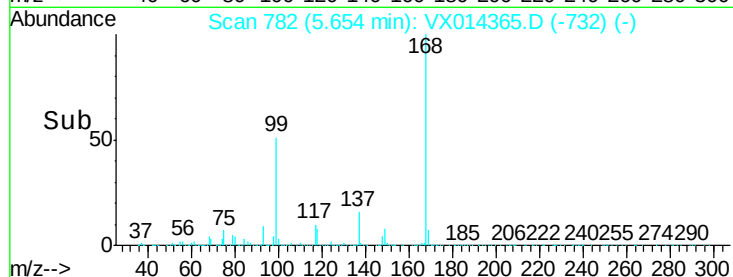
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.458 ug/l

RT: 1.73 min Scan# 138

Delta R.T. 0.02 min

Lab File: VX014365.D

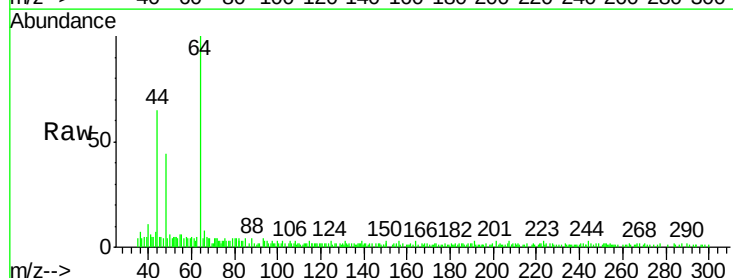
Acq: 30 Dec 2019 19:40

Tgt Ion: 64 Resp: 1777

Ion Ratio Lower Upper

64 100

66 12.0 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

8000

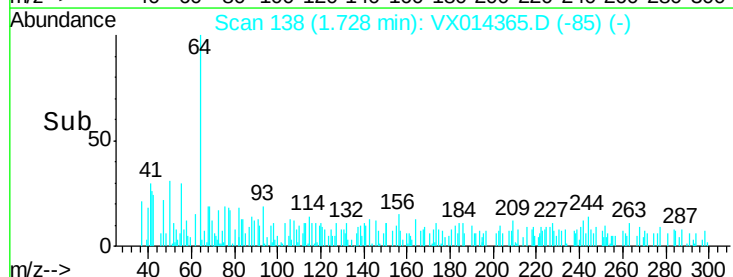
6000

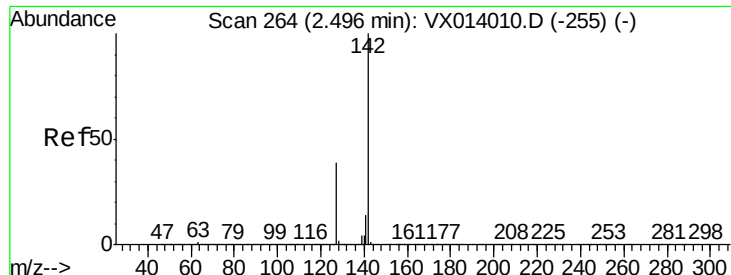
4000

2000

0

Time-->

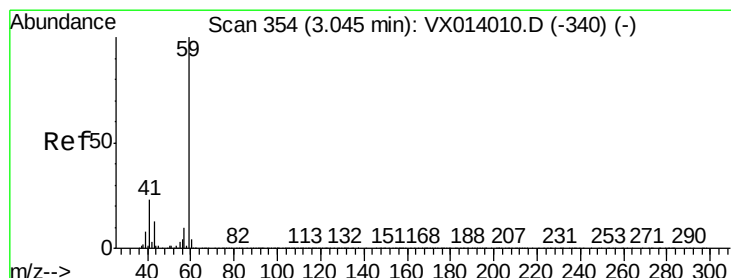
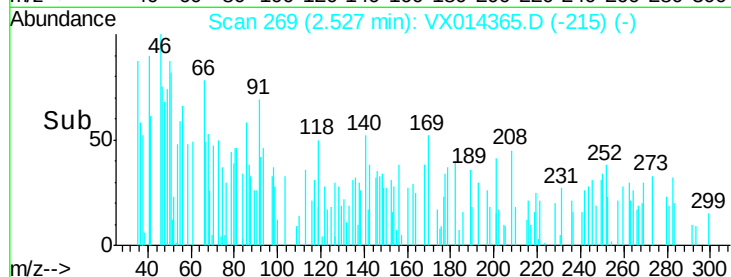
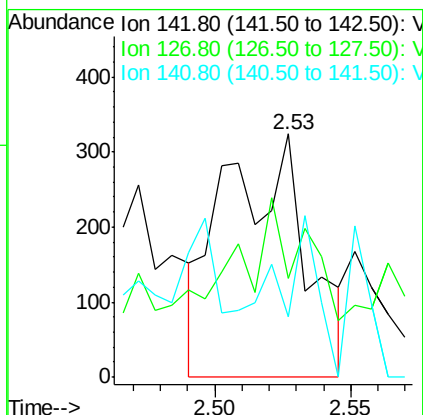
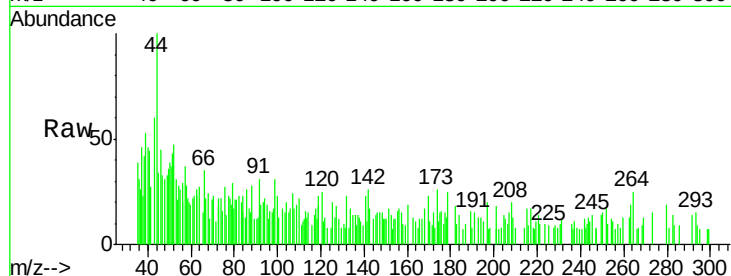




#10
Methyl Iodide
Concen: 2.724 ug/l
RT: 2.53 min Scan# 269
Delta R.T. 0.03 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

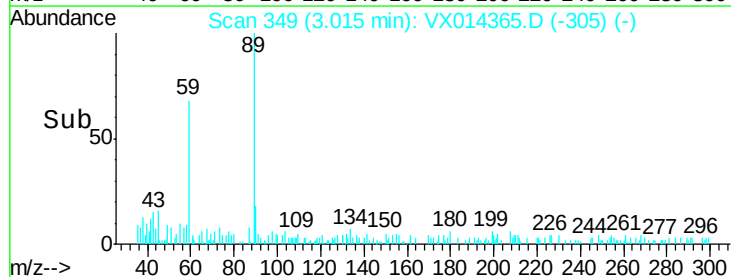
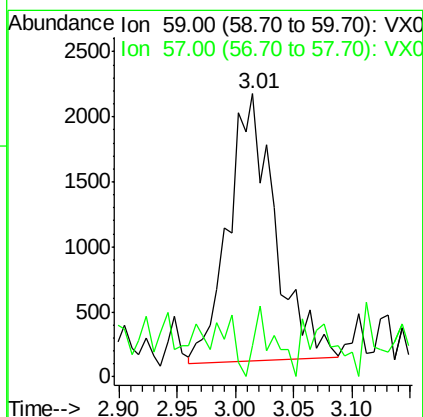
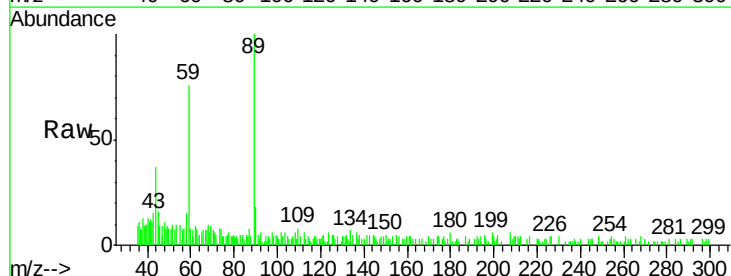
Instrument :
MSVOA_X
ClientSampled :
EO-O1-122719

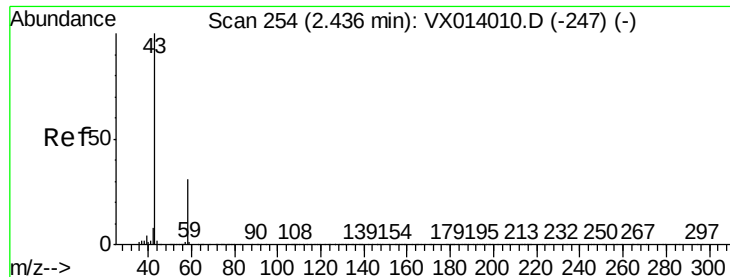
Tot Ion:142 Resp: 675
Ion Ratio Lower Upper
142 100
127 67.4 31.6 47.4#
141 35.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 4.657 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.03 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

Tgt Ion: 59 Resp: 5655
Ion Ratio Lower Upper
59 100
57 11.2 8.4 12.6





#16

Acetone

Concen: 24.599 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

Instrument :

MSVOA_X

ClientSampleId :

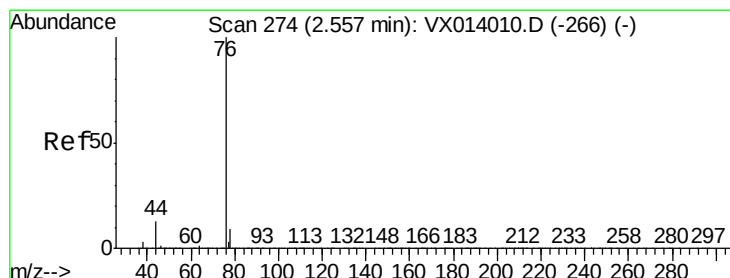
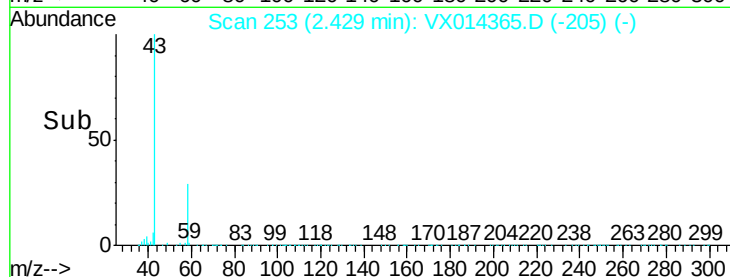
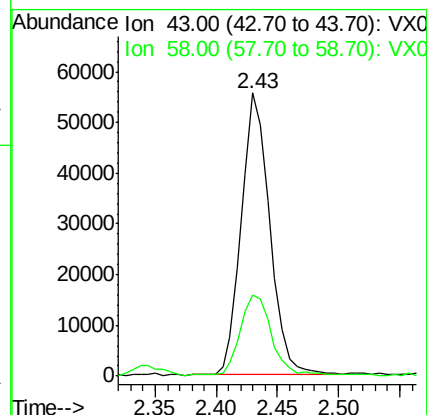
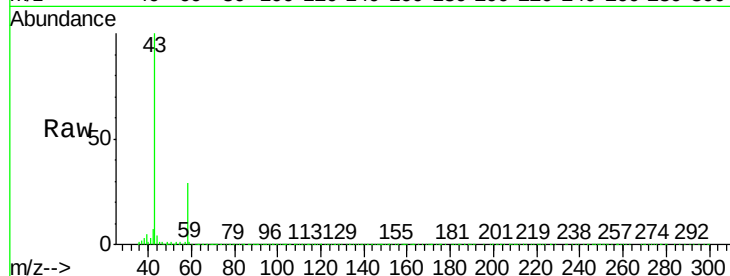
EO-O1-122719

Tot Ion: 43 Resp: 89742

Ion Ratio Lower Upper

43 100

58 28.5 24.9 37.3



#17

Carbon Disulfide

Concen: 0.829 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014365.D

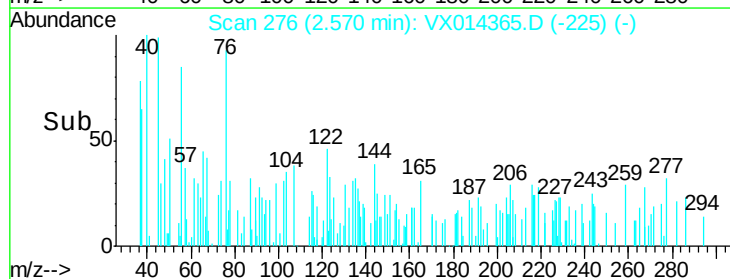
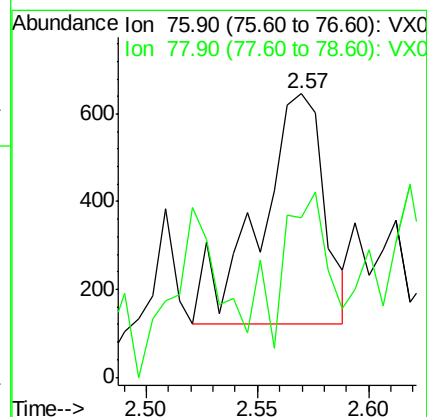
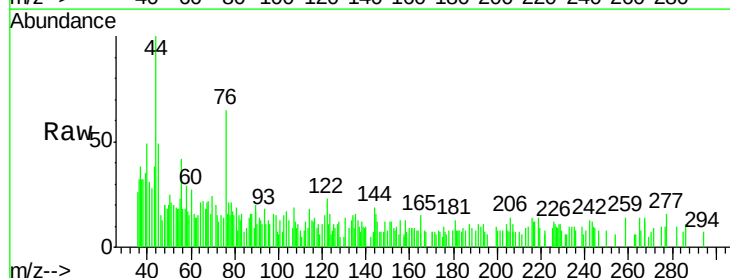
Acq: 30 Dec 2019 19:40

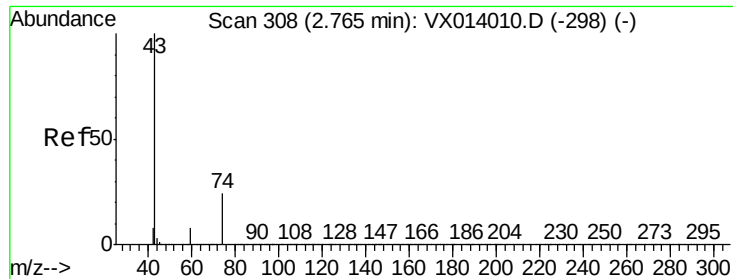
Tgt Ion: 76 Resp: 1061

Ion Ratio Lower Upper

76 100

78 51.6 7.2 10.8#

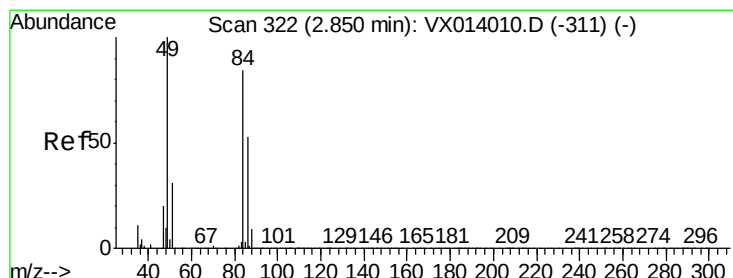
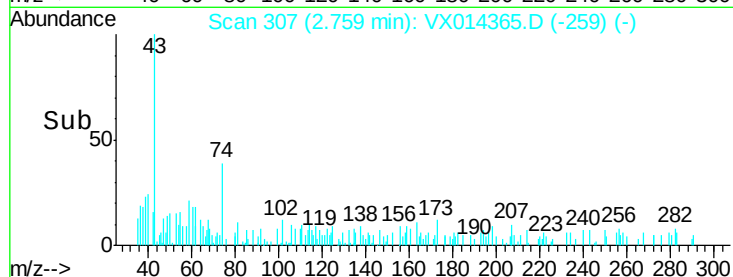
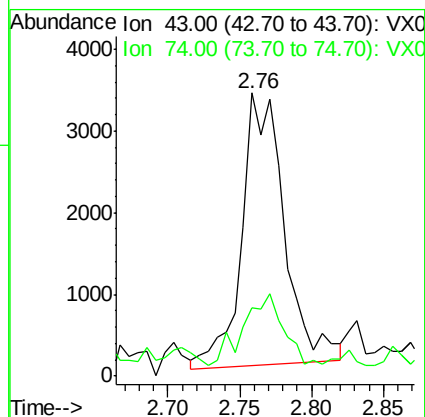
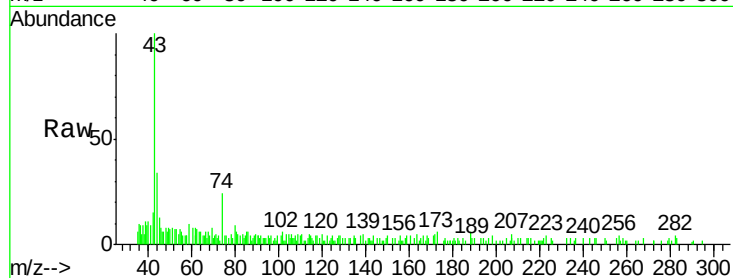




#18
Methyl Acetate
Concen: 0.943 ug/l
RT: 2.76 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

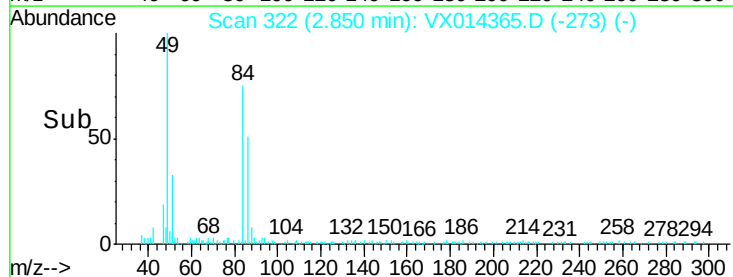
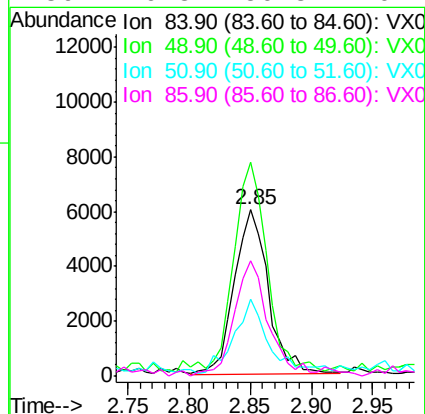
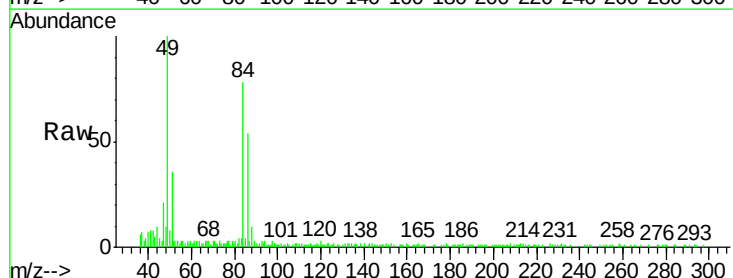
Instrument :
MSVOA_X
ClientSampleId :
EO-O1-122719

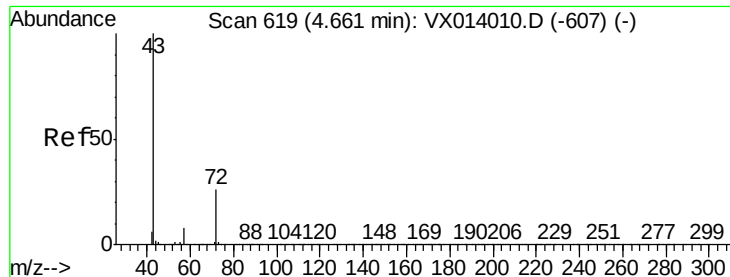
Tot Ion: 43 Resp: 6815
Ion Ratio Lower Upper
43 100
74 25.9 19.5 29.3



#20
Methylene Chloride
Concen: 2.025 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

Tgt Ion: 84 Resp: 11632
Ion Ratio Lower Upper
84 100
49 125.1 95.8 143.6
51 43.6 29.8 44.8
86 70.3 50.8 76.2





#25

2-Butanone

Concen: 2.227 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

Instrument :

MSVOA_X

ClientSampled :

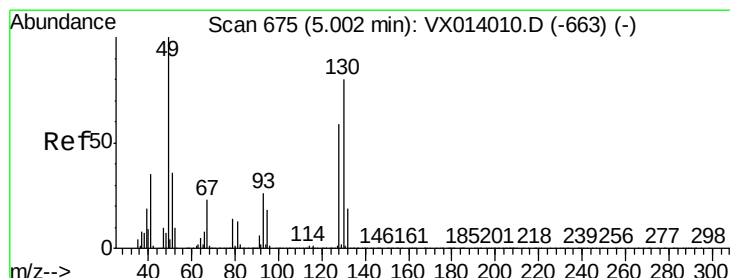
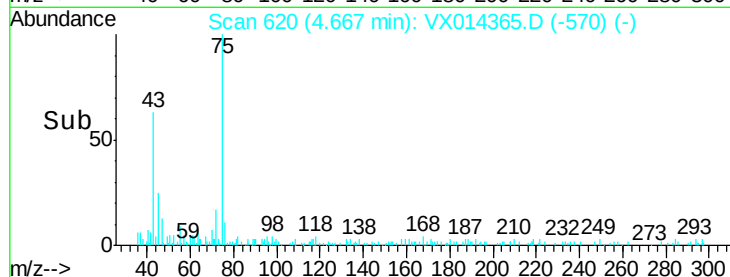
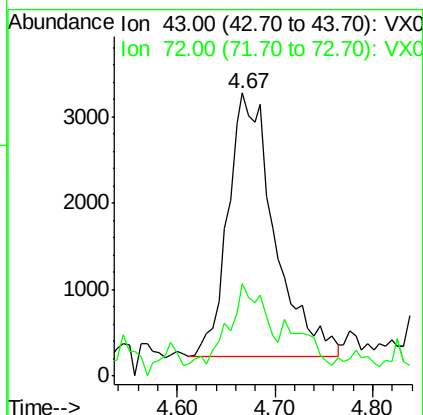
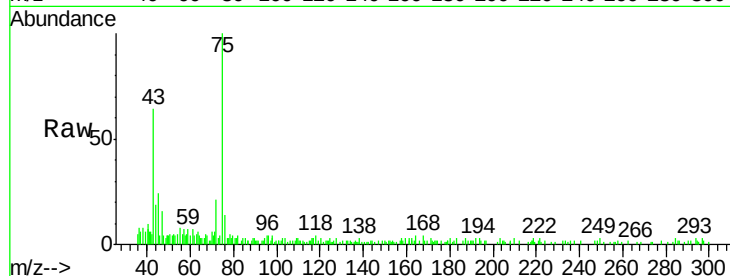
EO-O1-122719

Tot Ion: 43 Resp: 10016

Ion Ratio Lower Upper

43 100

72 27.2 21.0 31.4



#28

Bromochloromethane

Concen: 0.559 ug/l

RT: 5.02 min Scan# 678

Delta R.T. 0.02 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

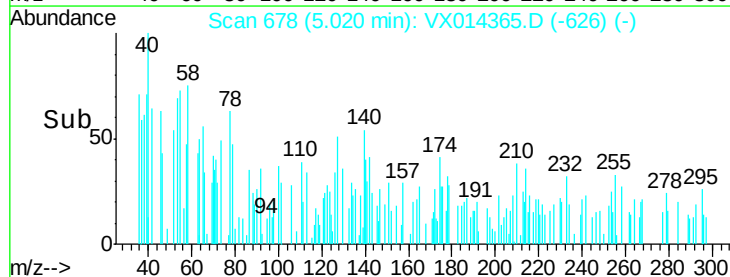
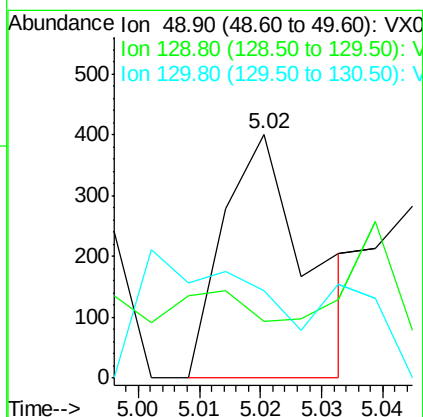
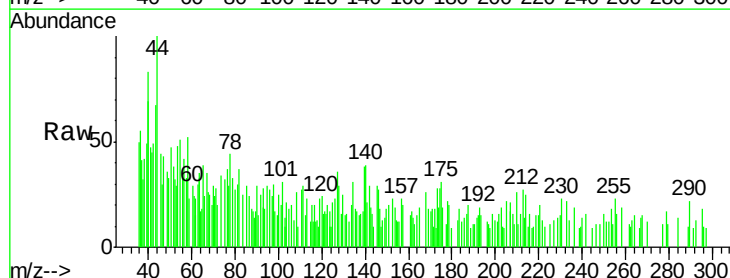
Tgt Ion: 49 Resp: 385

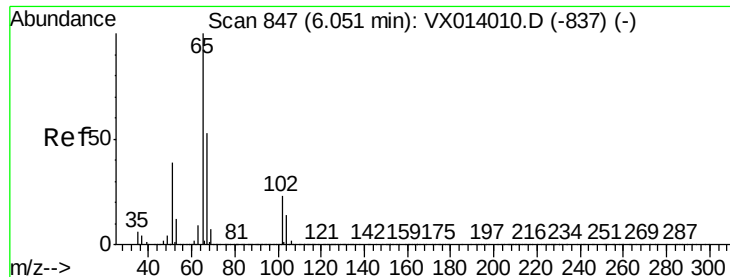
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 73.0 64.6 97.0





#33

1,2-Dichloroethane-d4

Concen: 50.184 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

Instrument :

MSVOA_X

ClientSampleId :

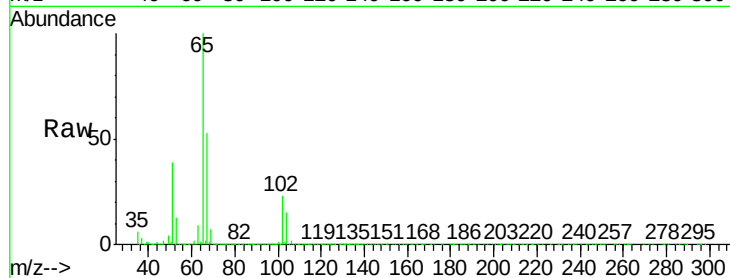
EO-O1-122719

Tot Ion: 65 Resp: 281999

Ion Ratio Lower Upper

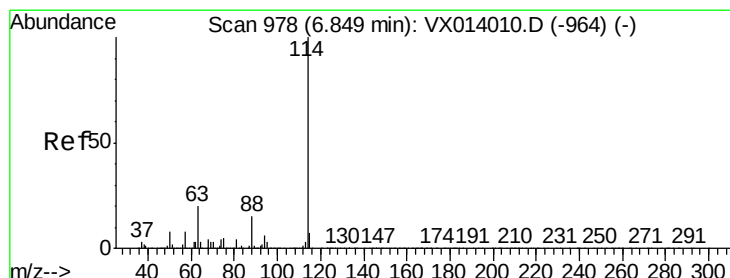
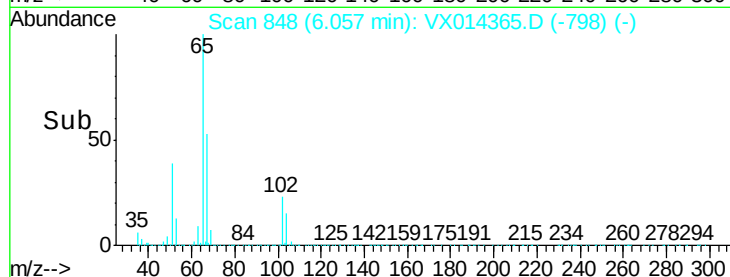
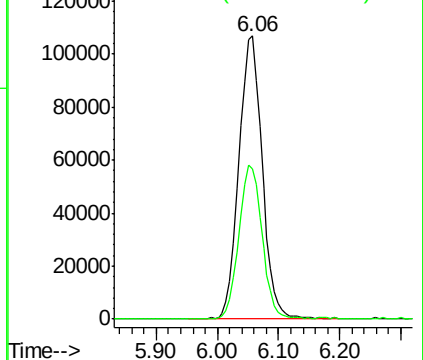
65 100

67 54.1 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

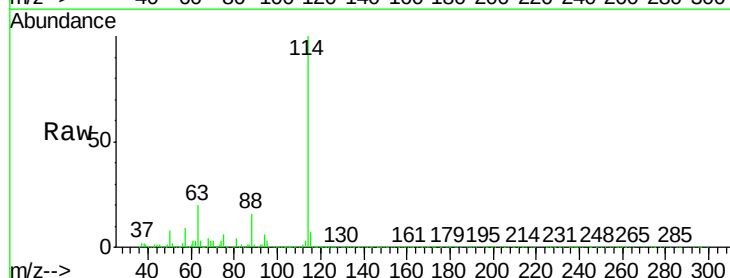
Tgt Ion: 114 Resp: 779158

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

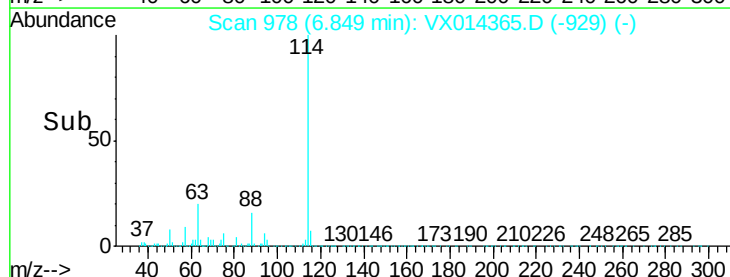
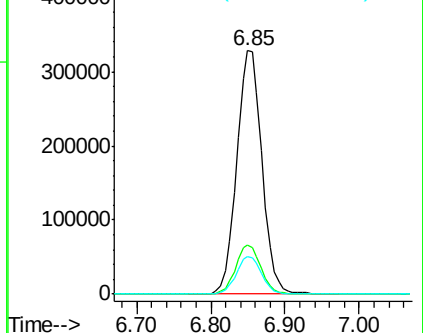
88 15.6 0.0 30.4

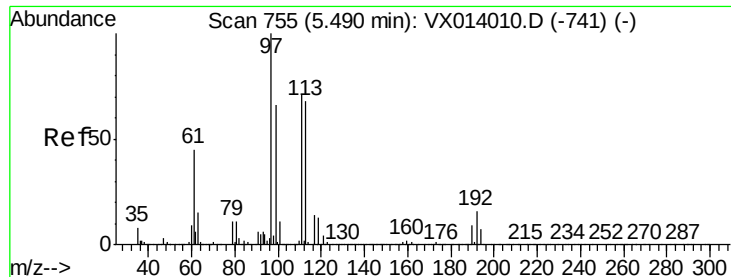


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

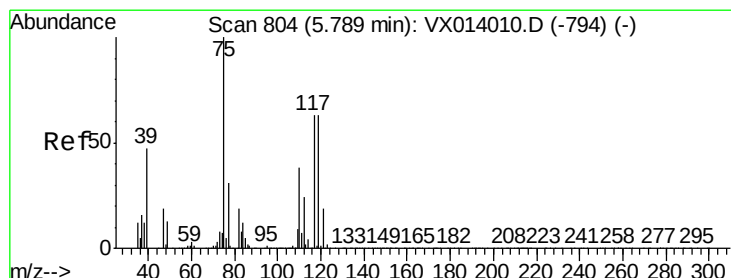
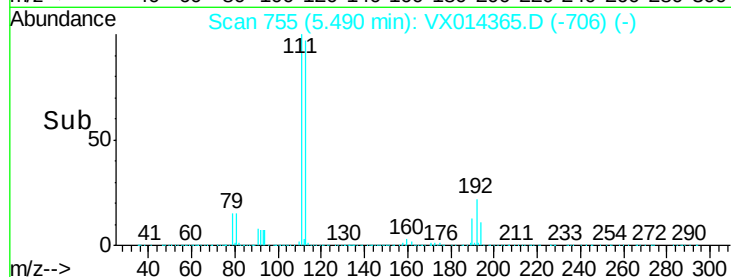
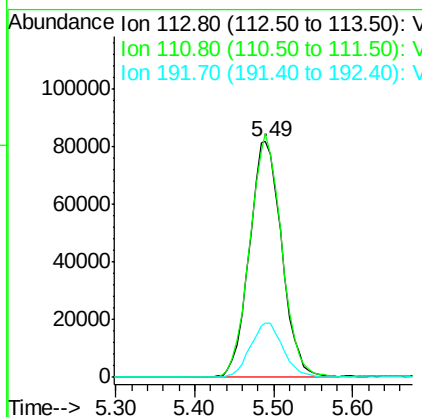
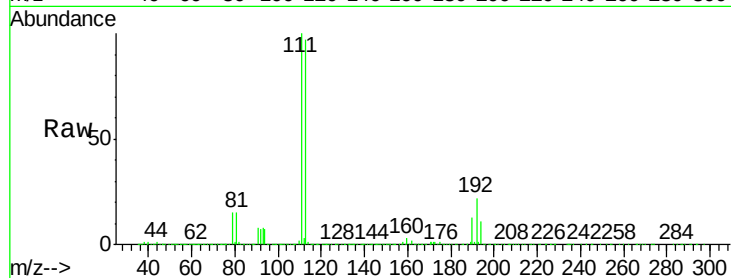




#35
Dibromofluoromethane
Concen: 49.262 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

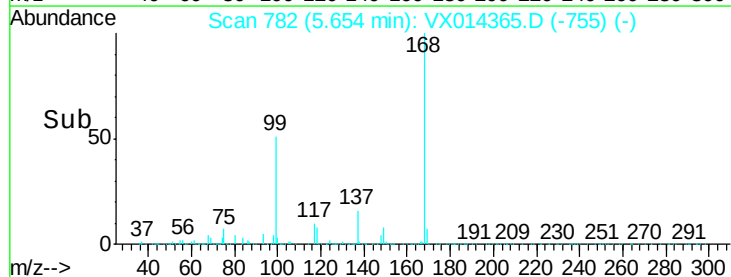
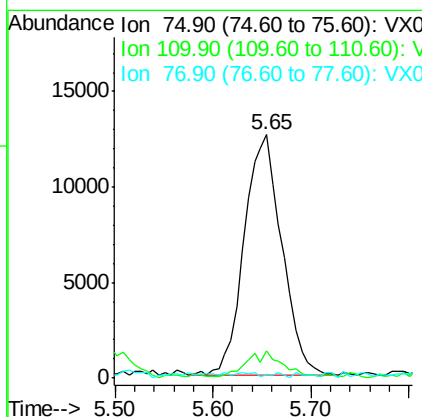
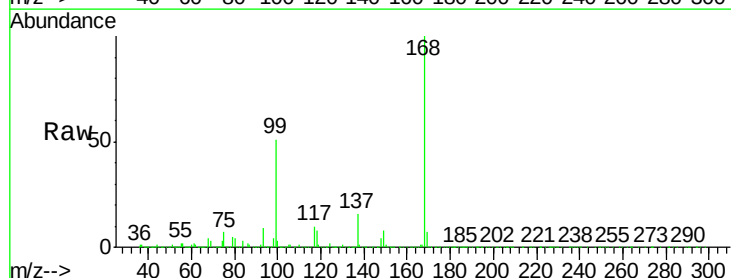
Instrument :
MSVOA_X
ClientSampled :
EO-O1-122719

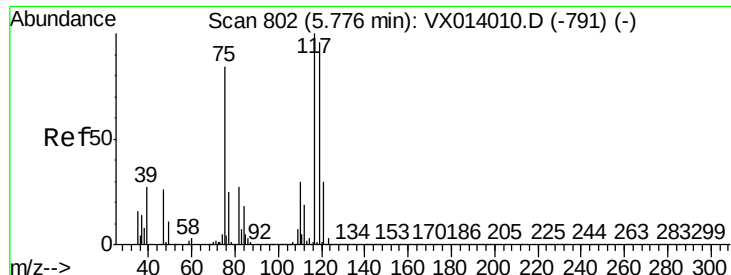
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.0	123.0
192	23.6	19.3	28.9



#36
1,1-Dichloropropene
Concen: 4.749 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.13 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.5	18.3	54.9#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 7.052 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

Instrument :

MSVOA_X

ClientSampleId :

EO-O1-122719

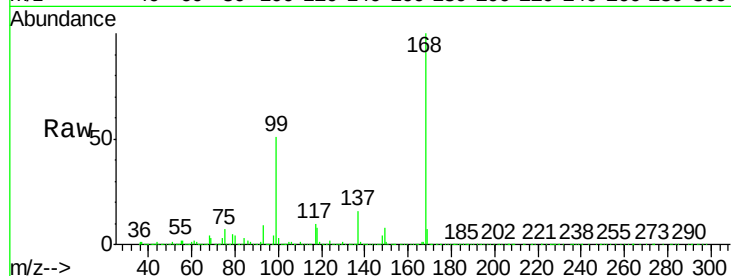
Tot Ion:117 Resp: 45928

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.4#

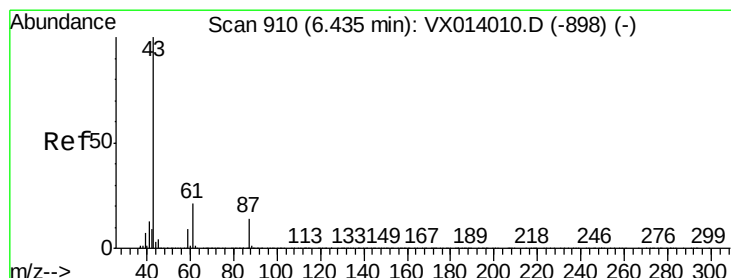
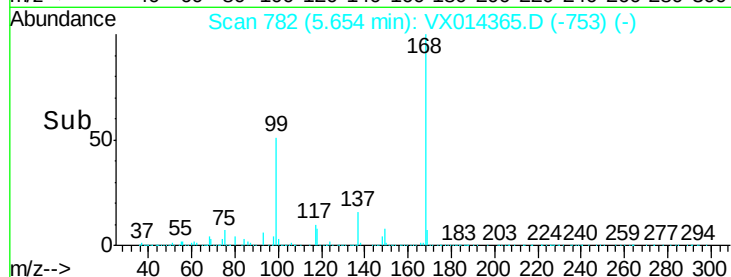
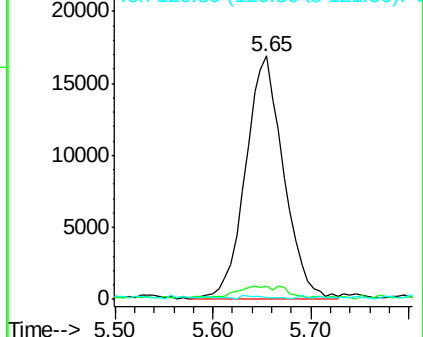
121 0.2 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 9.318 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

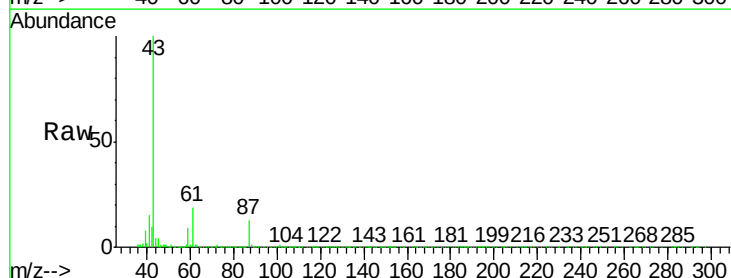
Tgt Ion: 43 Resp: 121741

Ion Ratio Lower Upper

43 100

61 20.4 16.4 24.6

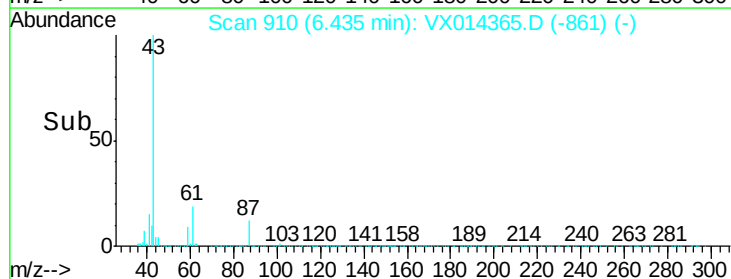
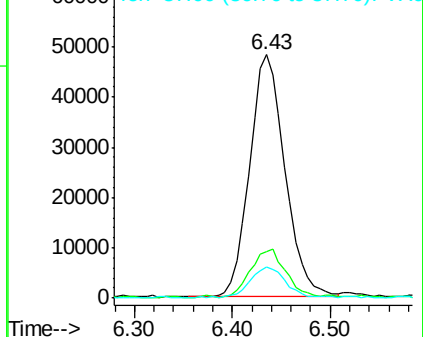
87 12.7 10.7 16.1

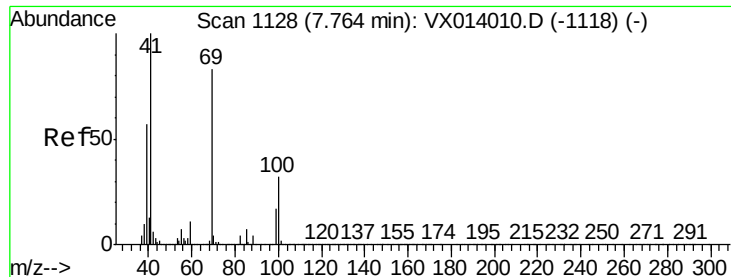


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 1.130 ug/l

RT: 7.67 min Scan# 1113

Delta R.T. -0.09 min

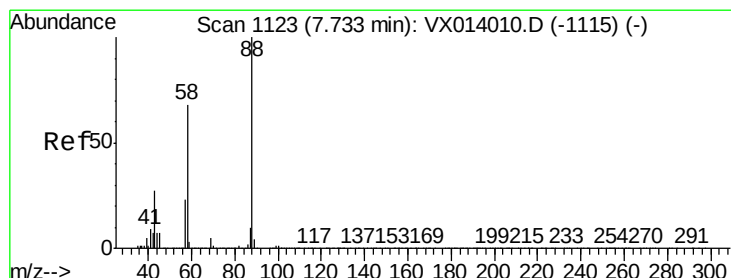
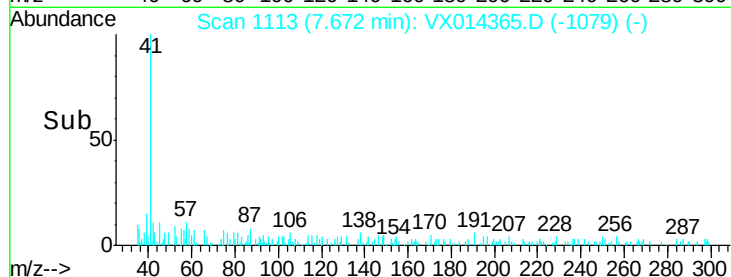
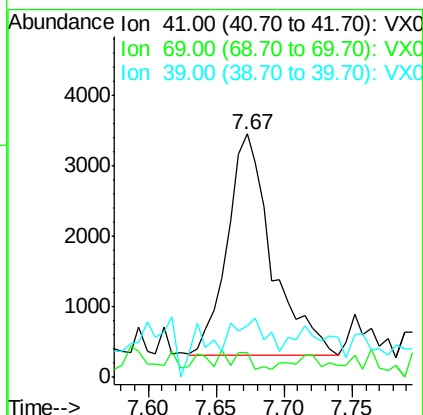
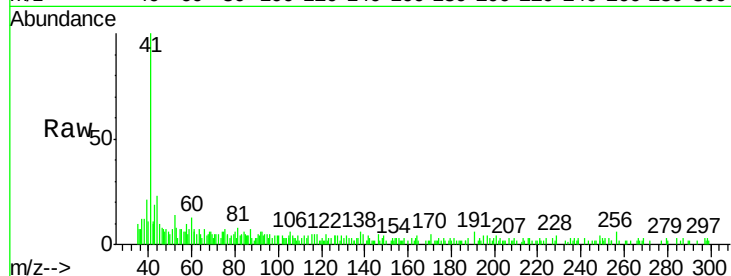
Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

Instrument :
MSVOA_X
ClientSampleId :
EO-O1-122719

Tot Ion: 41 Resp: 7227

Ion	Ratio	Lower	Upper
41	100		
69	4.1	65.8	98.6#
39	0.0	44.6	67.0#



#49

1,4-Dioxane

Concen: 1.713 ug/l

RT: 7.75 min Scan# 1125

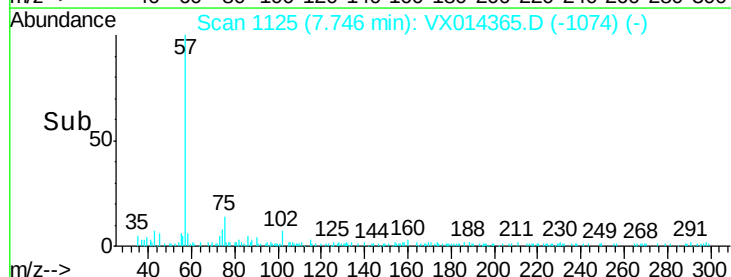
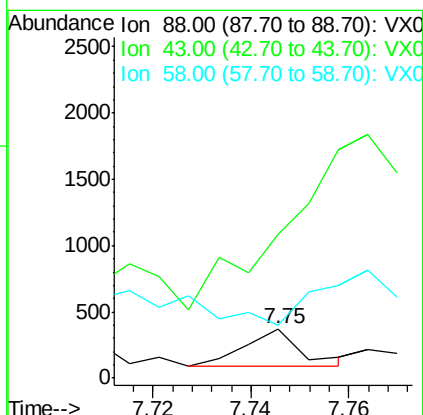
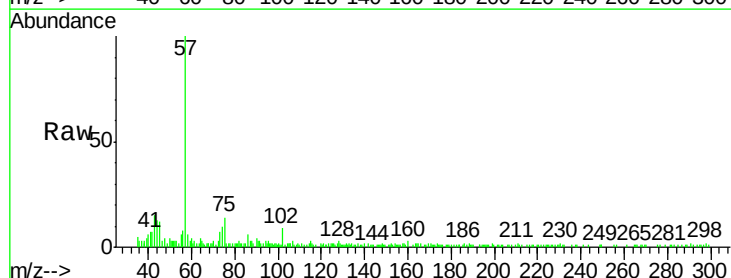
Delta R.T. 0.01 min

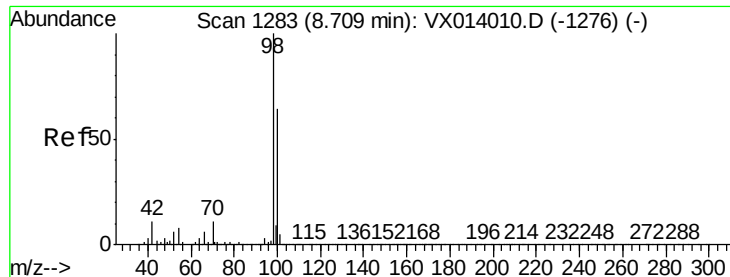
Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

Tgt Ion: 88 Resp: 223

Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.5	39.7#
58	0.0	56.8	85.2#





#50

Toluene-d8

Concen: 50.764 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

Instrument :

MSVOA_X

ClientSampleId :

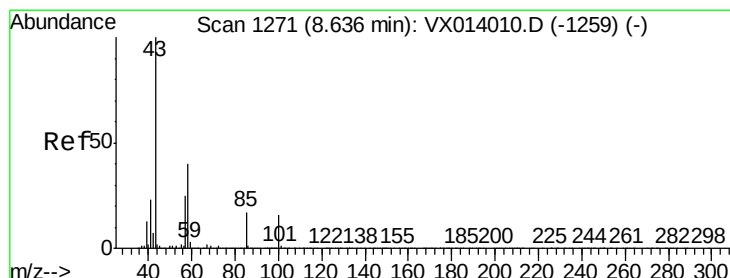
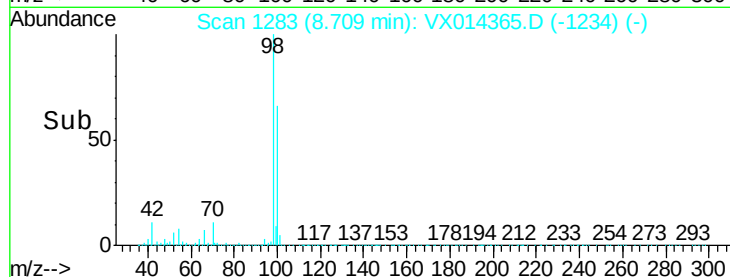
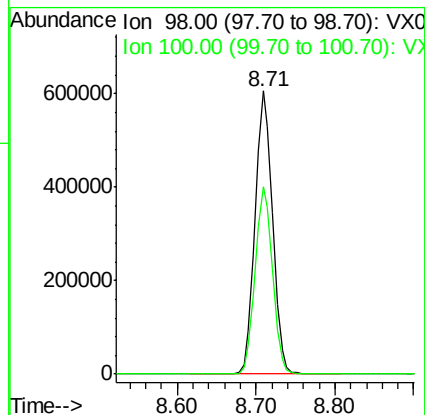
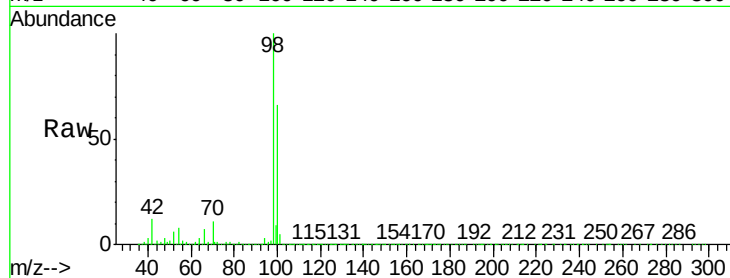
EO-O1-122719

Tot Ion: 98 Resp: 936086

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 14.467 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014365.D

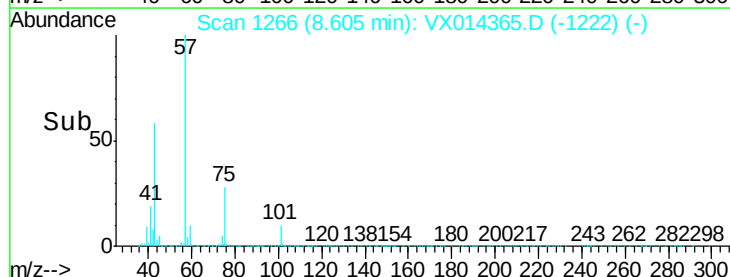
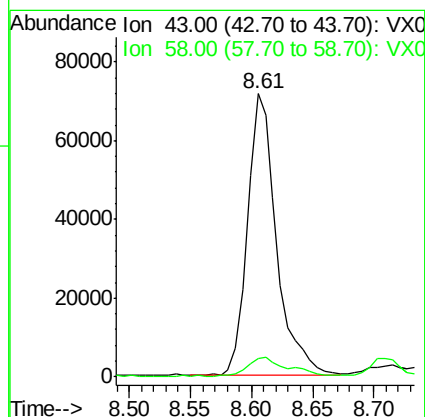
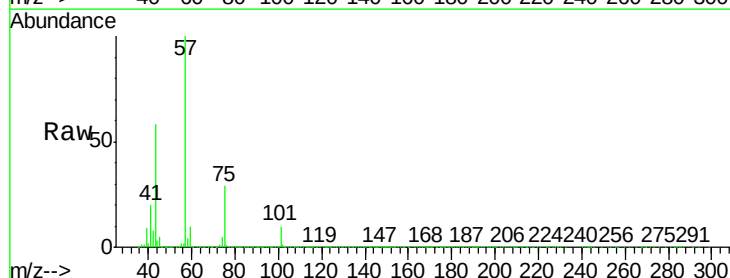
Acq: 30 Dec 2019 19:40

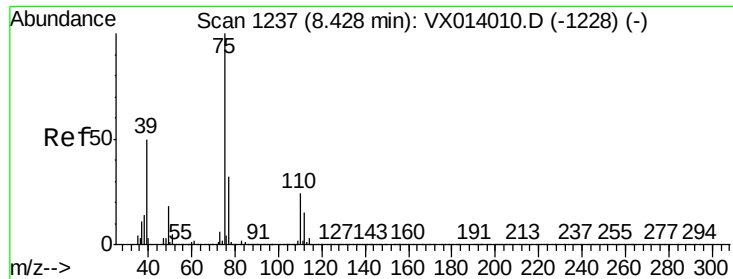
Tgt Ion: 43 Resp: 118709

Ion Ratio Lower Upper

43 100

58 9.4 32.2 48.2#





#54

cis-1,3-Dichloropropene

Concen: 6.321 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

Instrument :

MSVOA_X

ClientSampleId :

EO-O1-122719

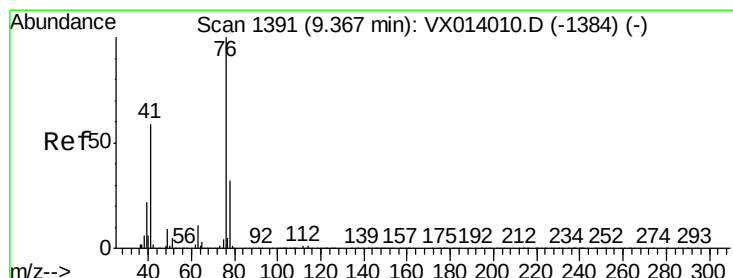
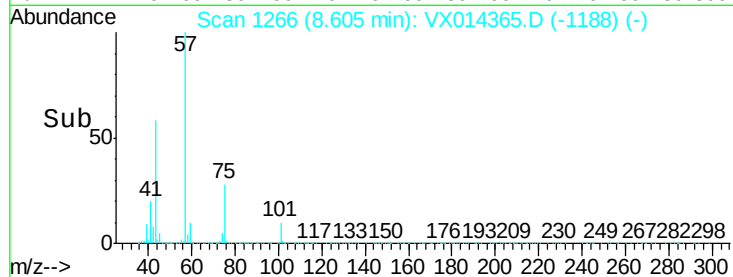
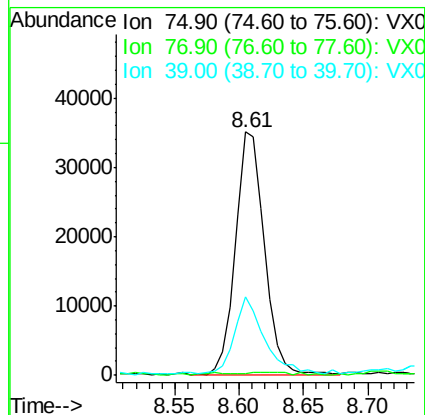
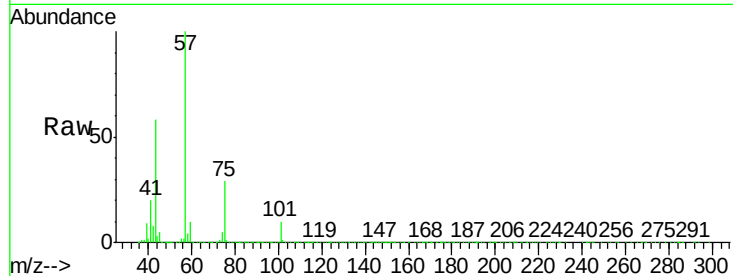
Tot Ion: 75 Resp: 54206

Ion Ratio Lower Upper

75 100

77 0.3 25.3 37.9#

39 31.6 39.9 59.9#



#57

1,3-Dichloropropane

Concen: 0.980 ug/l

RT: 9.54 min Scan# 1419

Delta R.T. 0.17 min

Lab File: VX014365.D

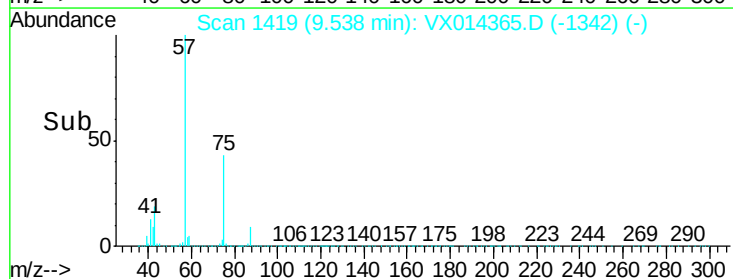
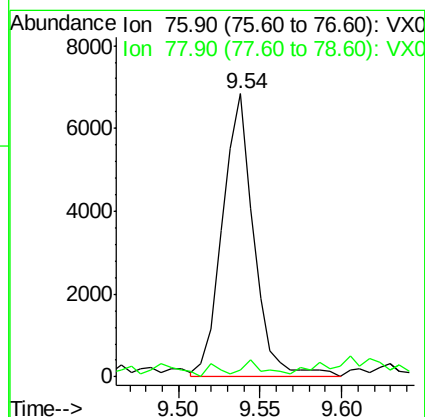
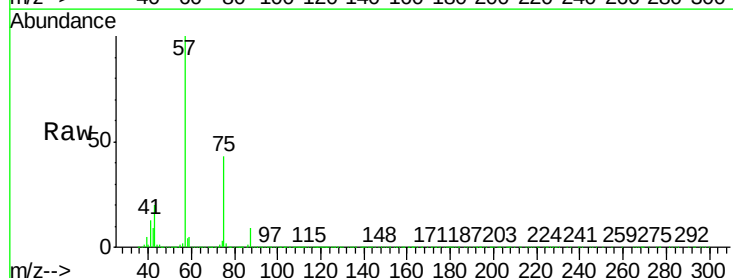
Acq: 30 Dec 2019 19:40

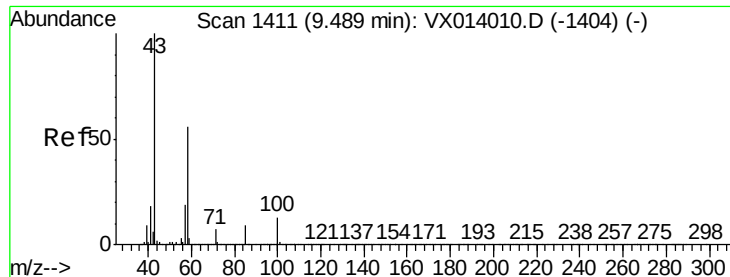
Tgt Ion: 76 Resp: 9184

Ion Ratio Lower Upper

76 100

78 2.8 25.8 38.6#

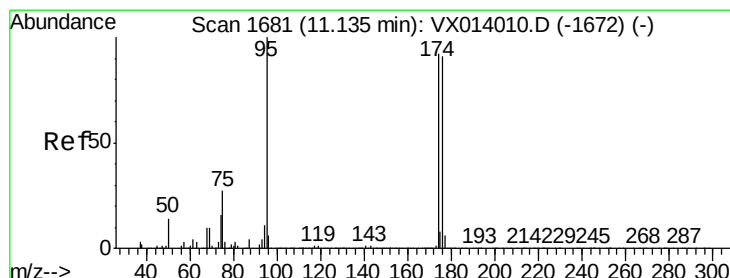
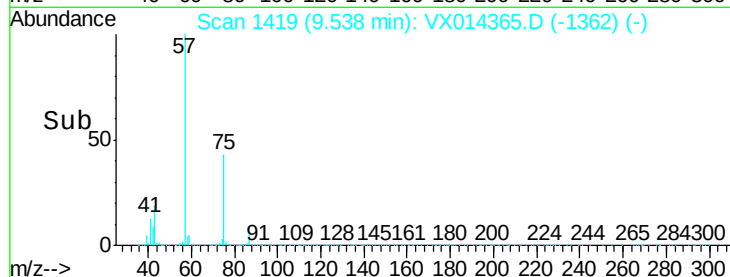
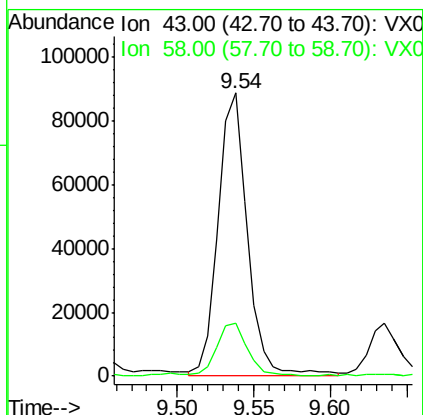
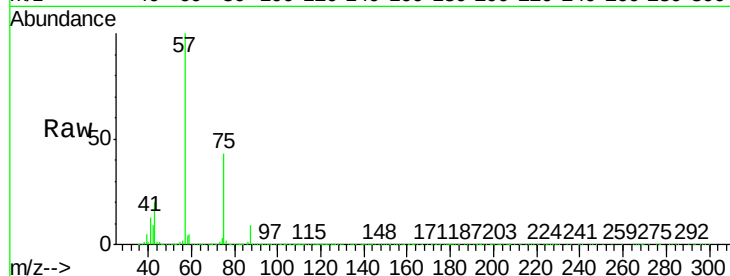




#59
2-Hexanone
Concen: 17.702 ug/l
RT: 9.54 min Scan# 1419
Delta R.T. 0.05 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

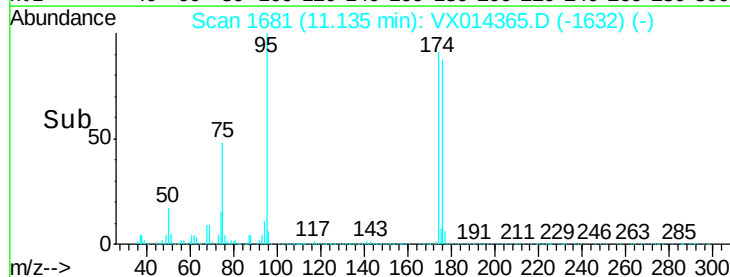
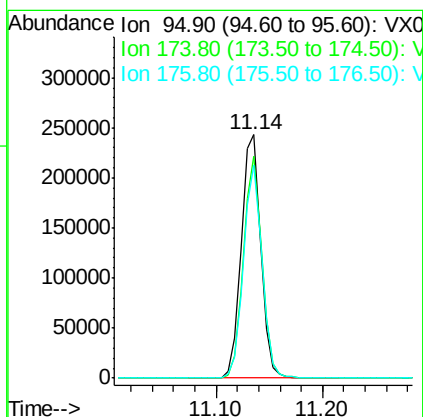
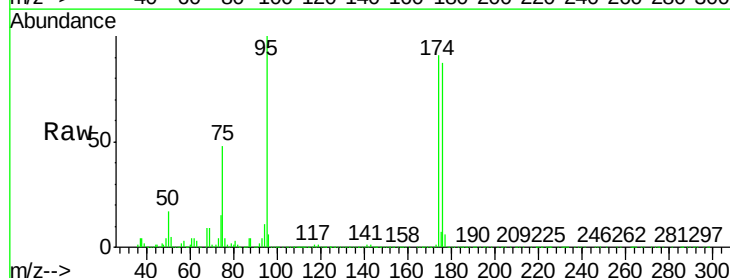
Instrument :
MSVOA_X
ClientSampleId :
EO-O1-122719

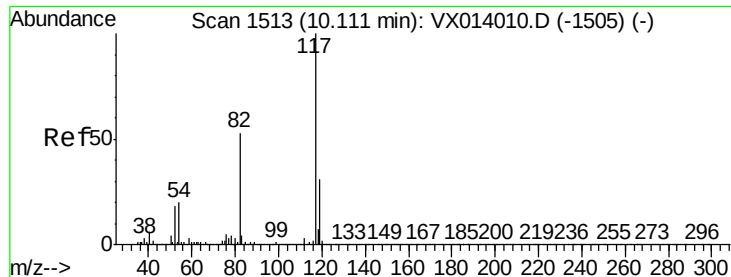
Tot Ion: 43 Resp: 116925
Ion Ratio Lower Upper
43 100
58 19.6 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 46.584 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

Tgt Ion: 95 Resp: 314006
Ion Ratio Lower Upper
95 100
174 86.6 0.0 175.8
176 83.7 0.0 173.0

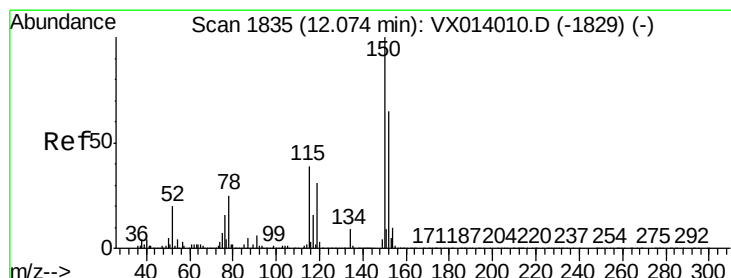
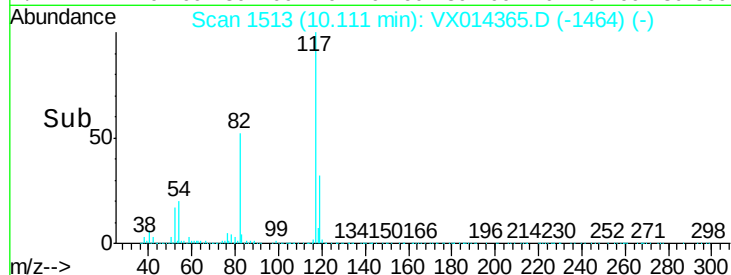
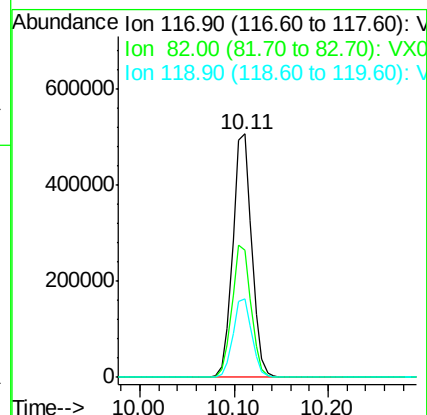
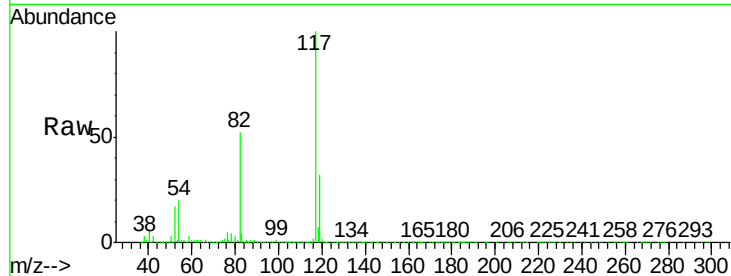




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

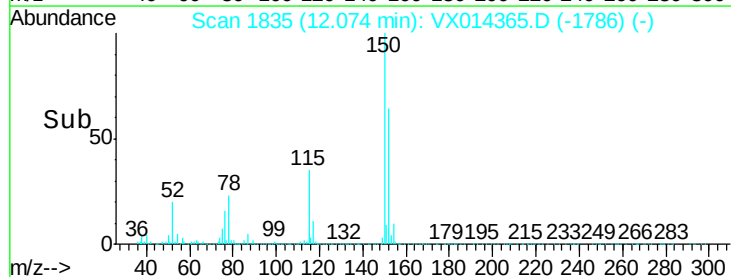
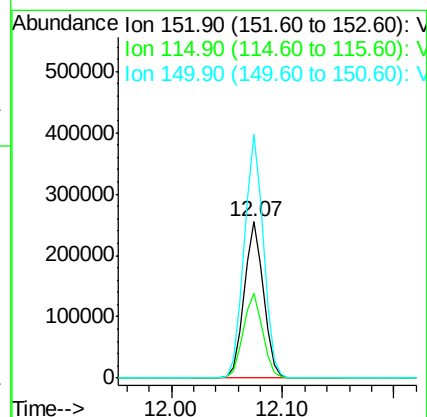
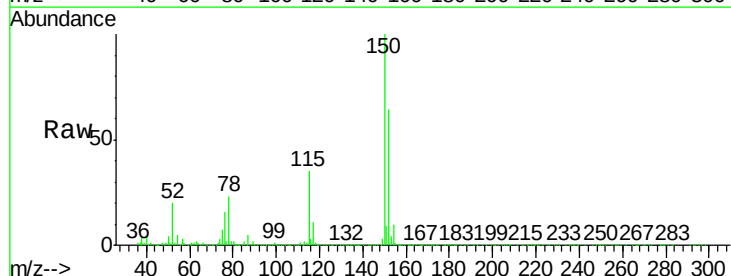
Instrument :
MSVOA_X
ClientSampleId :
EO-O1-122719

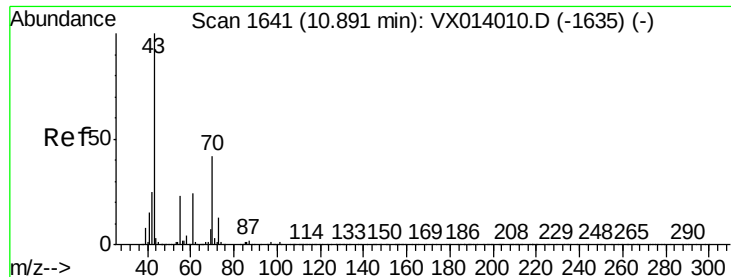
Tot Ion:117 Resp: 705712
Ion Ratio Lower Upper
117 100
82 52.5 42.2 63.4
119 32.1 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

Tgt Ion:152 Resp: 304514
Ion Ratio Lower Upper
152 100
115 55.0 38.3 114.9
150 156.3 0.0 345.4





#74

N-amvl acetate

Concen: 0.623 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX014365.D

Acq: 30 Dec 2019 19:40

Instrument :

MSVOA_X

ClientSampleId :

EO-O1-122719

Tot Ion: 43 Resp: 6258

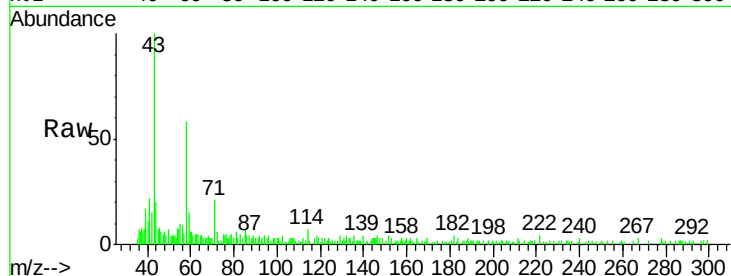
Ion Ratio Lower Upper

43 100

70 0.0 34.4 51.6#

55 10.9 19.1 28.7#

61 7.9 19.7 29.5#

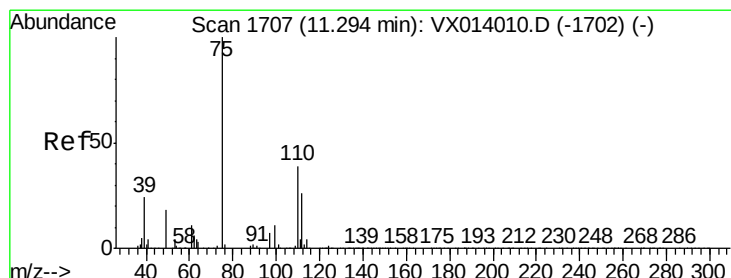
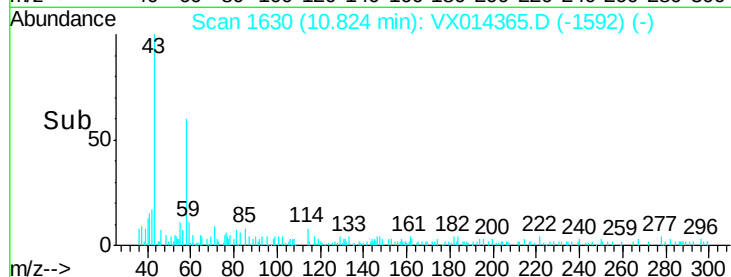
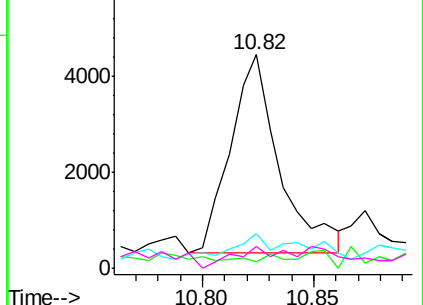


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.742 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX014365.D

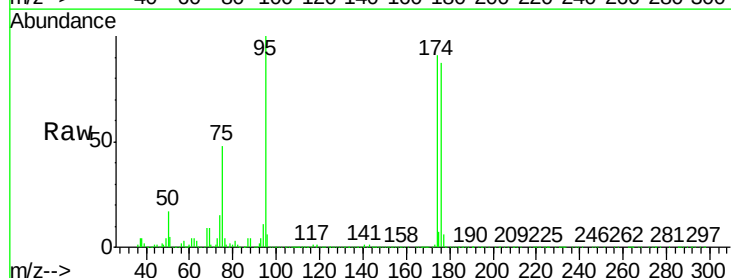
Acq: 30 Dec 2019 19:40

Tgt Ion: 75 Resp: 150346

Ion Ratio Lower Upper

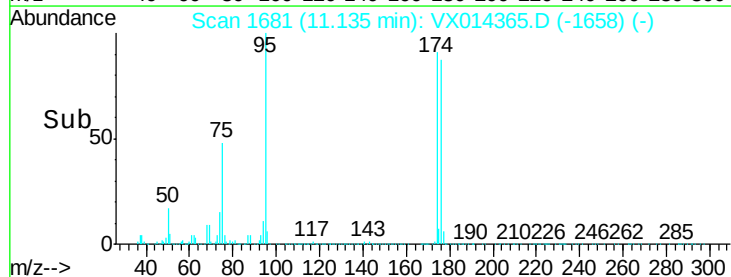
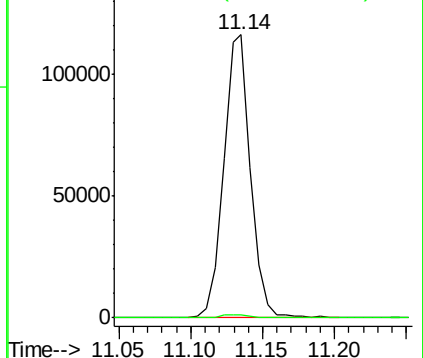
75 100

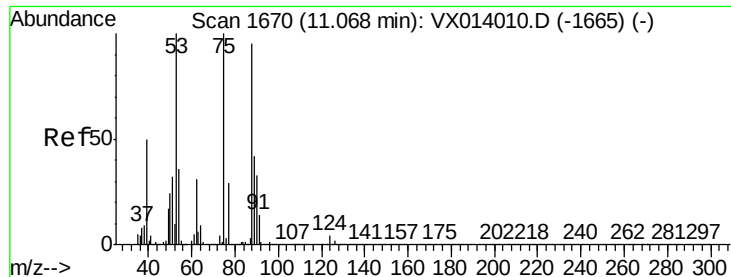
77 1.3 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

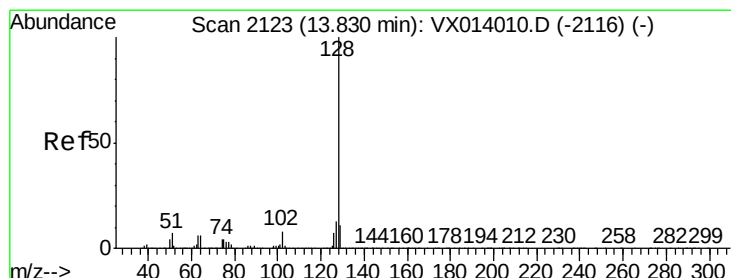
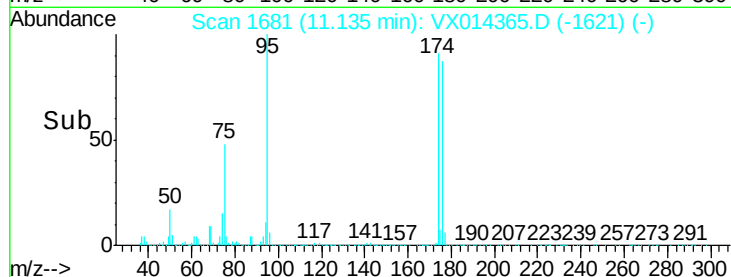
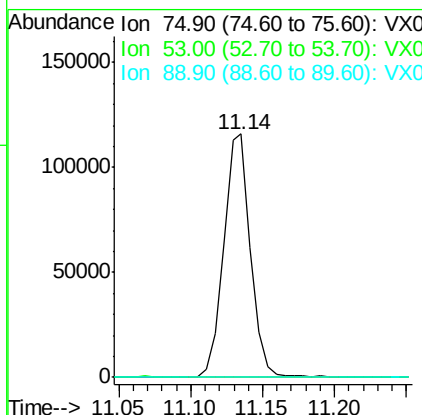
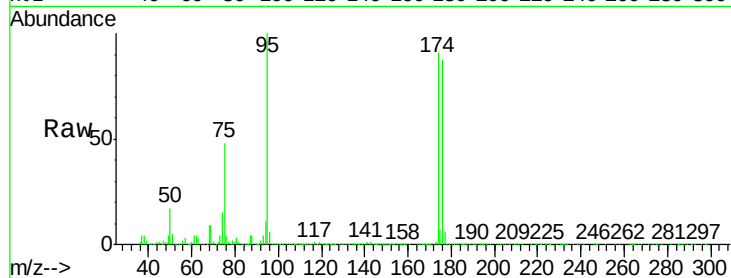




#81
trans-1,4-Dichloro-2-butene
Concen: 64.190 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.07 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

Instrument :
MSVOA_X
ClientSampleId :
EO-O1-122719

Tot Ion: 75 Resp: 150346
Ion Ratio Lower Upper
75 100
53 0.1 76.7 115.1#
89 0.0 34.6 51.8#



#95
Naphthalene
Concen: 2.534 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014365.D
Acq: 30 Dec 2019 19:40

Tgt Ion: 128 Resp: 50369
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.4
129 12.8 8.7 13.1

