

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019313.D
 Acq On : 05 Nov 2020 14:55
 Operator : JC/MD
 Sample : PB132824ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132824ZHE#03

Quant Time: Nov 06 01:08:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	263424	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	473489	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	452304	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	221094	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	191738	56.44	ug/l	0.00
Spiked Amount			Recovery	=	112.88%	
35) Dibromofluoromethane	5.46	113	151707	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
50) Toluene-d8	8.70	98	586481	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	
62) 4-Bromofluorobenzene	11.12	95	224134	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	

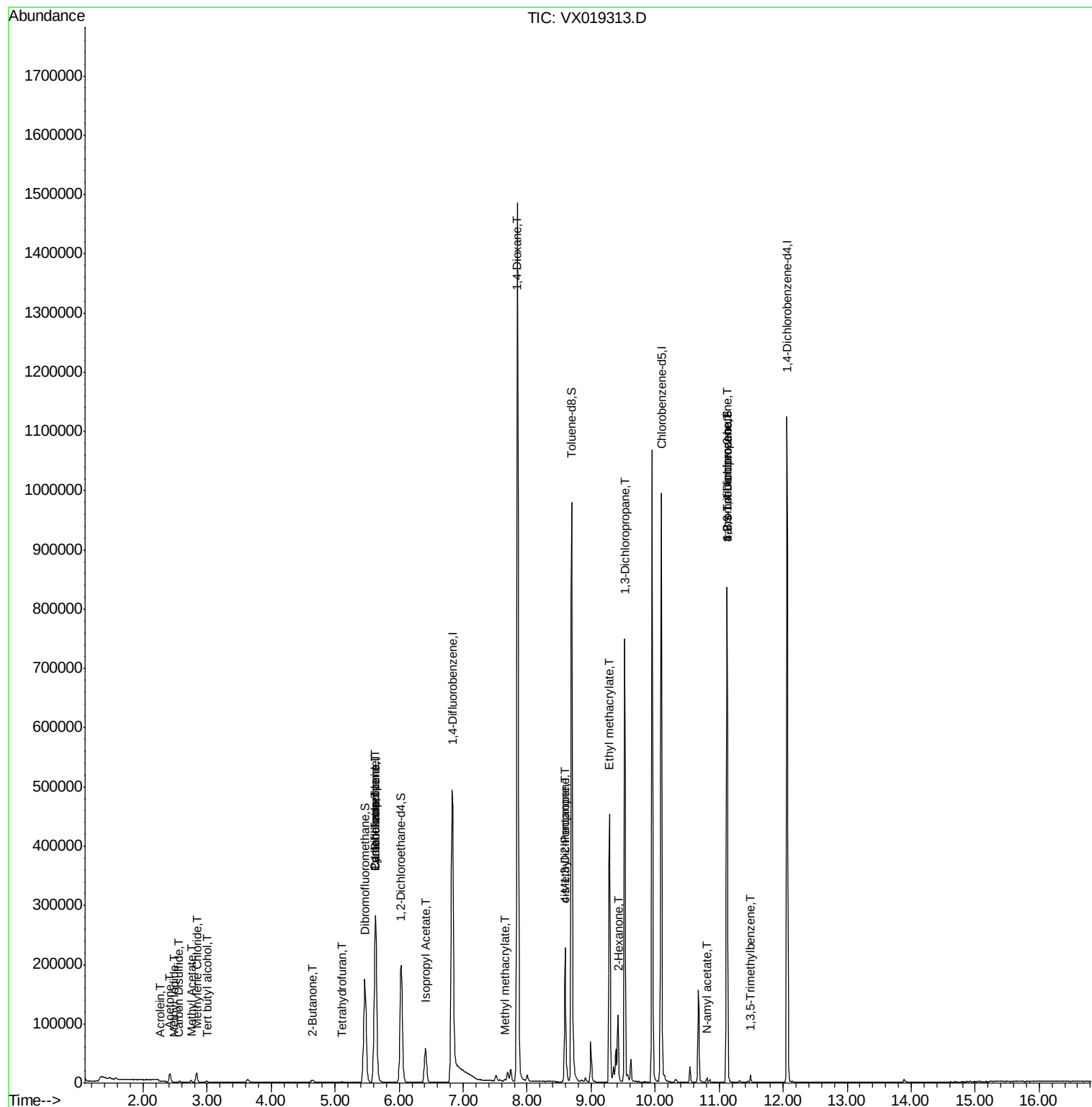
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.49	142	20	6.384	ug/l #	39
11) Tert butyl alcohol	3.00	59	1531	2.282	ug/l #	72
13) Acrolein	2.28	56	69	5.873	ug/l #	2
16) Acetone	2.42	43	15632	13.338	ug/l	90
17) Carbon Disulfide	2.55	76	394	0.813	ug/l #	75
18) Methyl Acetate	2.75	43	3014	1.058	ug/l	97
20) Methylene Chloride	2.84	84	7599	2.583	ug/l	95
25) 2-Butanone	4.65	43	3038	1.645	ug/l	99
29) Tetrahydrofuran	5.11	42	1826	1.569	ug/l #	88
31) Cyclohexane	5.62	56	6042	1.407	ug/l #	24
36) 1,1-Dichloropropene	5.63	75	21678	4.958	ug/l #	49
38) Carbon Tetrachloride	5.63	117	28135	6.313	ug/l #	17
43) Isopropyl Acetate	6.41	43	77477	11.398	ug/l	99
48) Methyl methacrylate	7.65	41	4125	1.261	ug/l #	9
49) 1,4-Dioxane	7.85	88	259	3.560	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	77692	19.886	ug/l #	43
54) cis-1,3-Dichloropropene	8.59	75	37120	6.983	ug/l #	63
56) Ethyl methacrylate	9.29	69	1146	0.240	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6503	1.223	ug/l #	42
59) 2-Hexanone	9.42	43	72970	24.537	ug/l #	20
74) N-amyl acetate	10.80	43	3597	0.629	ug/l #	43
76) 1,2,3-Trichloropropane	11.12	75	115936	25.396	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	5148	0.389	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	115936	66.868	ug/l #	12

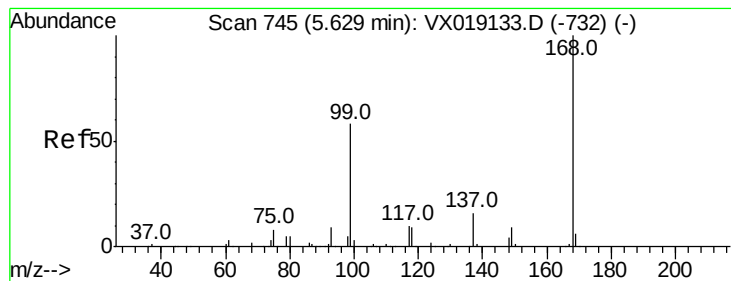
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX110620\
Data File : VX019313.D
Acq On : 05 Nov 2020 14:55
Operator : JC/MD
Sample : PB132824ZHE#03
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PB132824ZHE#03

Quant Time: Nov 06 01:08:25 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 27 13:55:07 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

Instrument :

MSVOA_X

ClientSampleId :

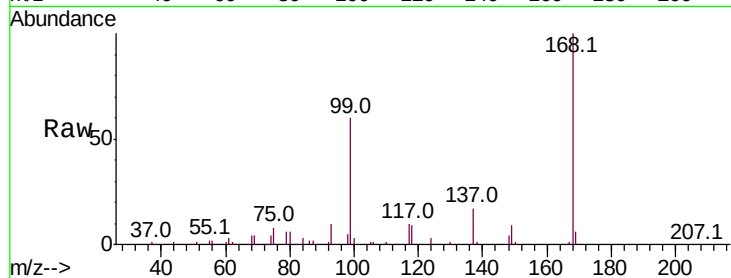
PB132824ZHE#03

Tot Ion:168 Resp: 263424

Ion Ratio Lower Upper

168 100

99 59.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

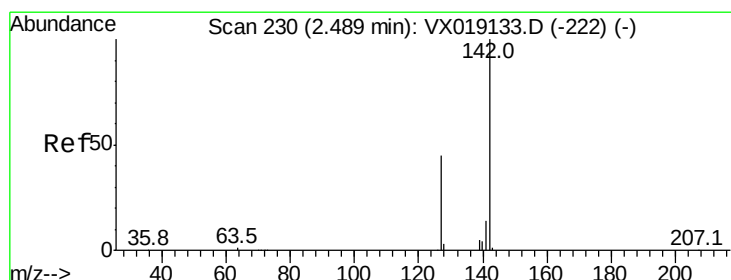
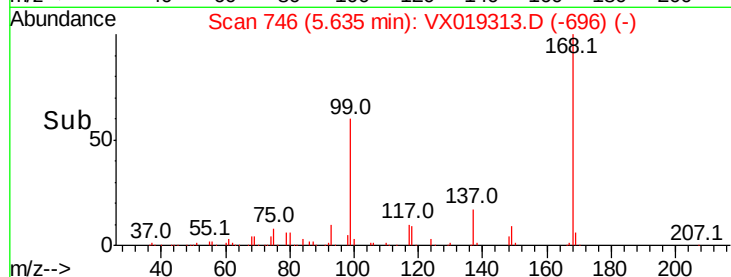
60000

40000

20000

0

Time-->



#10

Methyl Iodide

Concen: 6.384 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

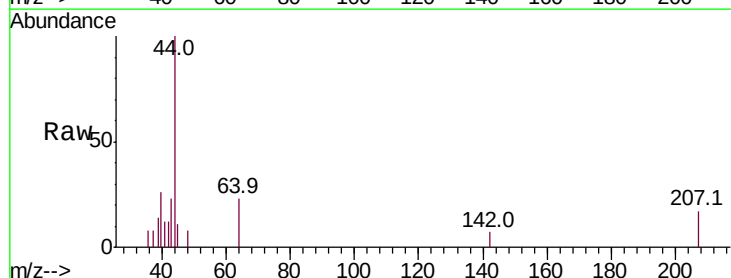
Tgt Ion:142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 36.1 54.1#

141 0.0 11.3 16.9#



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

2.49

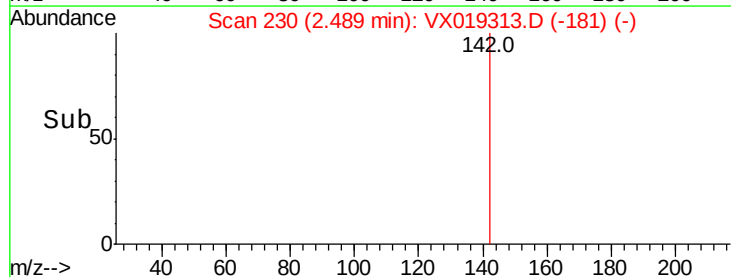
60

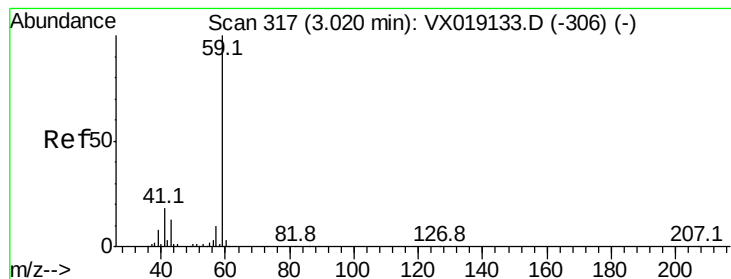
40

20

0

Time-->



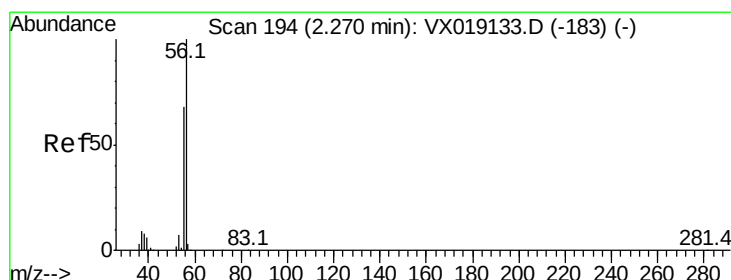
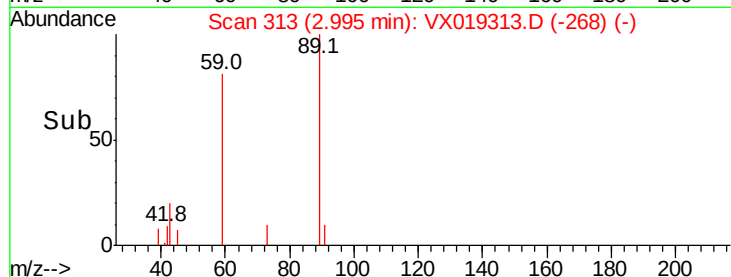
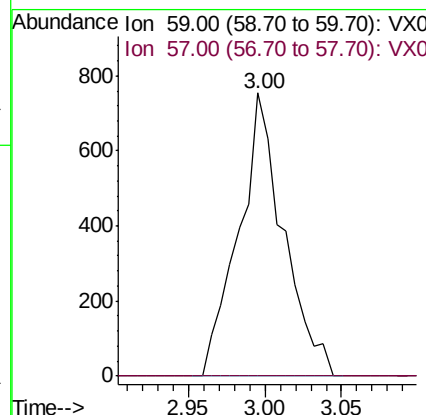
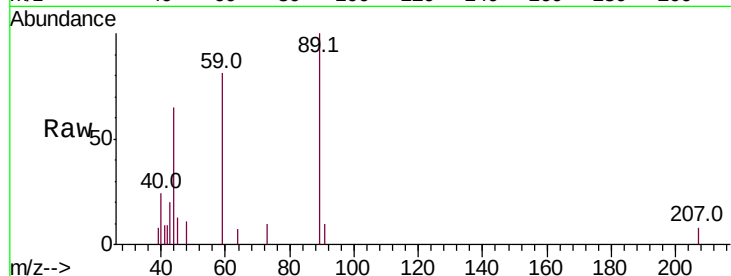


#11

Tert butyl alcohol
 Concen: 2.282 ug/l
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX019133.D
 Acq: 05 Nov 2020 14:55

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132824ZHE#03

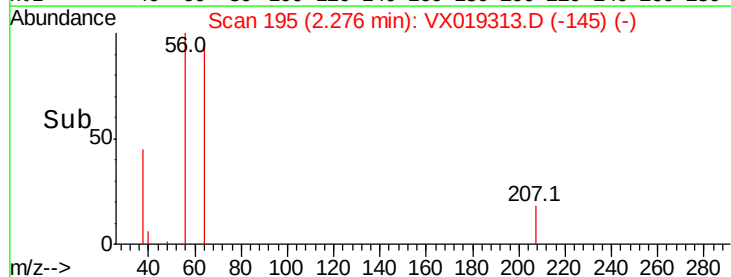
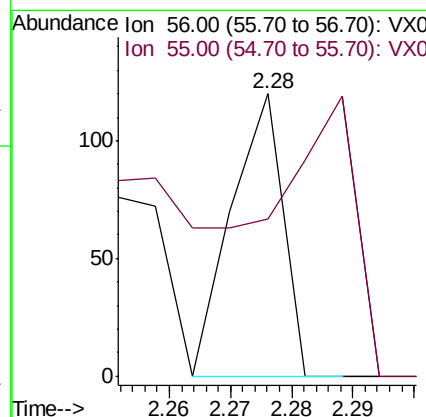
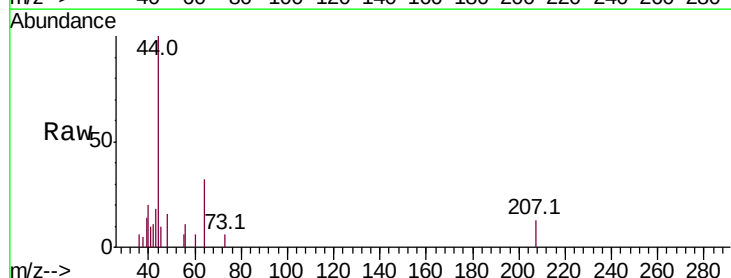
Tot Ion: 59 Resp: 1531
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

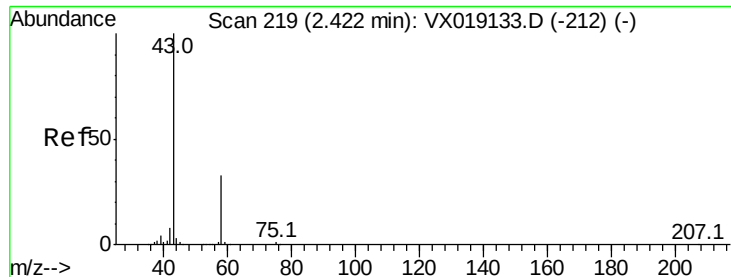


#13

Acrolein
 Concen: 5.873 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX019133.D
 Acq: 05 Nov 2020 14:55

Tgt Ion: 56 Resp: 69
 Ion Ratio Lower Upper
 56 100
 55 147.8 54.7 82.1#





#16

Acetone

Concen: 13.338 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

Instrument :

MSVOA_X

ClientSampleId :

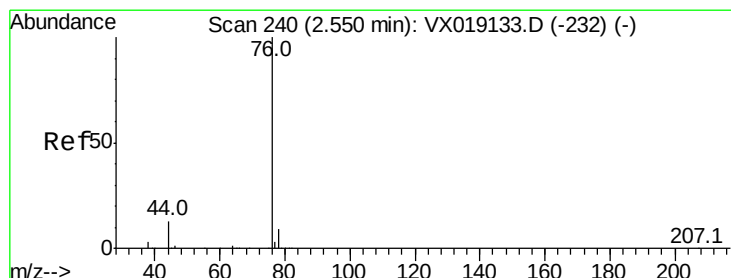
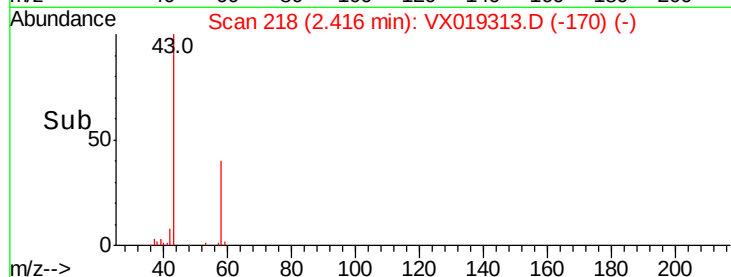
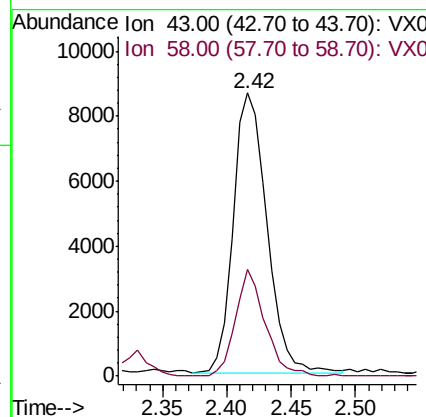
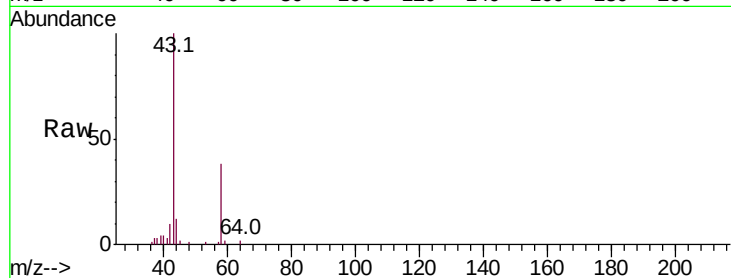
PB132824ZHE#03

Tot Ion: 43 Resp: 15632

Ion Ratio Lower Upper

43 100

58 38.3 26.3 39.5



#17

Carbon Disulfide

Concen: 0.813 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019133.D

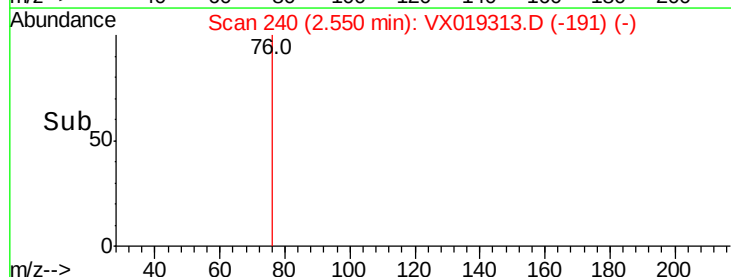
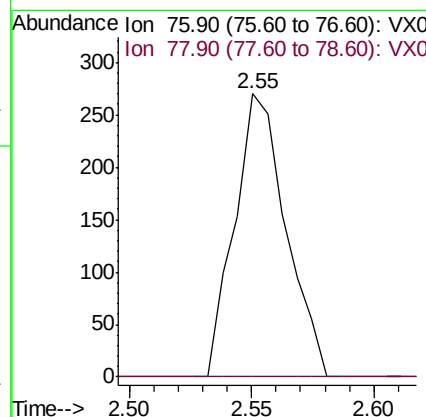
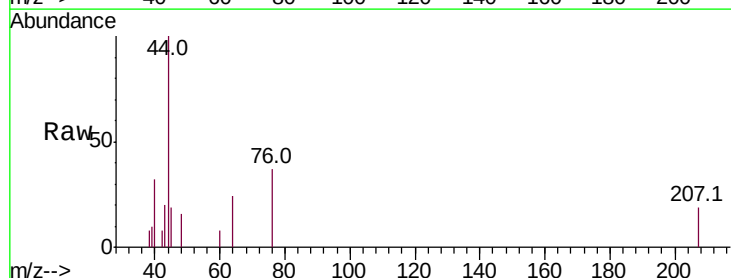
Acq: 05 Nov 2020 14:55

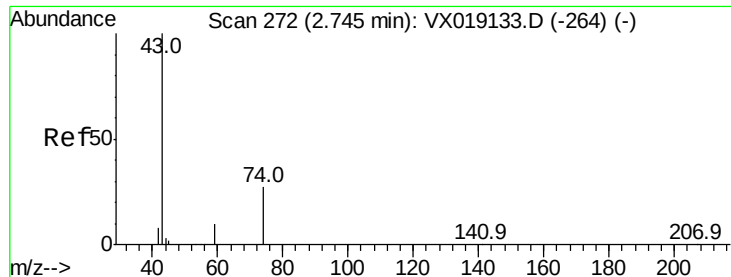
Tgt Ion: 76 Resp: 394

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

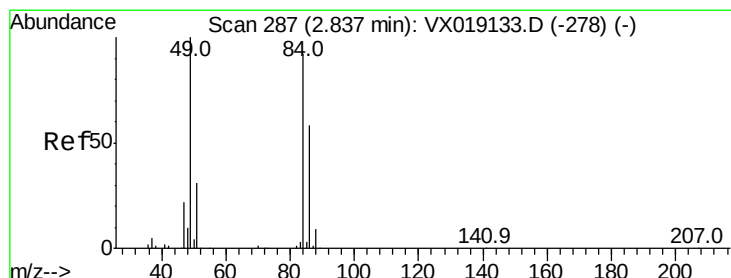
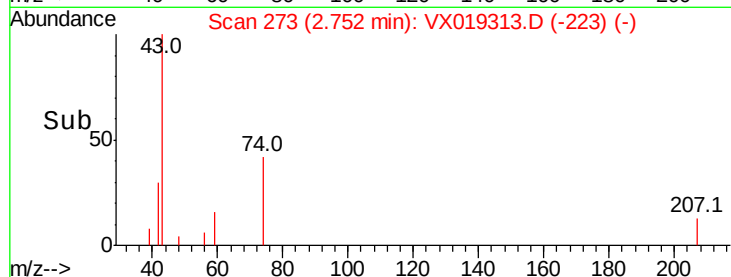
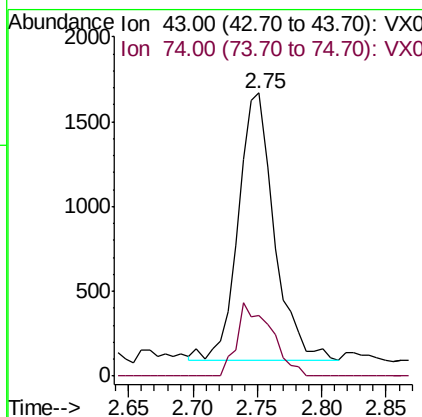
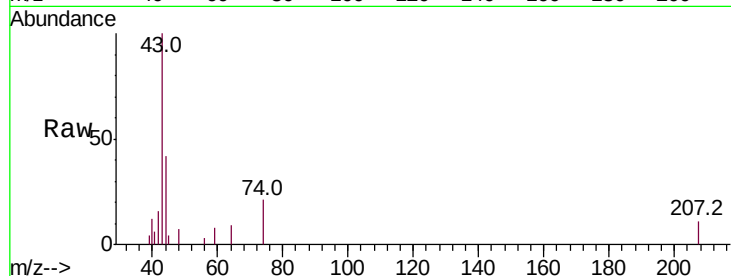




#18
Methyl Acetate
Concen: 1.058 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX019133.D
Acq: 05 Nov 2020 14:55

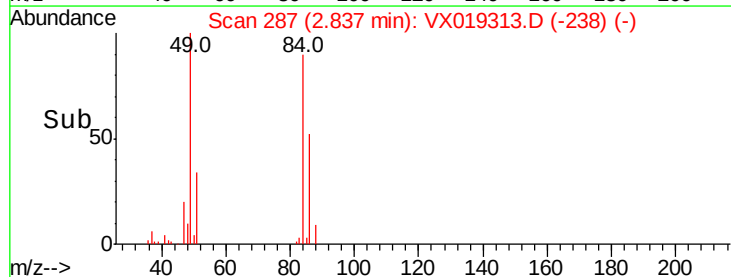
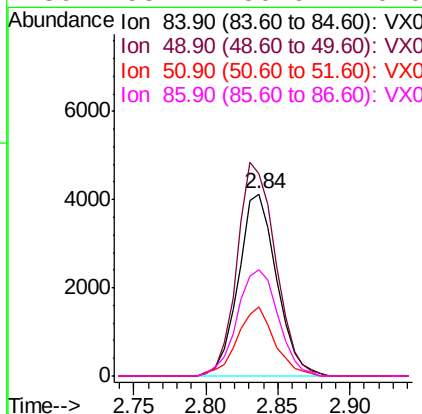
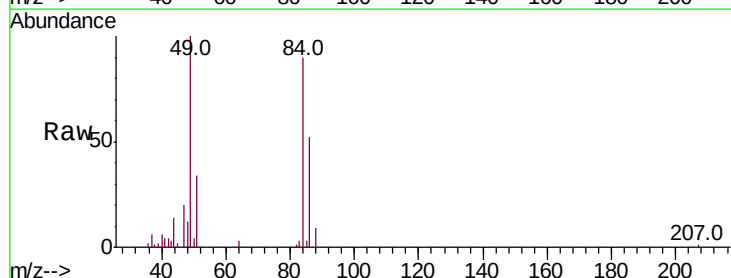
Instrument :
MSVOA_X
ClientSampleId :
PB132824ZHE#03

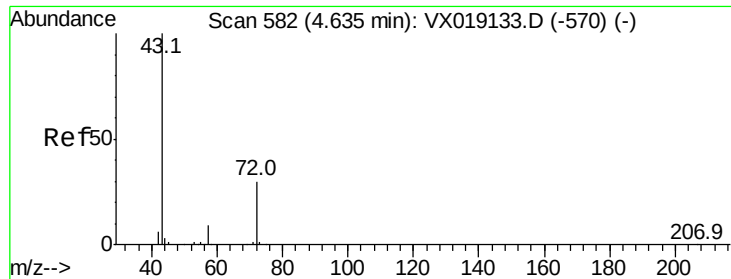
Tot Ion: 43 Resp: 3014
Ion Ratio Lower Upper
43 100
74 26.7 22.6 33.8



#20
Methylene Chloride
Concen: 2.583 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX019133.D
Acq: 05 Nov 2020 14:55

Tgt Ion: 84 Resp: 7599
Ion Ratio Lower Upper
84 100
49 111.5 86.8 130.2
51 38.0 27.3 40.9
86 58.2 50.6 76.0





#25

2-Butanone

Concen: 1.645 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

Instrument :

MSVOA_X

ClientSampleId :

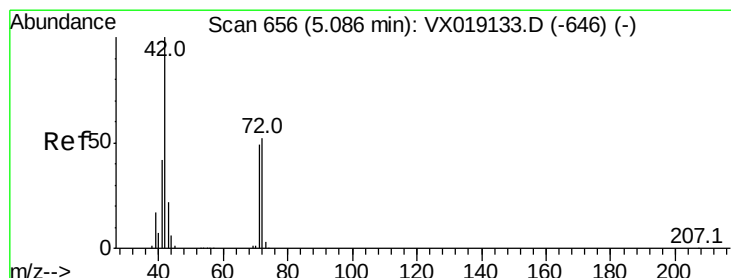
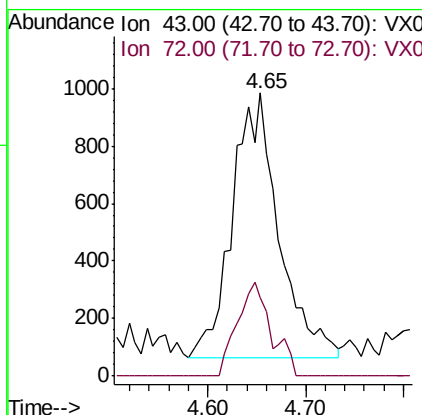
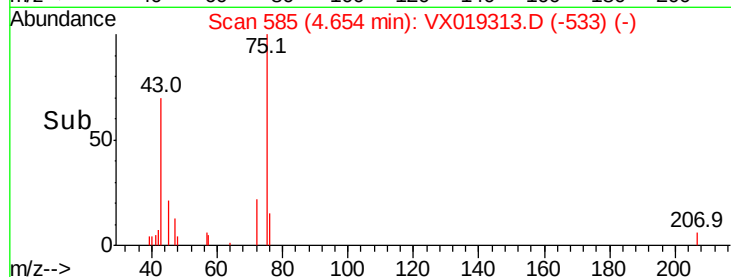
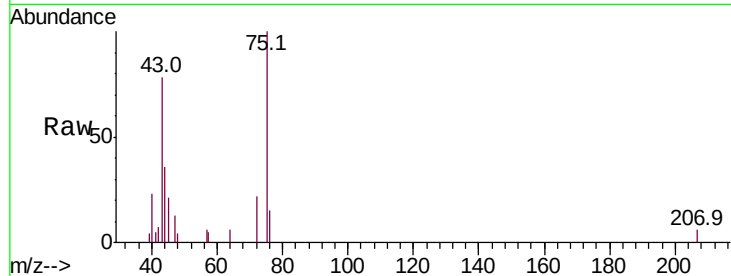
PB132824ZHE#03

Tot Ion: 43 Resp: 3038

Ion Ratio Lower Upper

43 100

72 29.9 24.6 36.8



#29

Tetrahydrofuran

Concen: 1.569 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

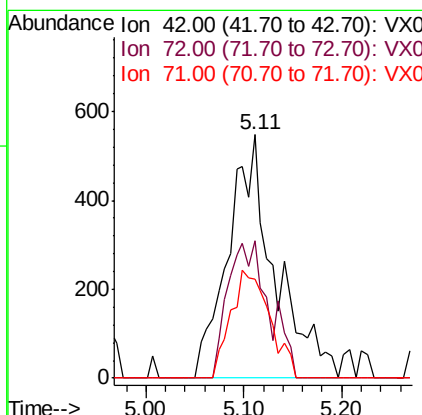
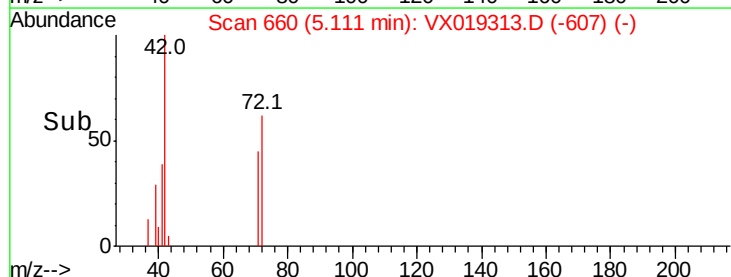
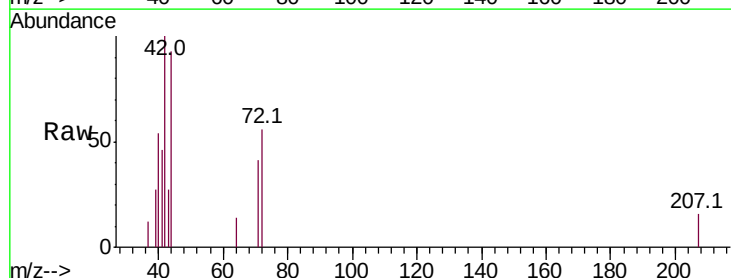
Tgt Ion: 42 Resp: 1826

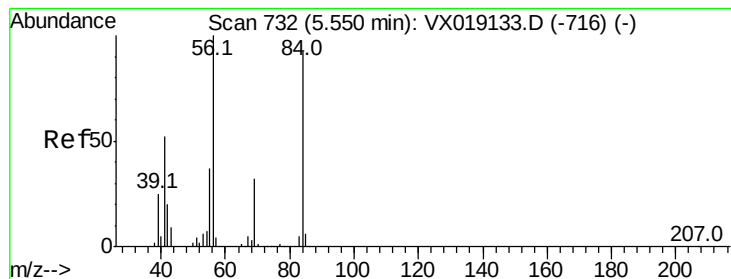
Ion Ratio Lower Upper

42 100

72 49.2 42.6 63.8

71 36.5 39.7 59.5#





#31

Cyclohexane

Concen: 1.407 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#03

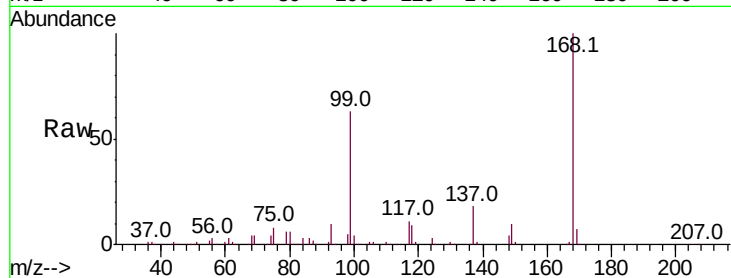
Tot Ion: 56 Resp: 6042

Ion Ratio Lower Upper

56 100

69 165.8 25.9 38.9#

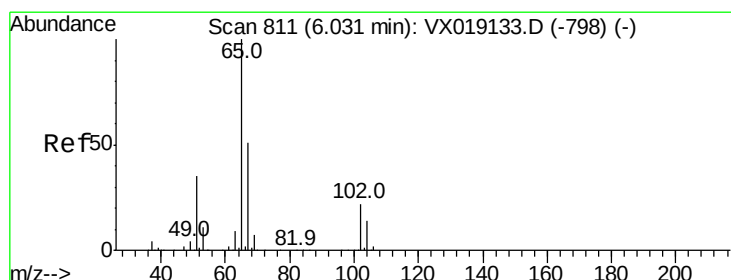
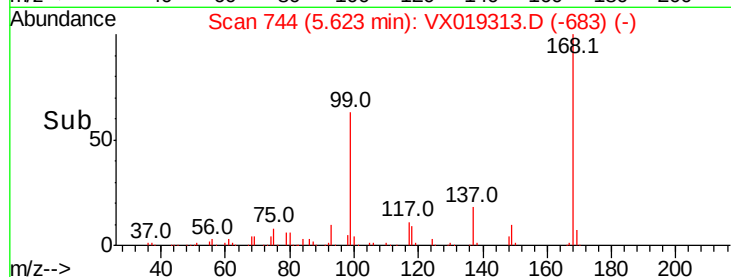
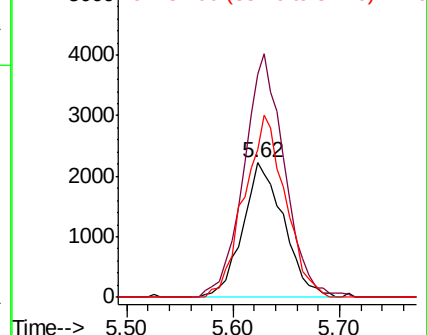
84 109.9 73.4 110.2



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



#33

1,2-Dichloroethane-d4

Concen: 56.440 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019133.D

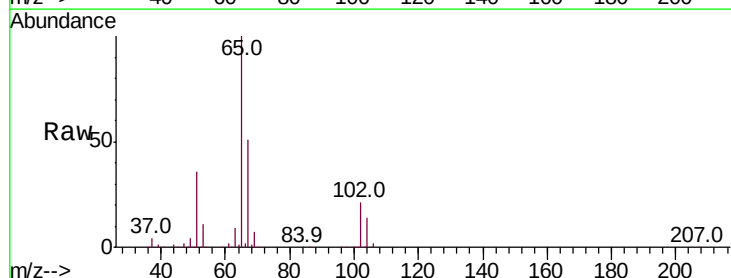
Acq: 05 Nov 2020 14:55

Tgt Ion: 65 Resp: 191738

Ion Ratio Lower Upper

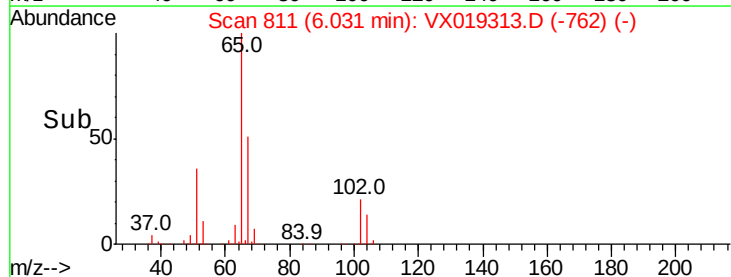
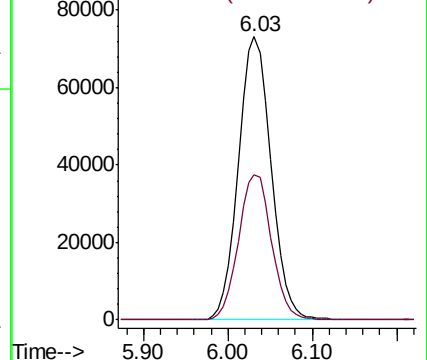
65 100

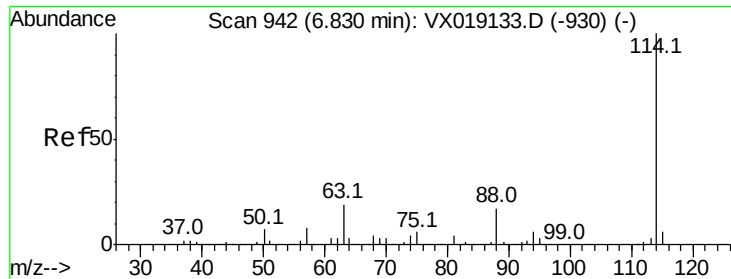
67 51.9 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

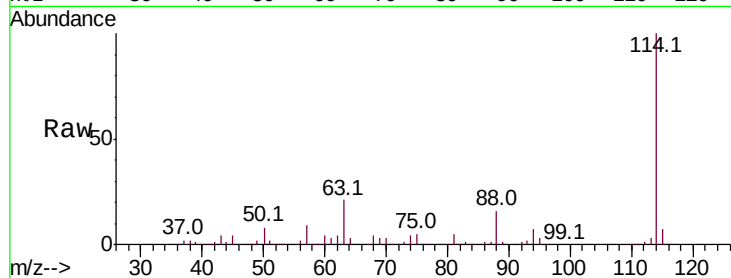




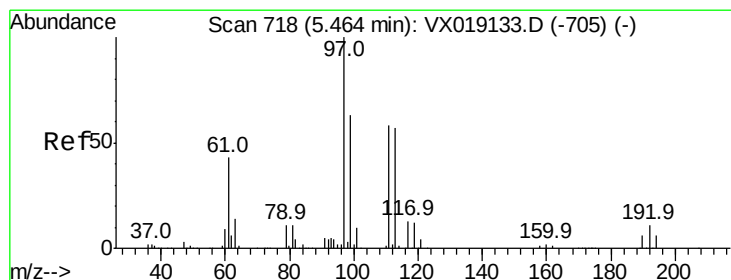
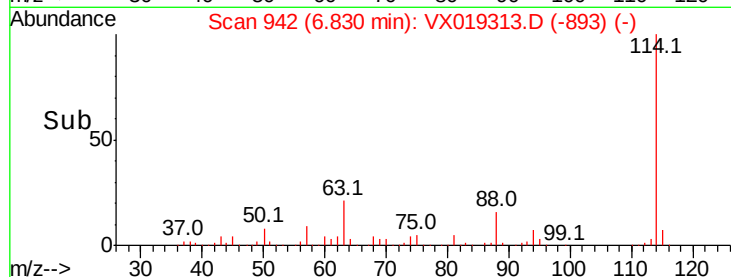
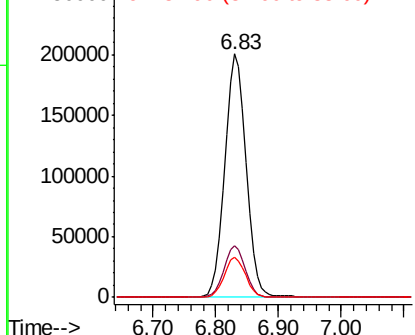
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX019133.D
 Acq: 05 Nov 2020 14:55

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132824ZHE#03

Tot Ion:114 Resp: 473489
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 38.8
 88 16.3 0.0 34.2

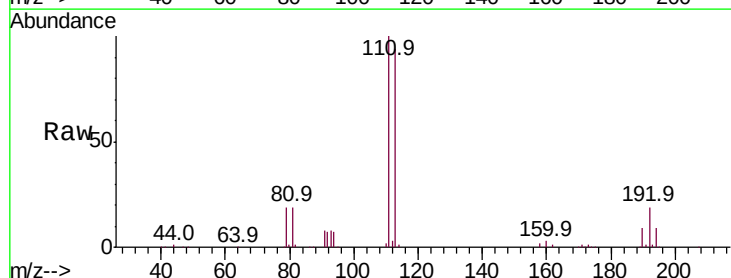


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

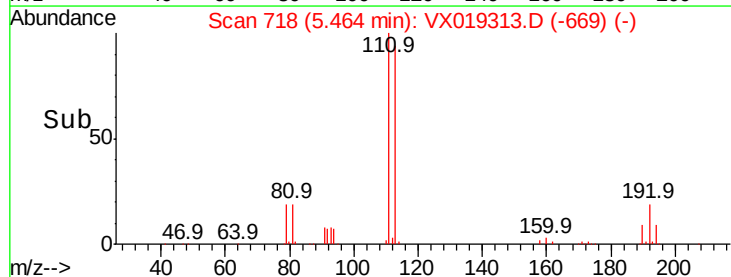
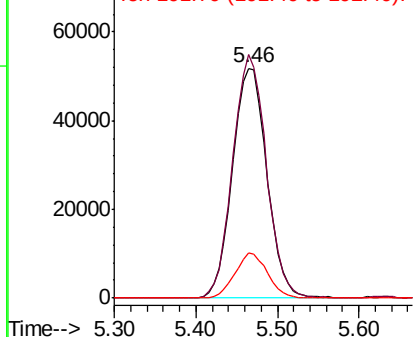


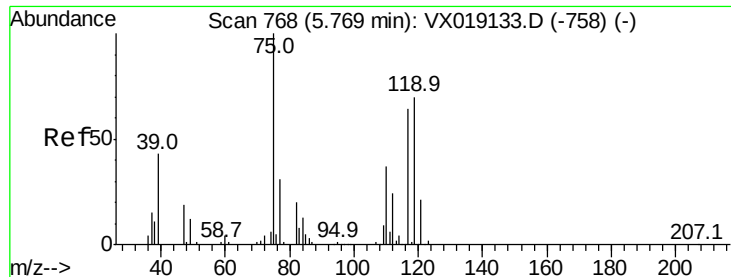
#35
 Dibromofluoromethane
 Concen: 51.008 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.00 min
 Lab File: VX019133.D
 Acq: 05 Nov 2020 14:55

Tgt Ion:113 Resp: 151707
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.3 123.5
 192 18.7 16.2 24.2



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: 4.958 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#03

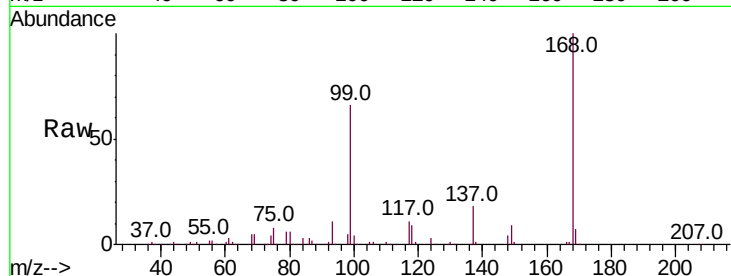
Tot Ion: 75 Resp: 21678

Ion Ratio Lower Upper

75 100

110 9.5 18.3 54.9#

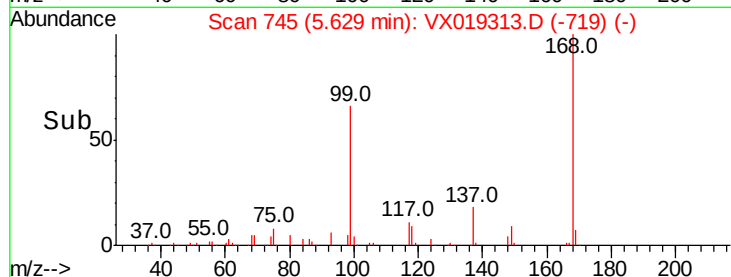
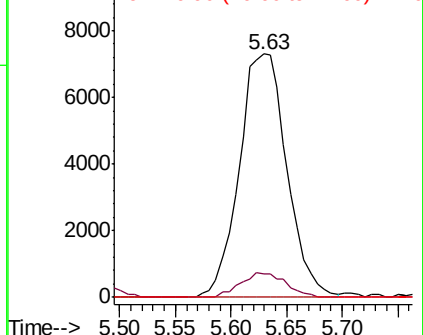
77 0.0 24.9 37.3#



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



#38

Carbon Tetrachloride

Concen: 6.313 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

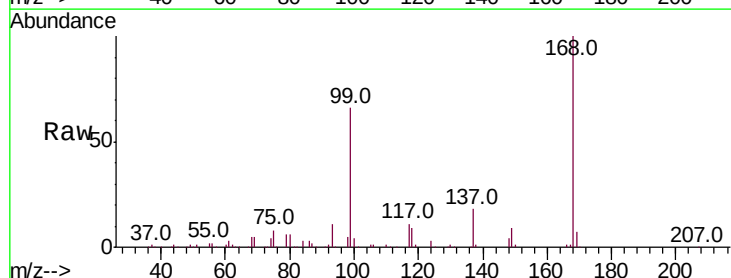
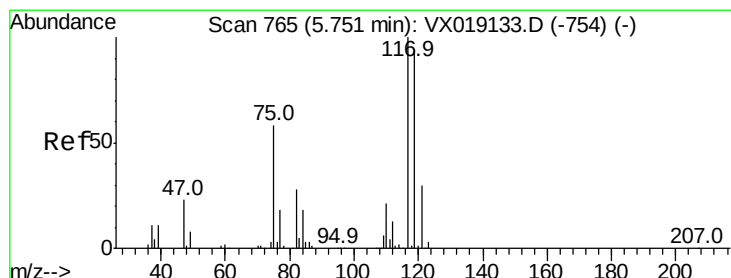
Tgt Ion: 117 Resp: 28135

Ion Ratio Lower Upper

117 100

119 4.9 75.0 112.6#

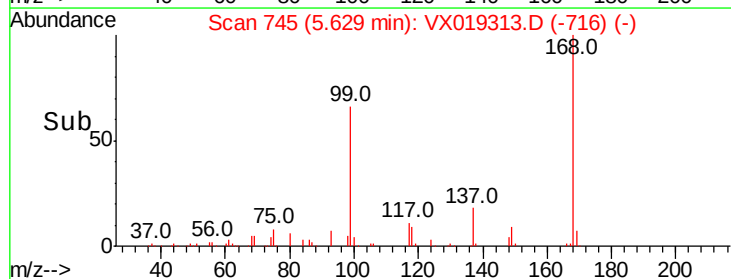
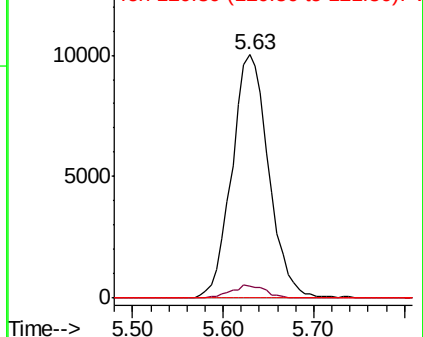
121 0.0 23.9 35.9#

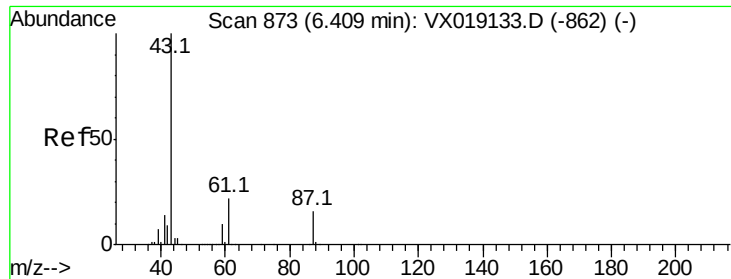


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 11.398 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.00 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#03

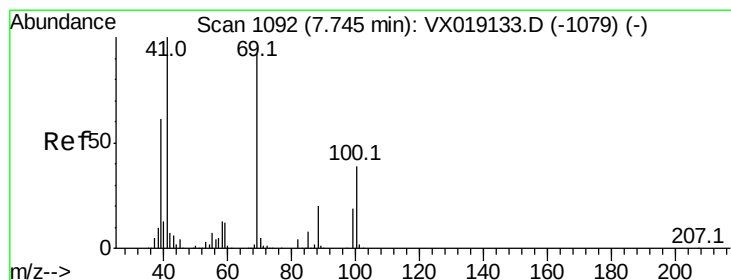
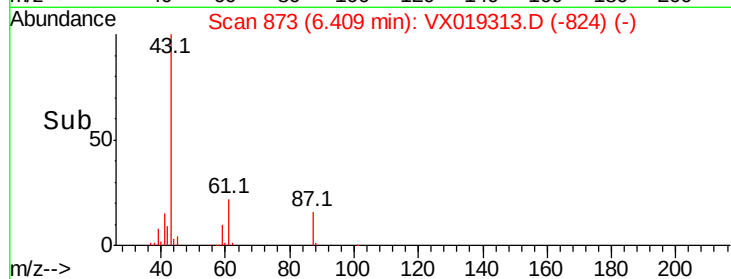
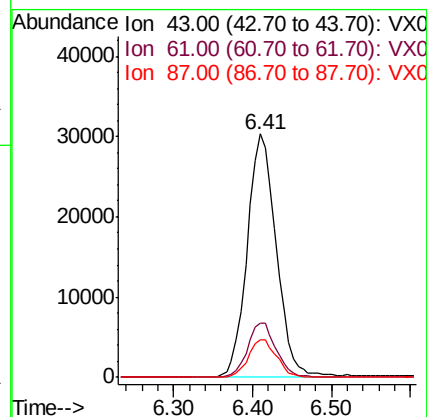
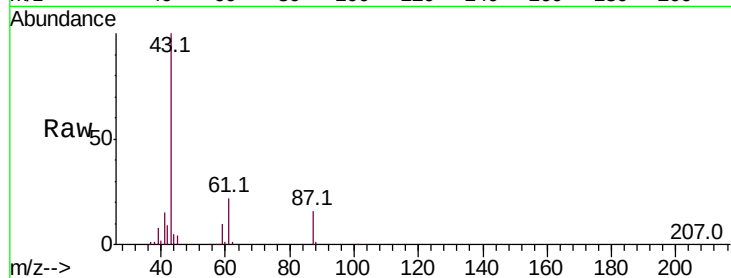
Tot Ion: 43 Resp: 77477

Ion Ratio Lower Upper

43 100

61 21.9 17.8 26.6

87 15.1 12.6 19.0



#48

Methyl methacrylate

Concen: 1.261 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

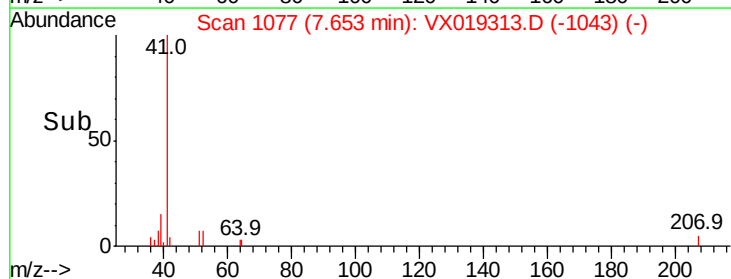
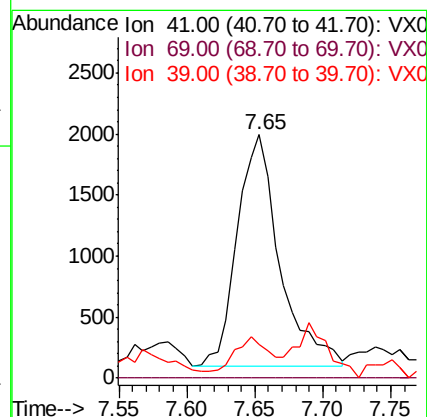
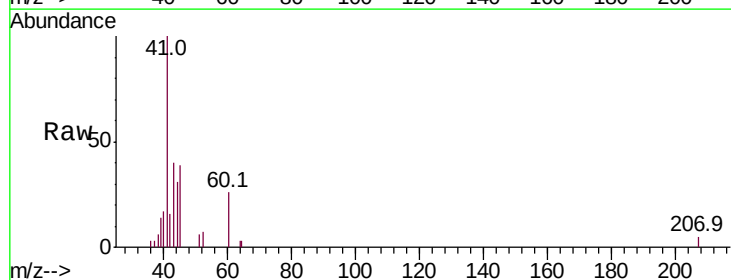
Tgt Ion: 41 Resp: 4125

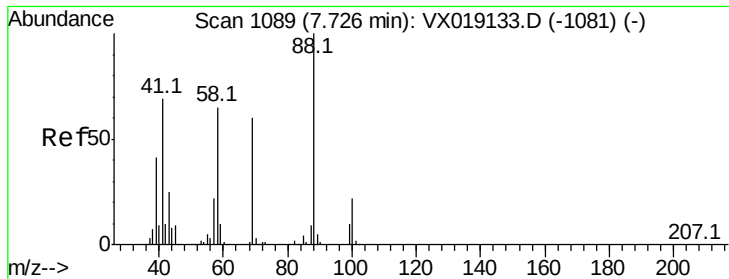
Ion Ratio Lower Upper

41 100

69 0.0 75.5 113.3#

39 0.0 48.9 73.3#





#49

1,4-Dioxane

Concen: 3.560 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.12 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#03

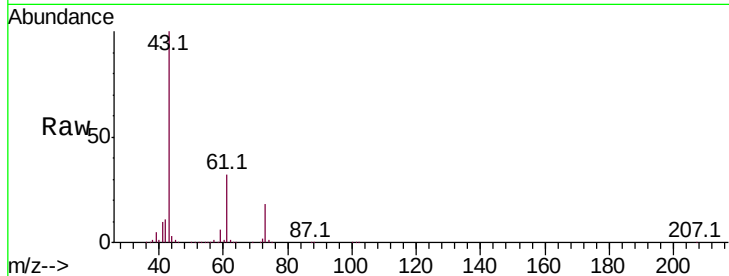
Tot Ion: 88 Resp: 259

Ion Ratio Lower Upper

88 100

43 502394.6 23.0 34.6#

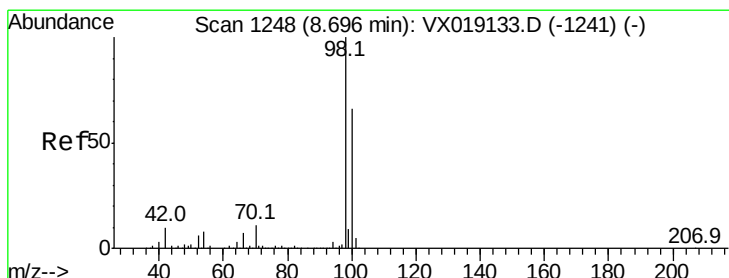
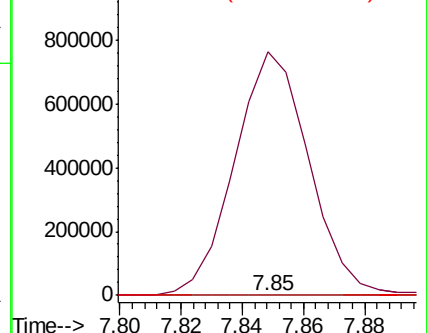
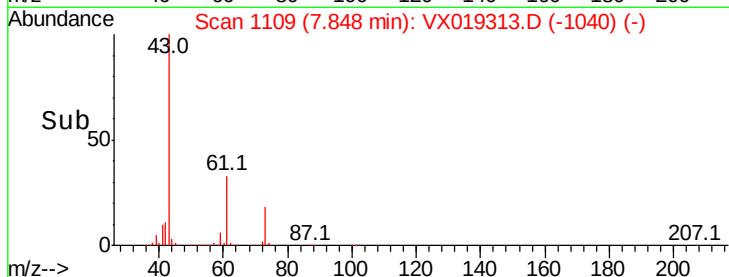
58 2349.8 52.2 78.2#



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: 52.310 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019133.D

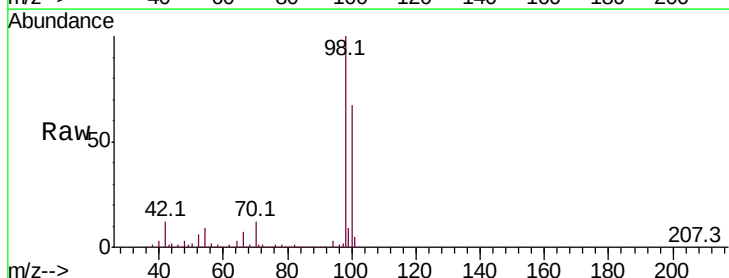
Acq: 05 Nov 2020 14:55

Tgt Ion: 98 Resp: 586481

Ion Ratio Lower Upper

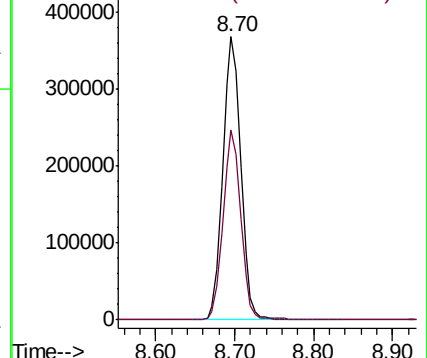
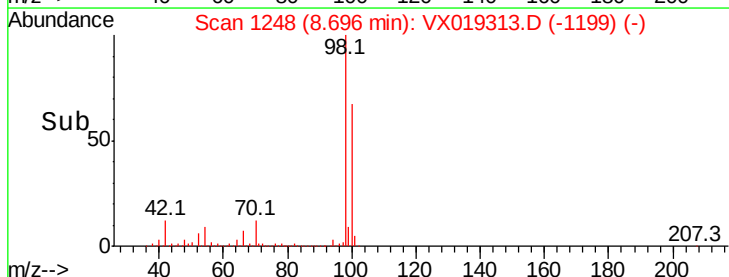
98 100

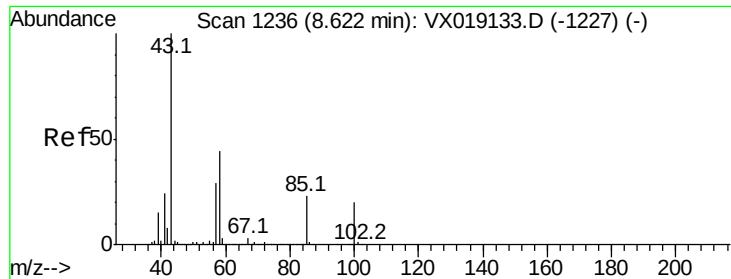
100 66.0 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

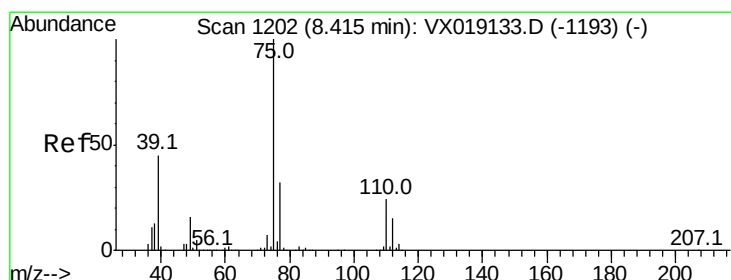
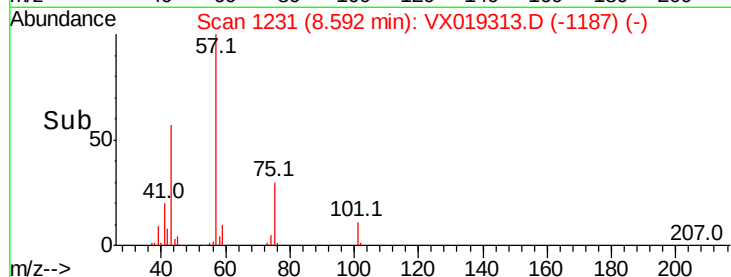
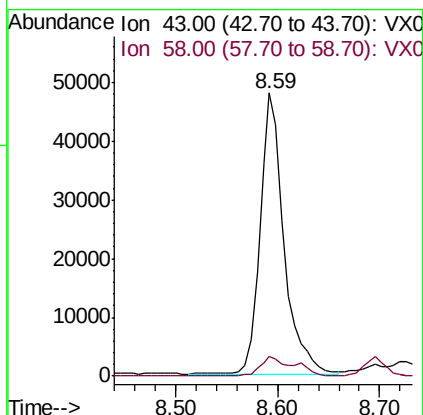
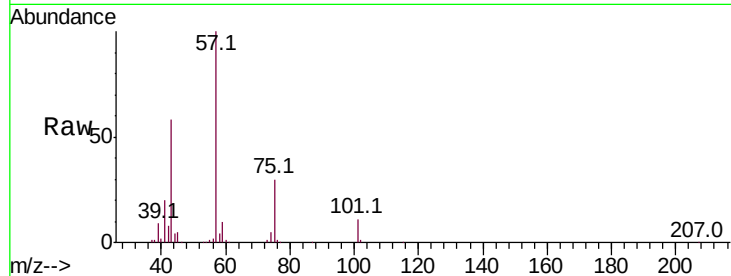




#51
4-Methyl-2-Pentanone
Concen: 19.886 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX019133.D
Acq: 05 Nov 2020 14:55

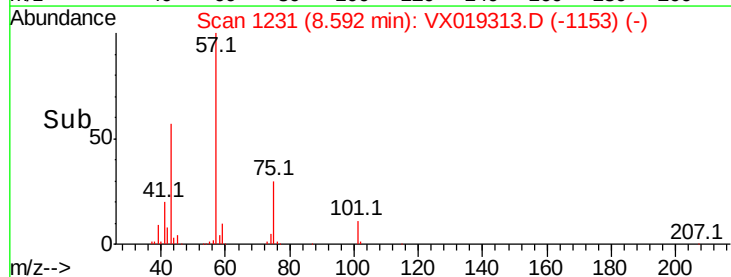
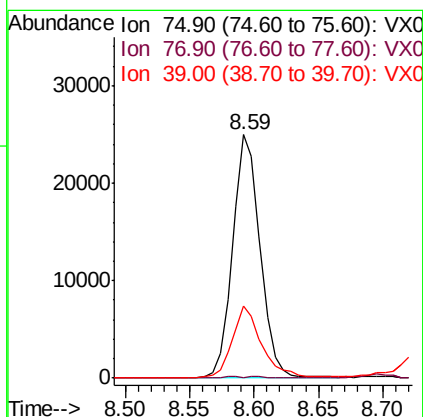
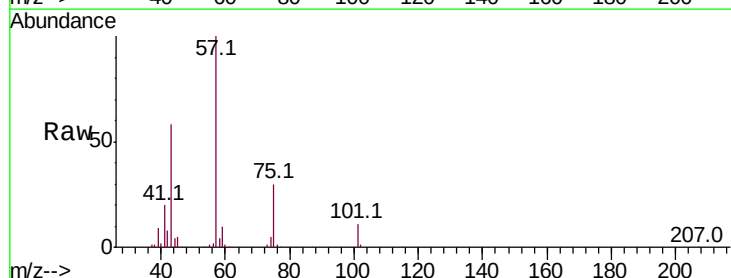
Instrument :
MSVOA_X
ClientSampleId :
PB132824ZHE#03

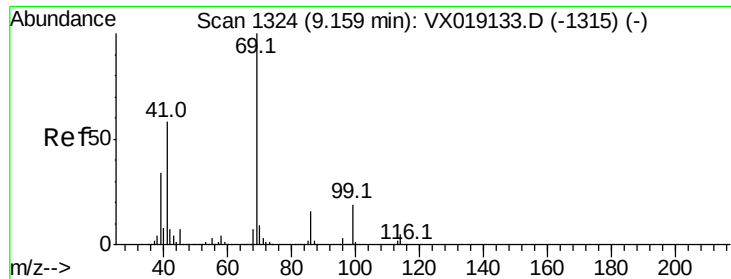
Tot Ion: 43 Resp: 77692
Ion Ratio Lower Upper
43 100
58 6.7 35.0 52.4#



#54
cis-1,3-Dichloropropene
Concen: 6.983 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. 0.18 min
Lab File: VX019133.D
Acq: 05 Nov 2020 14:55

Tgt Ion: 75 Resp: 37120
Ion Ratio Lower Upper
75 100
77 0.4 25.5 38.3#
39 29.5 36.2 54.2#





#56

Ethyl methacrylate

Concen: 0.240 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#03

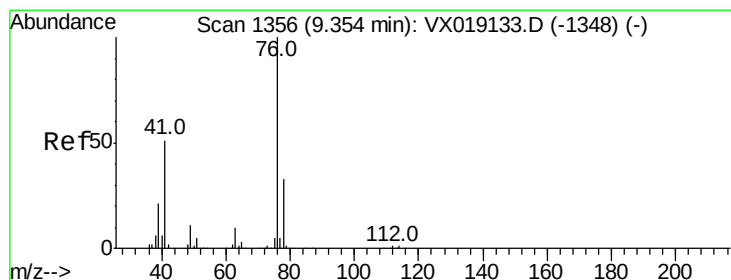
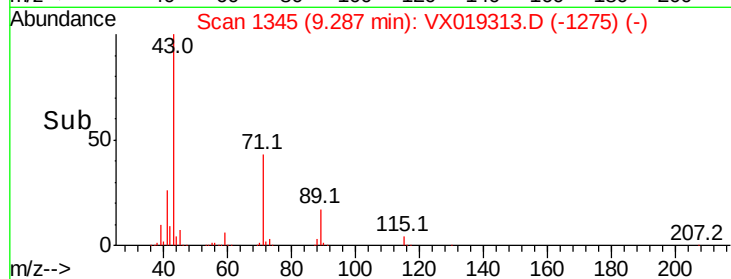
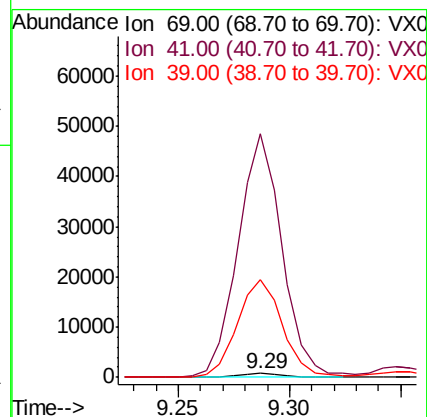
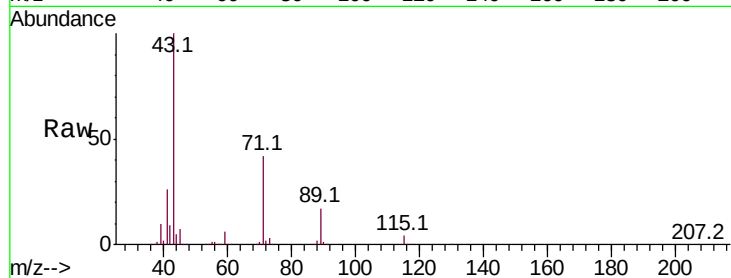
Tot Ion: 69 Resp: 1146

Ion Ratio Lower Upper

69 100

41 5846.8 46.5 69.7#

39 2421.4 27.6 41.4#



#57

1,3-Dichloropropane

Concen: 1.223 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019133.D

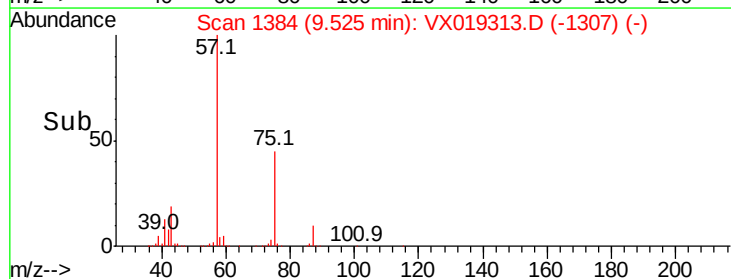
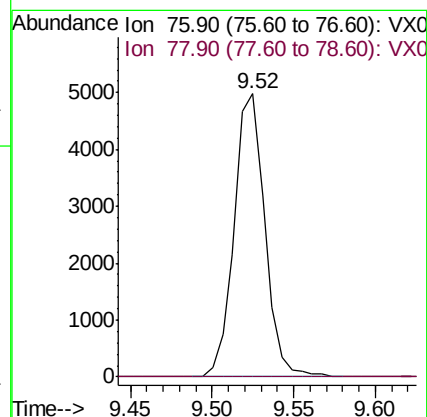
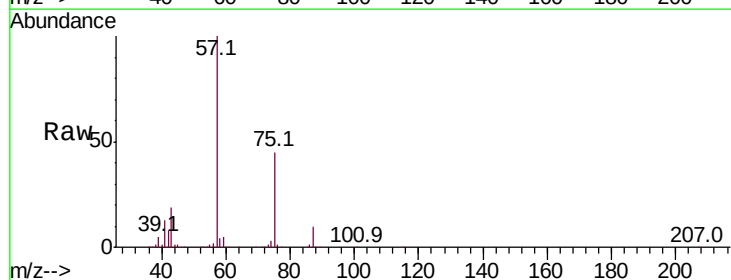
Acq: 05 Nov 2020 14:55

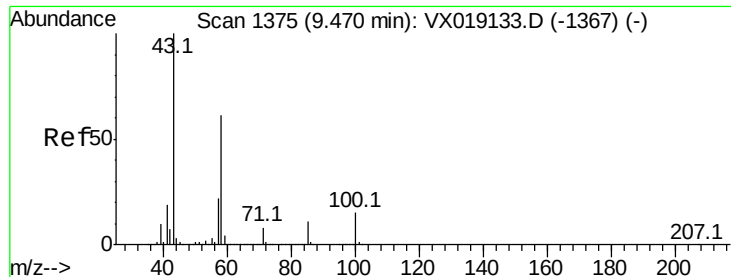
Tgt Ion: 76 Resp: 6503

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#

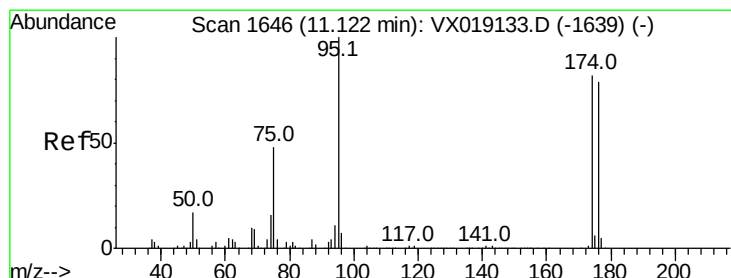
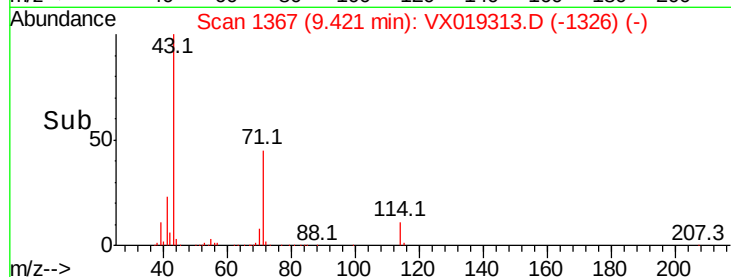
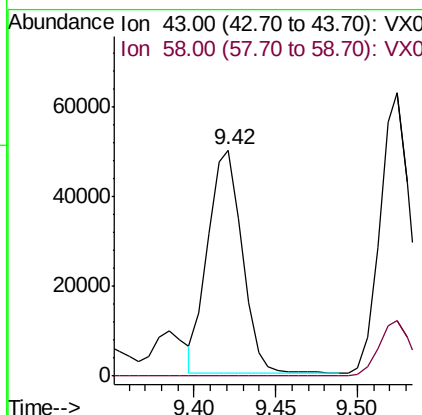
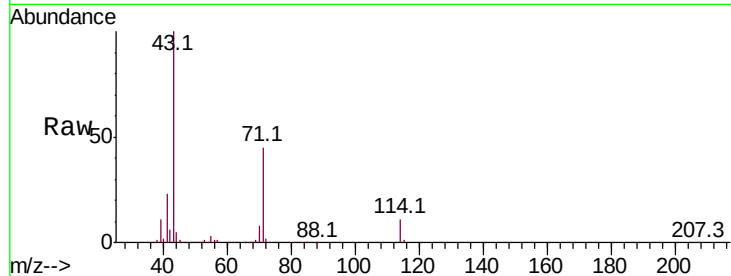




#59
2-Hexanone
Concen: 24.537 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX019133.D
Acq: 05 Nov 2020 14:55

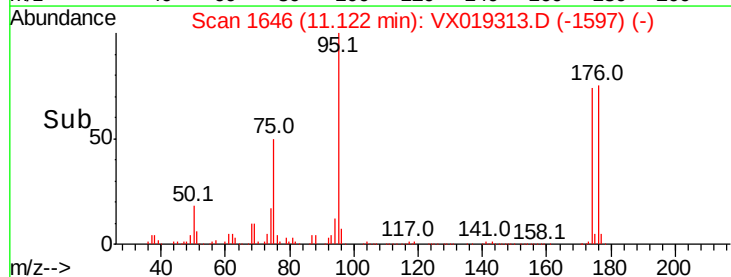
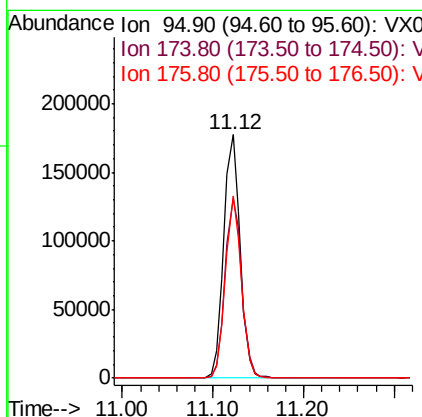
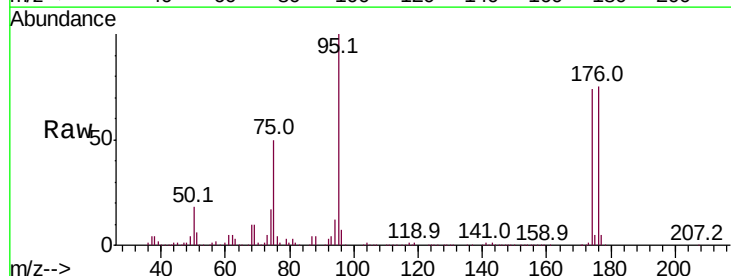
Instrument :
MSVOA_X
ClientSampleId :
PB132824ZHE#03

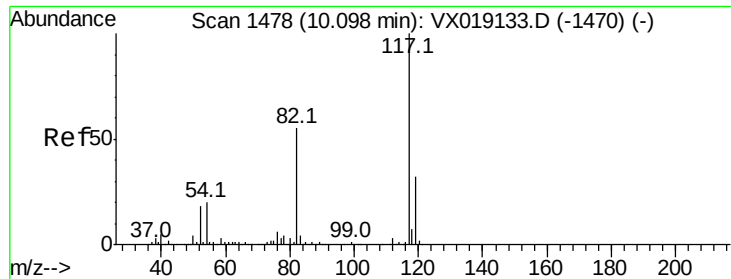
Tot Ion: 43 Resp: 72970
Ion Ratio Lower Upper
43 100
58 0.0 30.5 91.5#



#62
4-Bromofluorobenzene
Concen: 52.789 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019133.D
Acq: 05 Nov 2020 14:55

Tgt Ion: 95 Resp: 224134
Ion Ratio Lower Upper
95 100
174 74.9 0.0 156.0
176 72.7 0.0 149.8

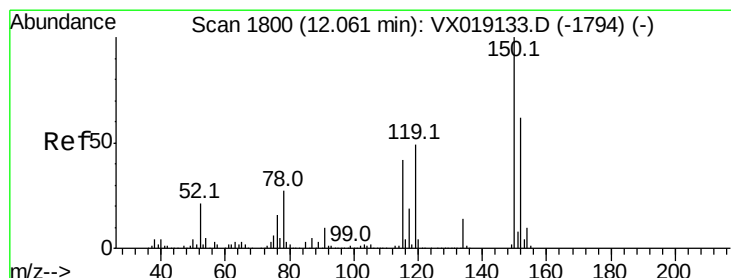
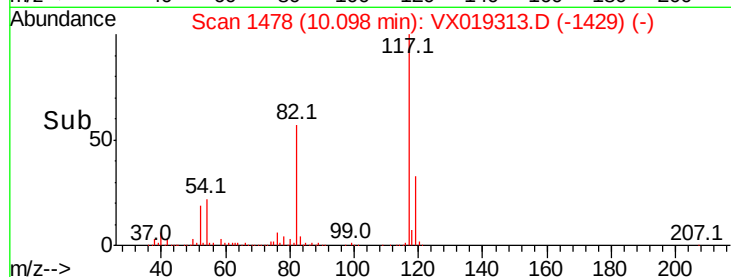
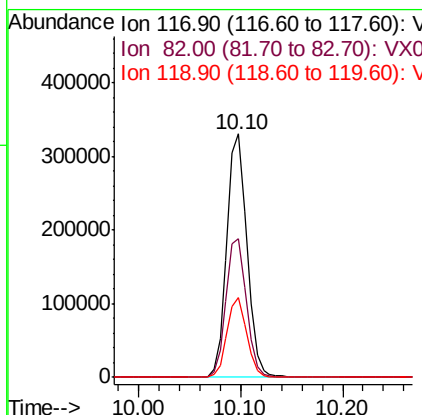
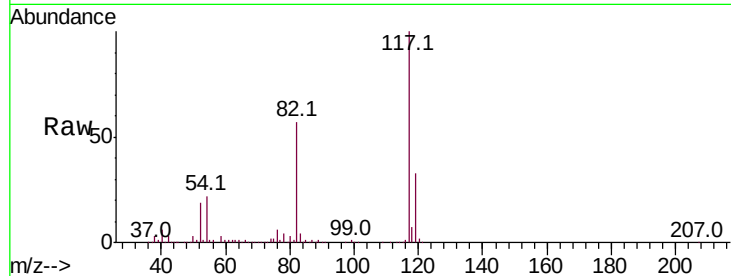




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX019133.D
Acq: 05 Nov 2020 14:55

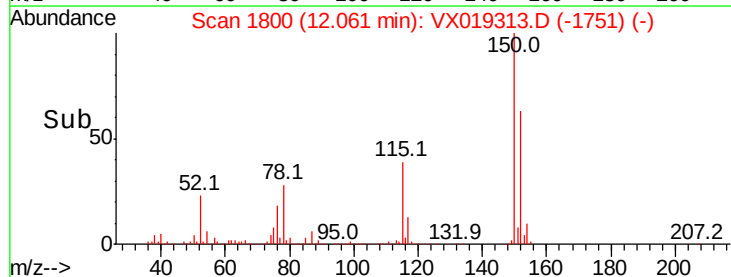
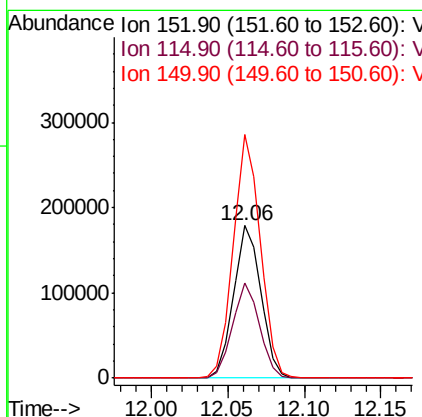
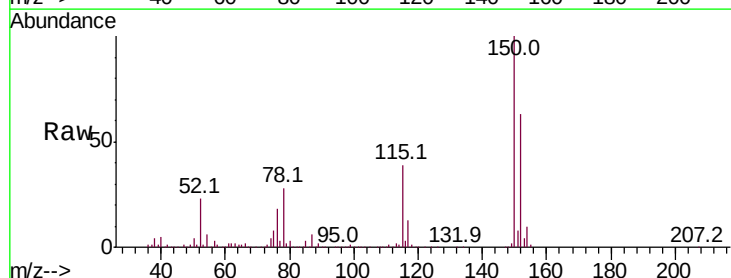
Instrument :
MSVOA_X
ClientSampleId :
PB132824ZHE#03

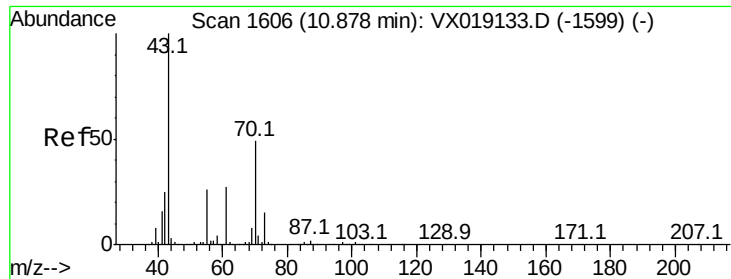
Tot Ion:117 Resp: 452304
Ion Ratio Lower Upper
117 100
82 56.9 43.6 65.4
119 32.7 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX019133.D
Acq: 05 Nov 2020 14:55

Tgt Ion:152 Resp: 221094
Ion Ratio Lower Upper
152 100
115 61.3 41.9 125.7
150 158.2 0.0 347.8





#74

N-amvl acetate

Concen: 0.629 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#03

Tot Ion: 43 Resp: 3597

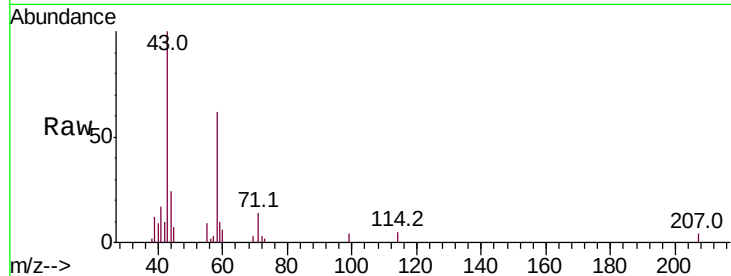
Ion Ratio Lower Upper

43 100

70 0.0 39.6 59.4#

55 9.5 20.7 31.1#

61 0.0 21.9 32.9#

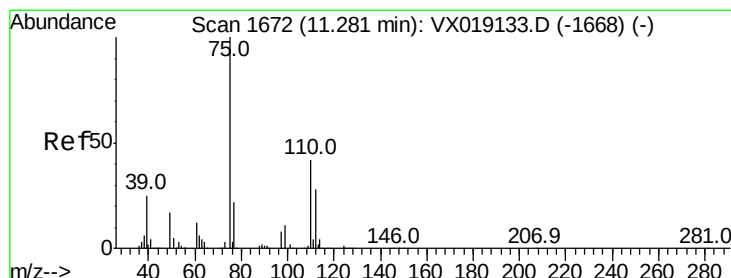
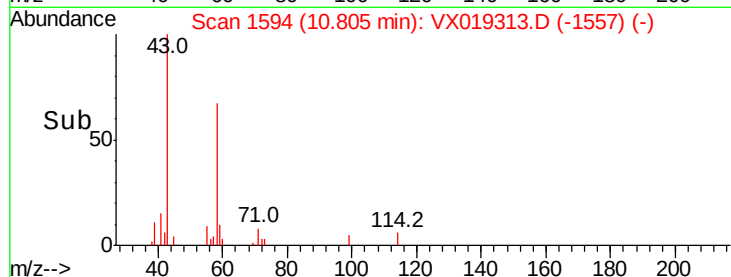
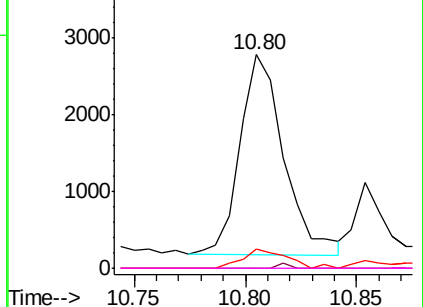


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 25.396 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019133.D

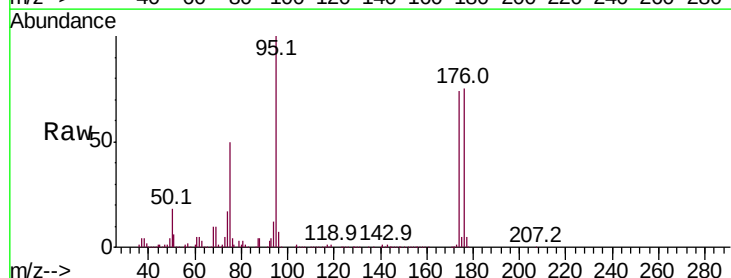
Acq: 05 Nov 2020 14:55

Tgt Ion: 75 Resp: 115936

Ion Ratio Lower Upper

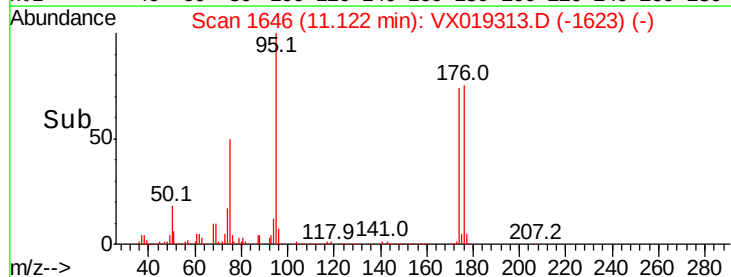
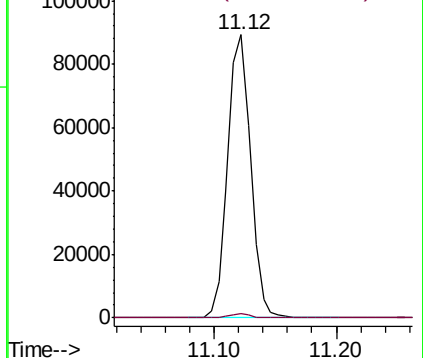
75 100

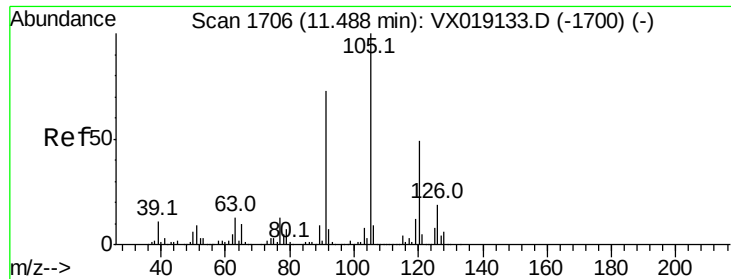
77 1.3 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.389 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

Instrument :

MSVOA_X

ClientSampleId :

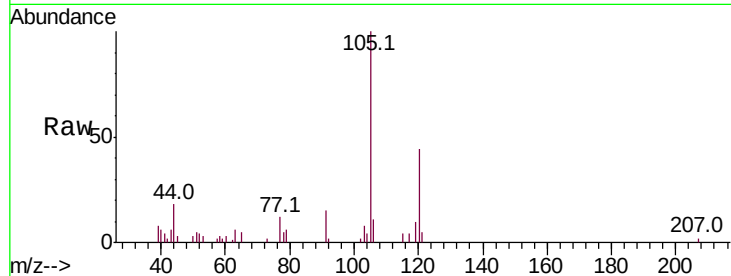
PB132824ZHE#03

Tot Ion:105 Resp: 5148

Ion Ratio Lower Upper

105 100

120 49.0 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

4000

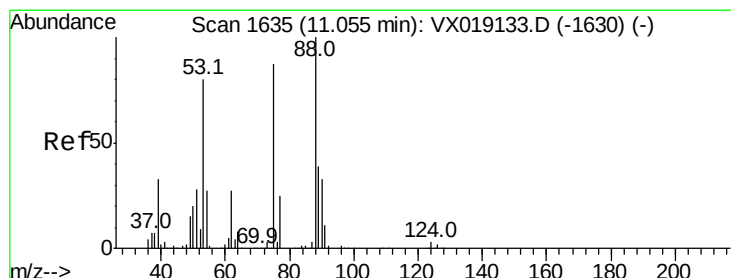
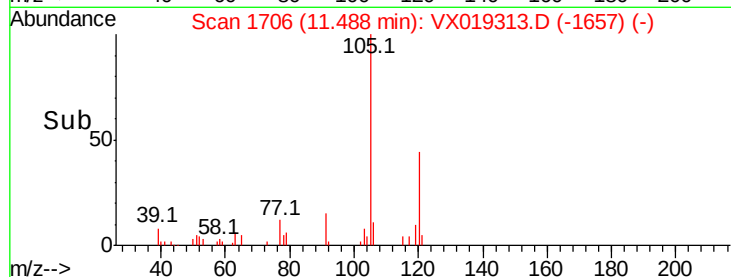
3000

2000

1000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 66.868 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019133.D

Acq: 05 Nov 2020 14:55

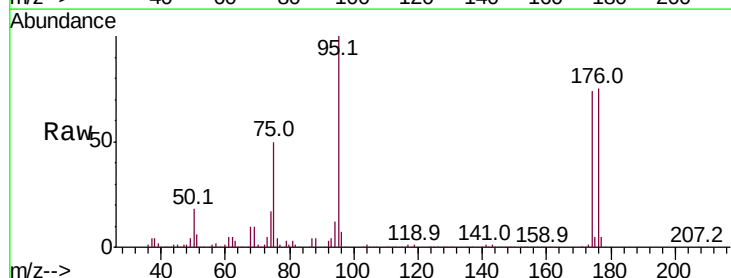
Tgt Ion: 75 Resp: 115936

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#



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

120000

100000

80000

60000

40000

20000

0

Time-->

