

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019108.D
 Acq On : 24 Oct 2020 05:36
 Operator : JC/SP
 Sample : PB132563ZHE#07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132563ZHE#07

Quant Time: Oct 26 05:40:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102120W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 22 17:51:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	258604	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	455327	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	439949	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	220418	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	160748	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
35) Dibromofluoromethane	5.46	113	140162	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
50) Toluene-d8	8.70	98	570185	51.83	ug/l	0.00
Spiked Amount			Recovery	=	103.66%	
62) 4-Bromofluorobenzene	11.12	95	202500	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	

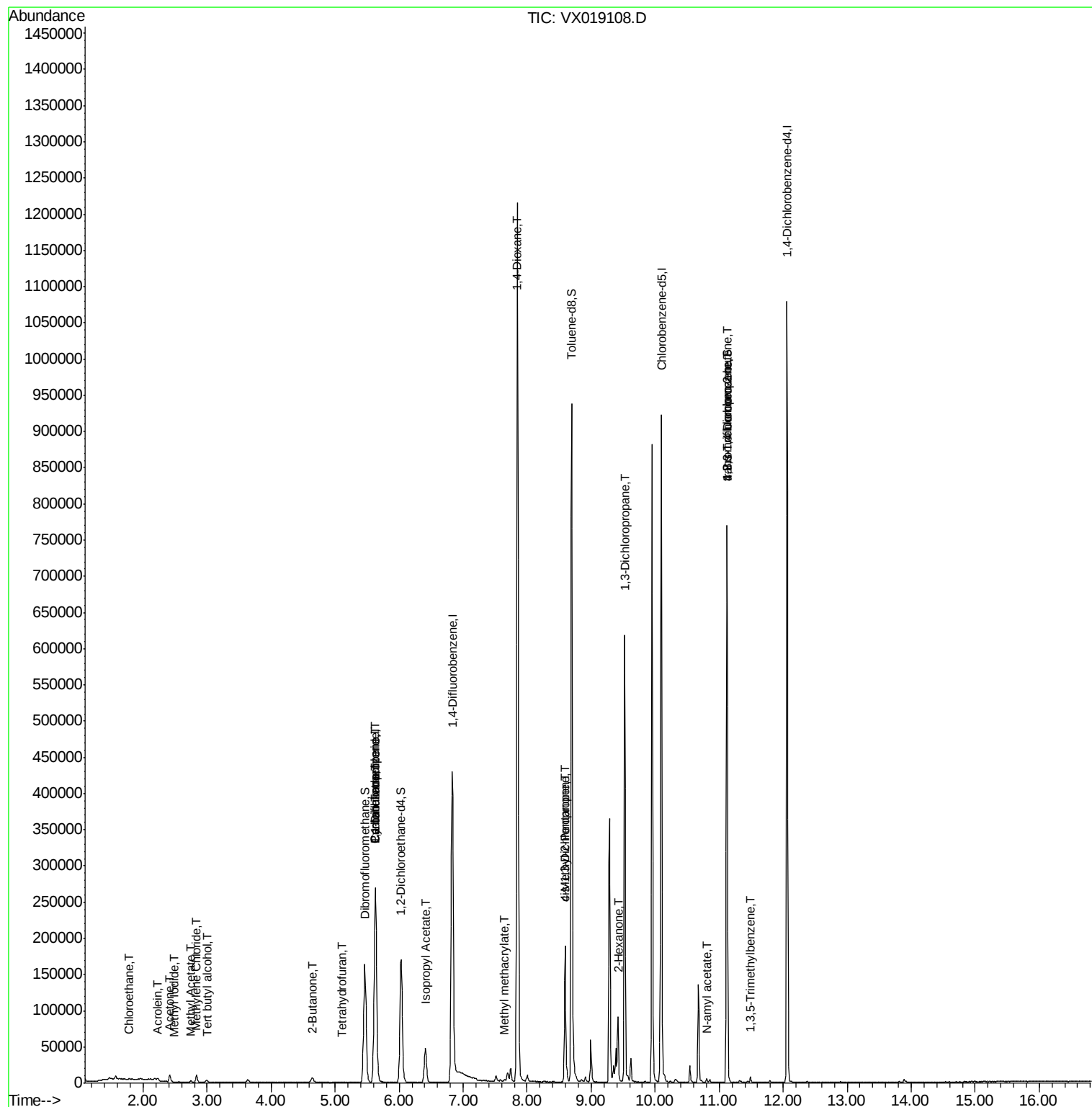
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	236	Below Cal		94
6) Chloroethane	1.79	64	81	1.303	ug/l #	43
10) Methyl Iodide	2.49	142	19	4.775	ug/l #	42
11) Tert butyl alcohol	3.00	59	2093	3.336	ug/l #	75
13) Acrolein	2.23	56	29	13.741	ug/l #	1
16) Acetone	2.42	43	9490	8.994	ug/l	90
18) Methyl Acetate	2.75	43	2148	0.820	ug/l	94
20) Methylene Chloride	2.83	84	4462	1.519	ug/l #	97
25) 2-Butanone	4.64	43	2467	1.480	ug/l #	79
29) Tetrahydrofuran	5.11	42	958	0.961	ug/l #	64
31) Cyclohexane	5.62	56	5231	1.442	ug/l #	14
36) 1,1-Dichloropropene	5.63	75	19389	4.746	ug/l #	48
38) Carbon Tetrachloride	5.63	117	25203	5.877	ug/l #	16
43) Isopropyl Acetate	6.41	43	60664	10.272	ug/l	99
48) Methyl methacrylate	7.65	41	3054	1.049	ug/l #	5
49) 1,4-Dioxane	7.84	88	211	3.209	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	59437	17.079	ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	33835	6.583	ug/l #	59
57) 1,3-Dichloropropane	9.52	76	5903	1.148	ug/l #	42
59) 2-Hexanone	9.42	43	53202	20.514	ug/l #	17
74) N-amyl acetate	10.81	43	2565	0.505	ug/l #	40
76) 1,2,3-Trichloropropane	11.12	75	100232	22.752	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	3539	0.270	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.12	75	100232	57.965	ug/l #	15

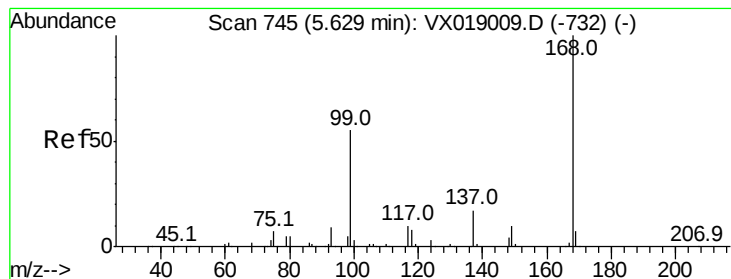
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 26 05:40:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102120W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 22 17:51:42 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

Instrument :

MSVOA_X

ClientSampleId :

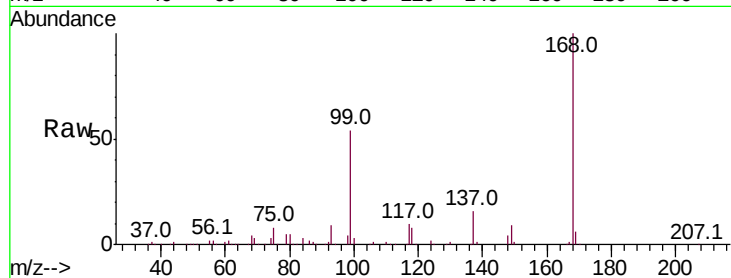
PB132563ZHE#07

Tot Ion:168 Resp: 258604

Ion Ratio Lower Upper

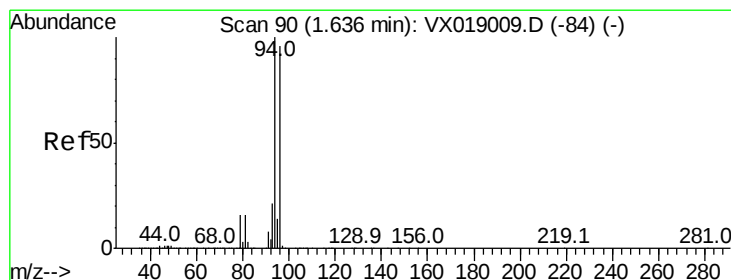
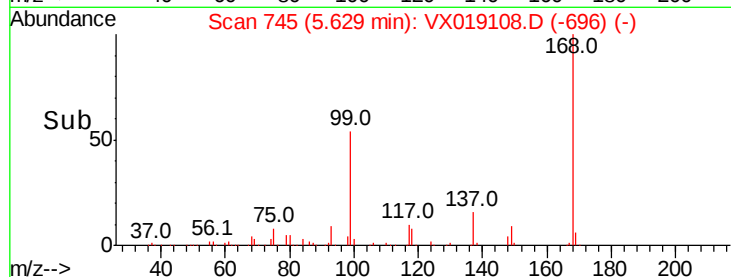
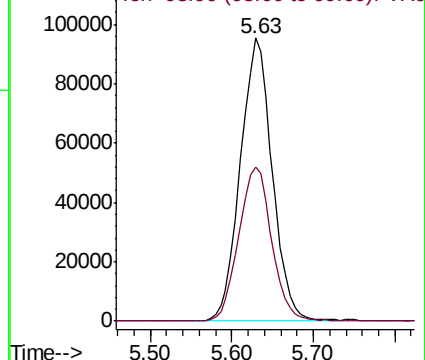
168 100

99 54.4 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.00 min

Lab File: VX019108.D

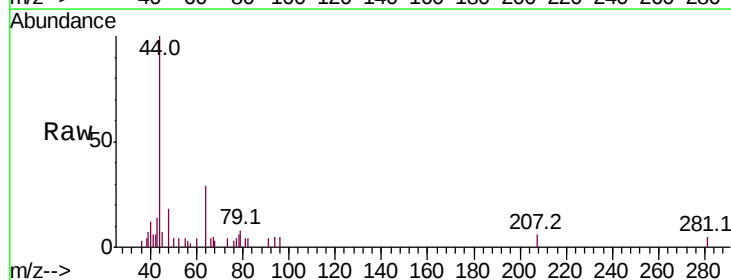
Acq: 24 Oct 2020 05:36

Tgt Ion: 94 Resp: 236

Ion Ratio Lower Upper

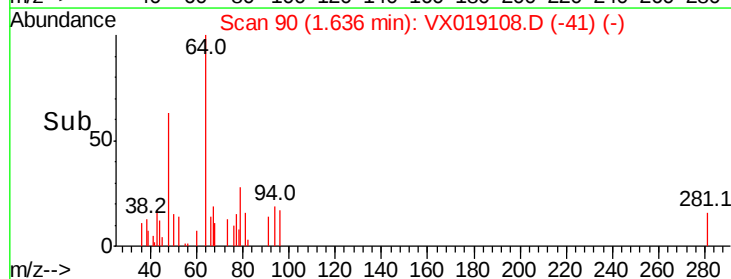
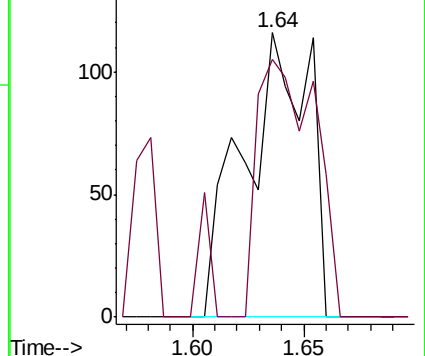
94 100

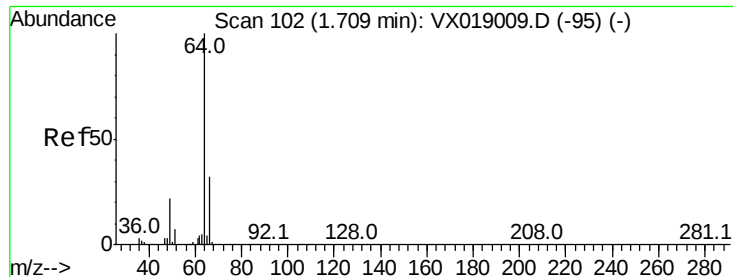
96 90.5 77.1 115.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.303 ug/l

RT: 1.79 min Scan# 115

Delta R.T. 0.08 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

Instrument :

MSVOA_X

ClientSampleId :

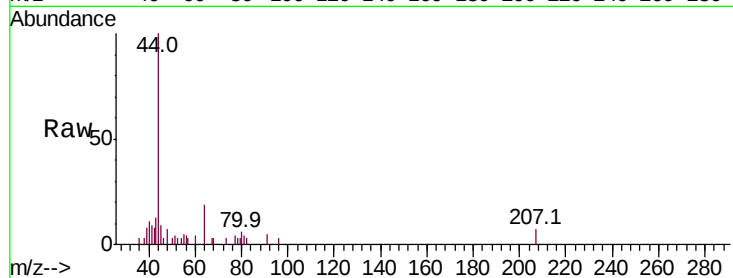
PB132563ZHE#07

Tot Ion: 64 Resp: 81

Ion Ratio Lower Upper

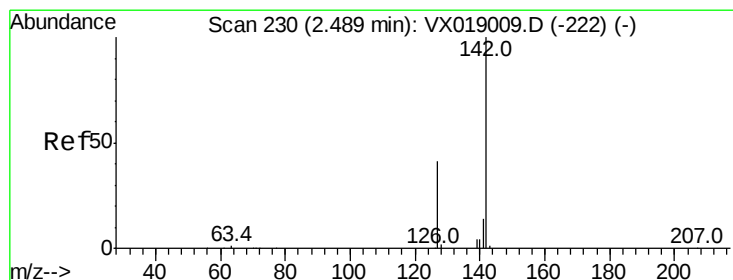
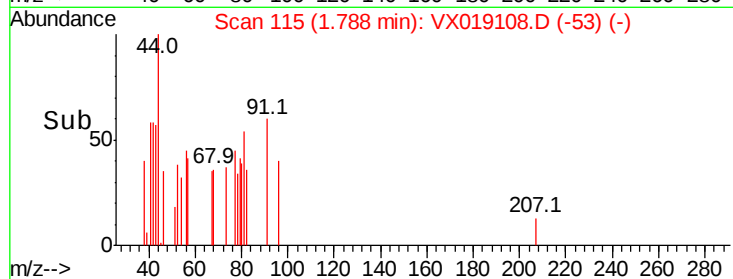
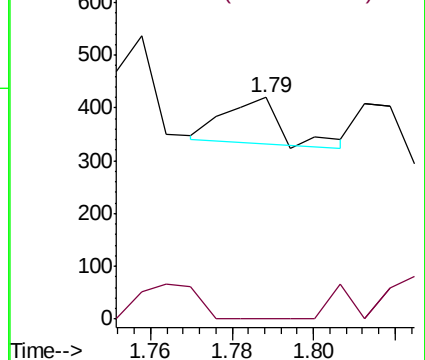
64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.775 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

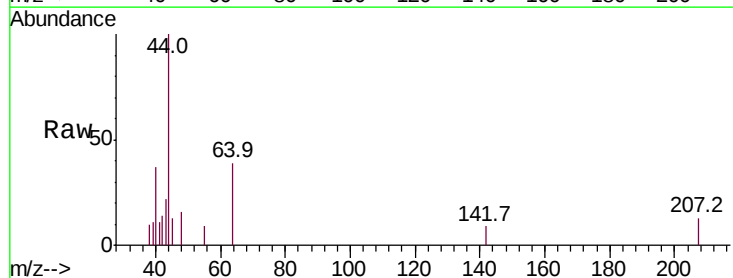
Tgt Ion: 142 Resp: 19

Ion Ratio Lower Upper

142 100

127 0.0 33.6 50.4#

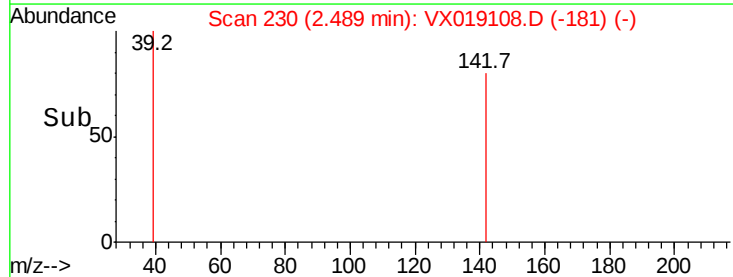
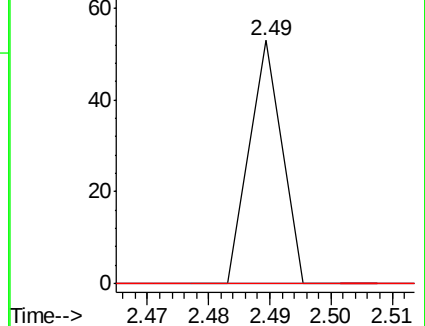
141 0.0 11.2 16.8#

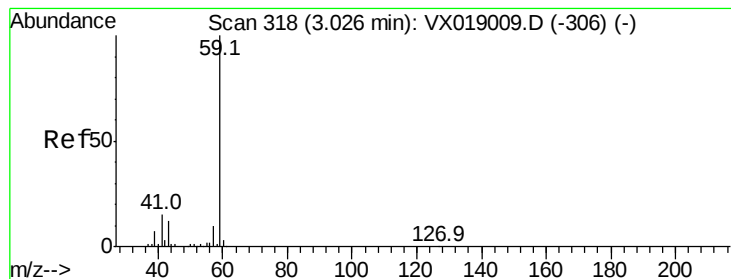


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



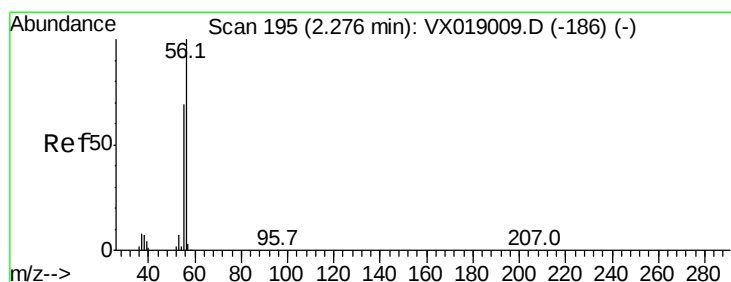
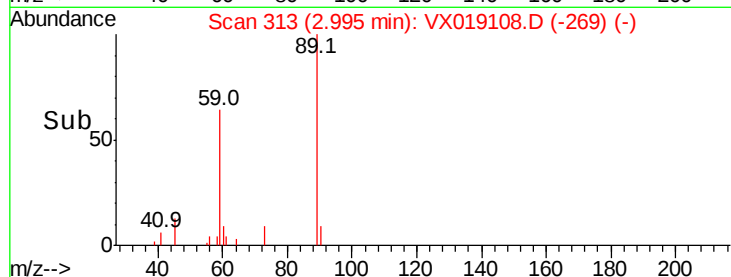
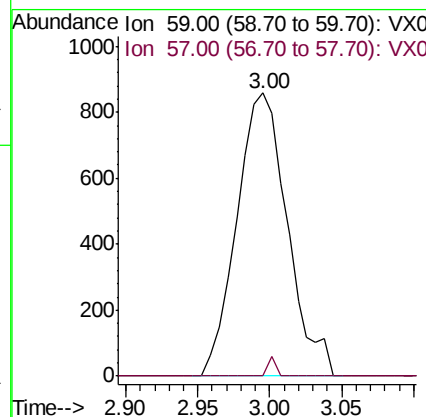
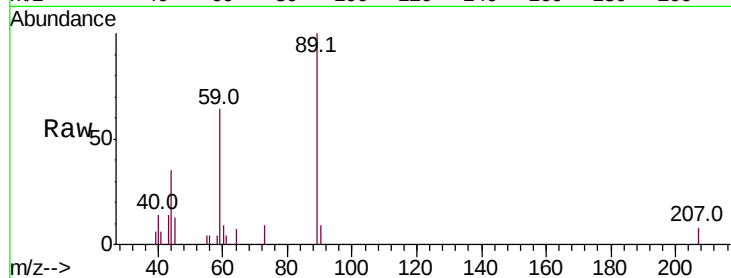


#11

Tert butyl alcohol
Concen: 3.336 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.03 min
Lab File: VX019108.D
Acq: 24 Oct 2020 05:36

Instrument :
MSVOA_X
ClientSampleId :
PB132563ZHE#07

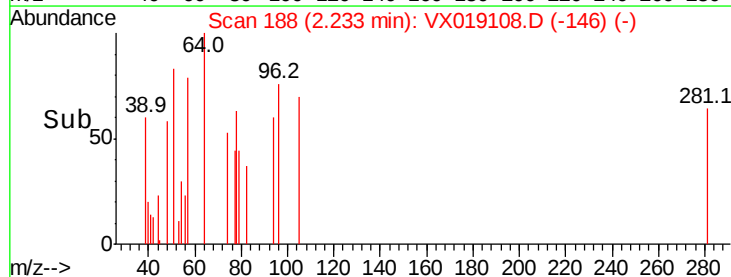
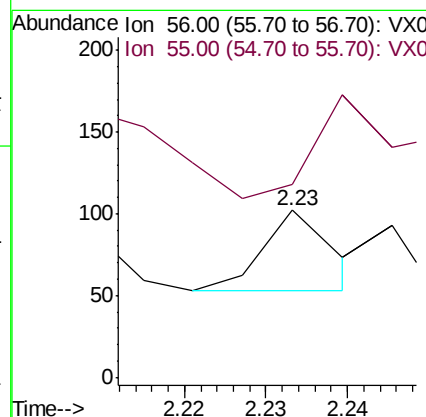
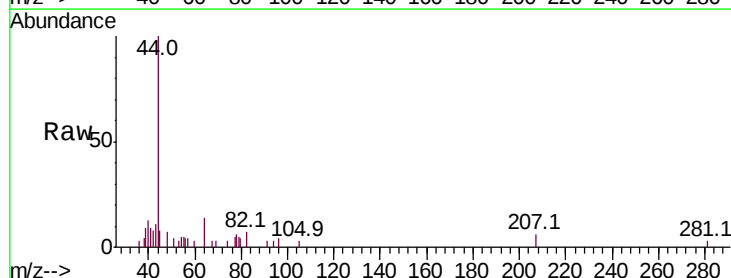
Tot Ion: 59 Resp: 2093
Ion Ratio Lower Upper
59 100
57 1.1 8.2 12.2#

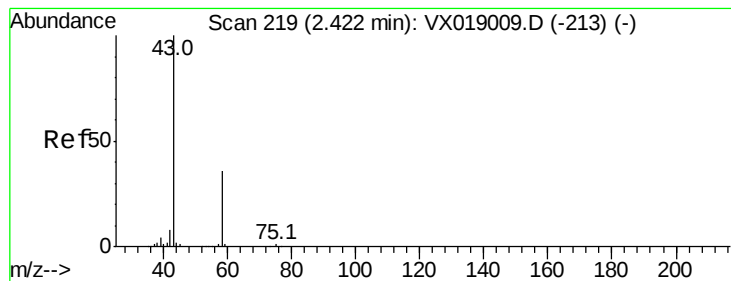


#13

Acrolein
Concen: 13.741 ug/l
RT: 2.23 min Scan# 188
Delta R.T. -0.04 min
Lab File: VX019108.D
Acq: 24 Oct 2020 05:36

Tgt Ion: 56 Resp: 29
Ion Ratio Lower Upper
56 100
55 1313.8 54.2 81.4#





#16

Acetone

Concen: 8.994 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

Instrument :

MSVOA_X

ClientSampleId :

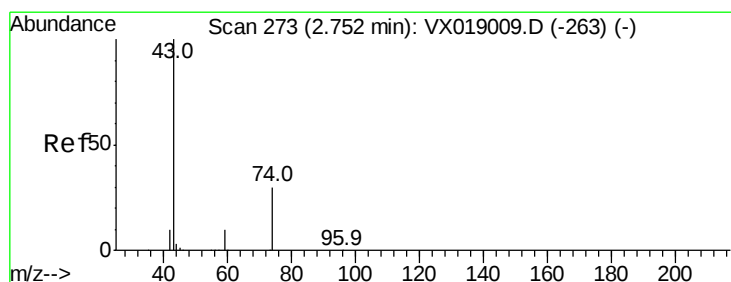
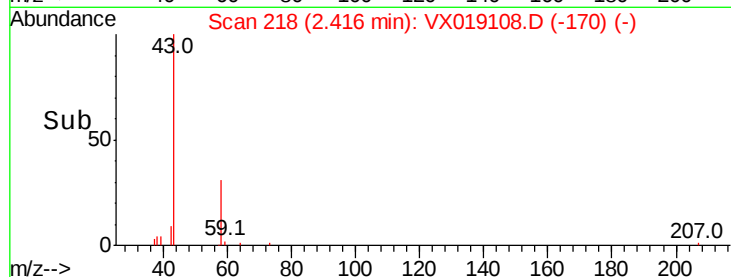
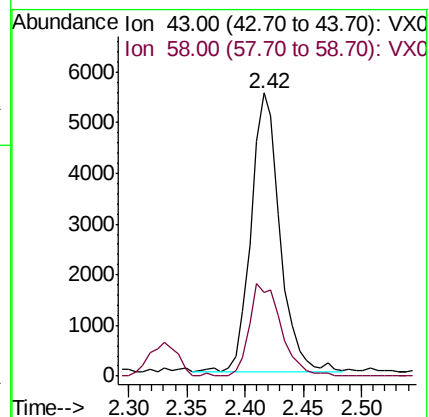
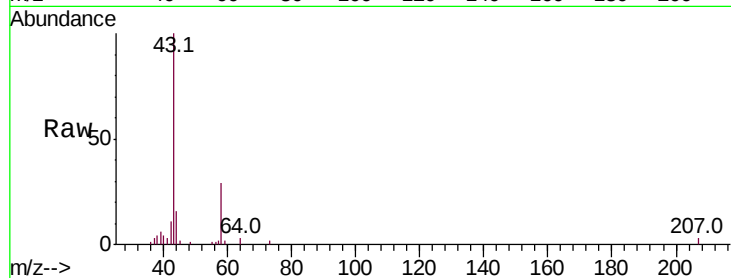
PB132563ZHE#07

Tot Ion: 43 Resp: 9490

Ion Ratio Lower Upper

43 100

58 29.9 28.6 42.8



#18

Methyl Acetate

Concen: 0.820 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX019108.D

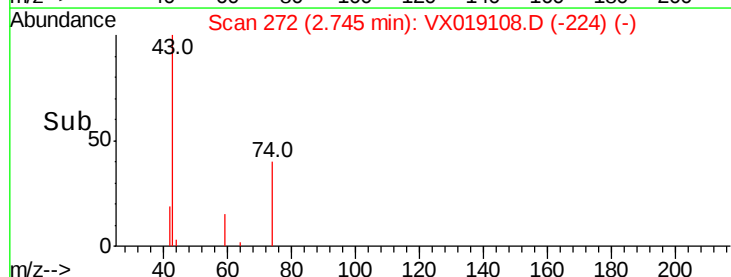
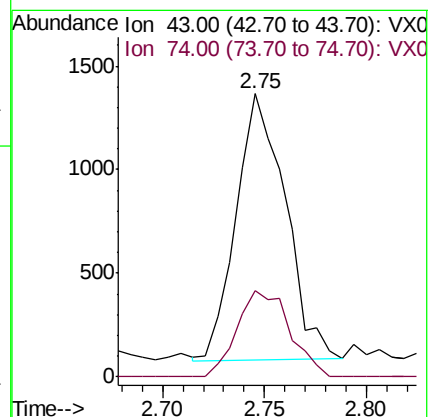
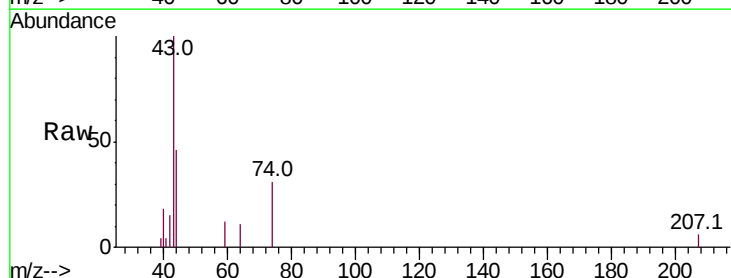
Acq: 24 Oct 2020 05:36

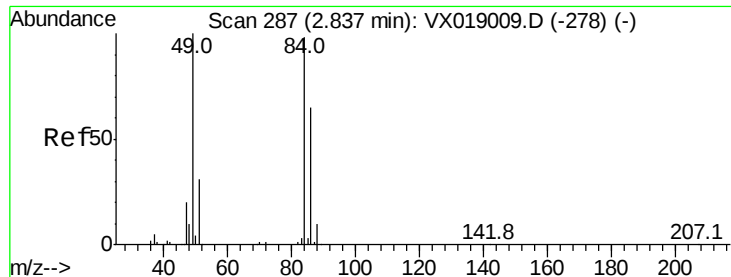
Tgt Ion: 43 Resp: 2148

Ion Ratio Lower Upper

43 100

74 34.5 24.9 37.3

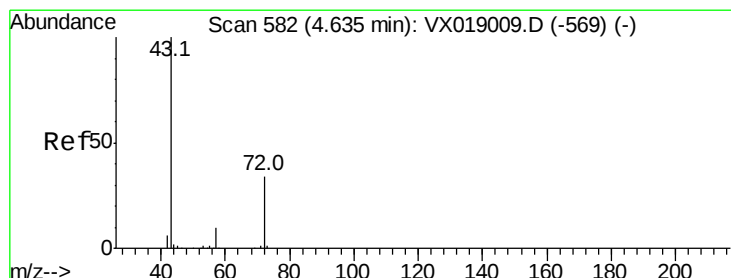
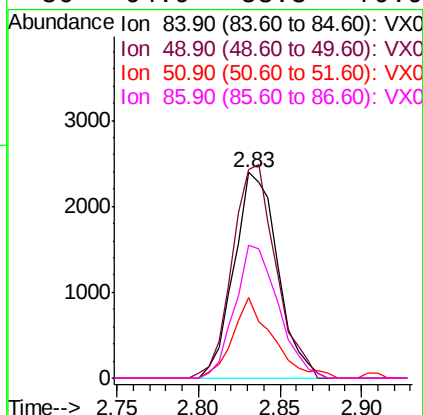
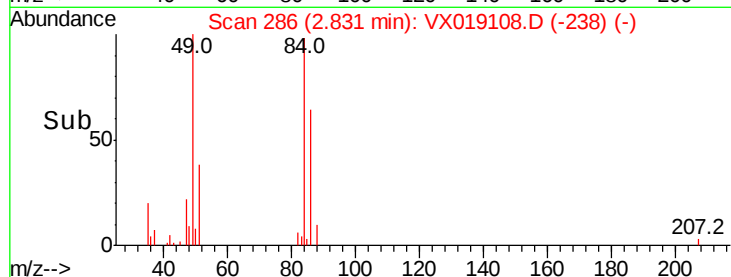
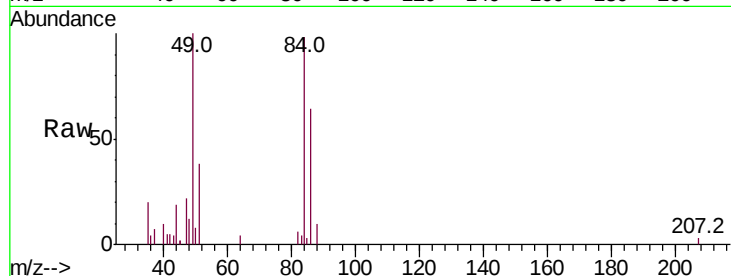




#20
Methvlene Chloride
Concen: 1.519 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX019108.D
Acq: 24 Oct 2020 05:36

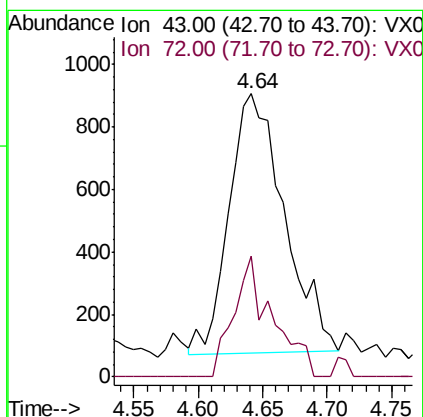
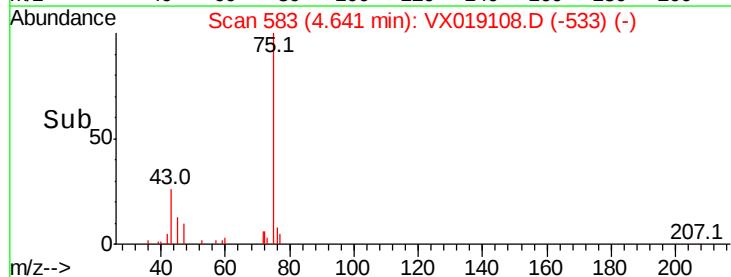
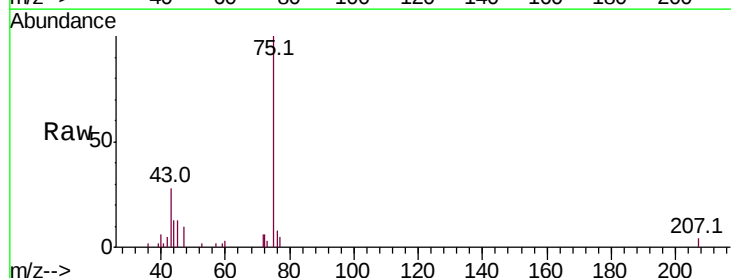
Instrument :
MSVOA_X
ClientSampleId :
PB132563ZHE#07

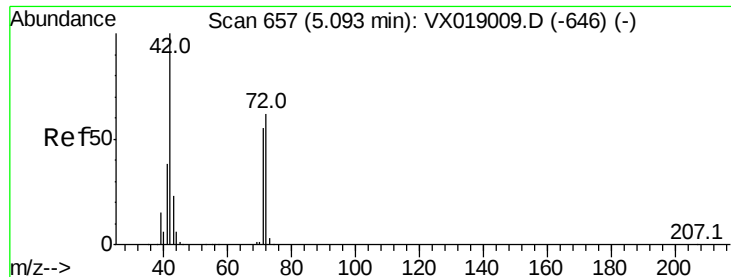
Tot Ion: 84 Resp: 4462
Ion Ratio Lower Upper
84 100
49 101.5 81.6 122.4
51 39.1 25.6 38.4#
86 64.9 53.3 79.9



#25
2-Butanone
Concen: 1.480 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX019108.D
Acq: 24 Oct 2020 05:36

Tgt Ion: 43 Resp: 2467
Ion Ratio Lower Upper
43 100
72 47.1 27.8 41.6#





#29

Tetrahydrofuran

Concen: 0.961 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

Instrument :

MSVOA_X

ClientSampleId :

PB132563ZHE#07

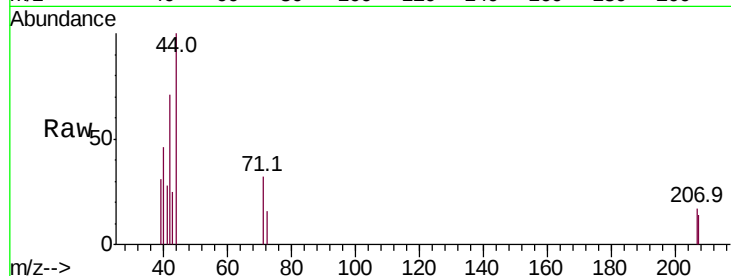
Tot Ion: 42 Resp: 958

Ion Ratio Lower Upper

42 100

72 30.0 49.1 73.7#

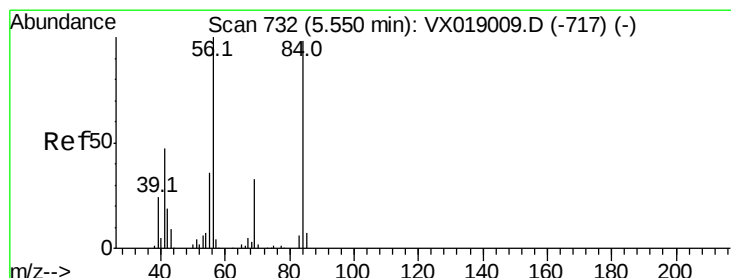
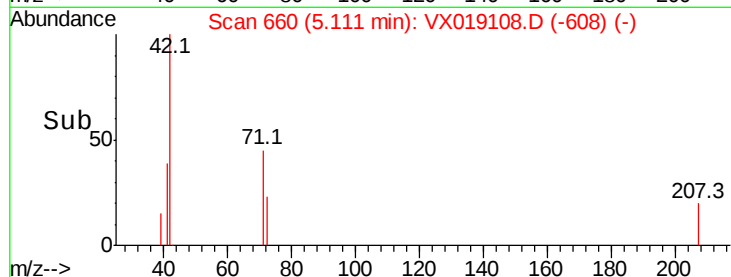
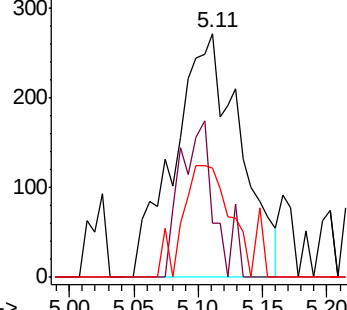
71 32.9 44.2 66.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.442 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

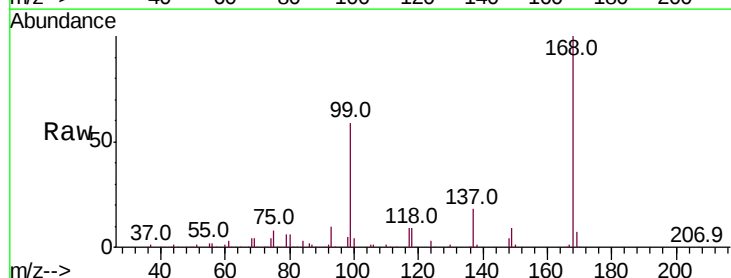
Tgt Ion: 56 Resp: 5231

Ion Ratio Lower Upper

56 100

69 169.0 26.2 39.2#

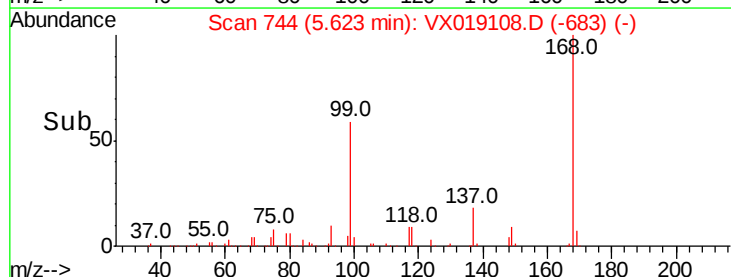
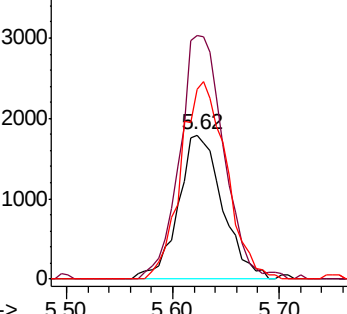
84 131.7 78.3 117.5#

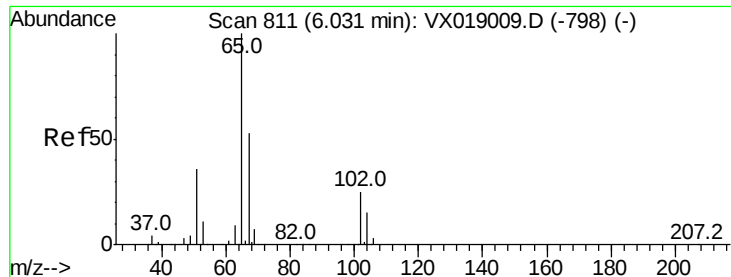


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.893 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

Instrument :

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ClientSampleId :

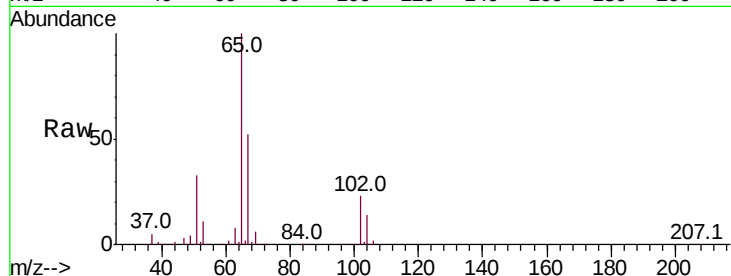
PB132563ZHE#07

Tot Ion: 65 Resp: 160748

Ion Ratio Lower Upper

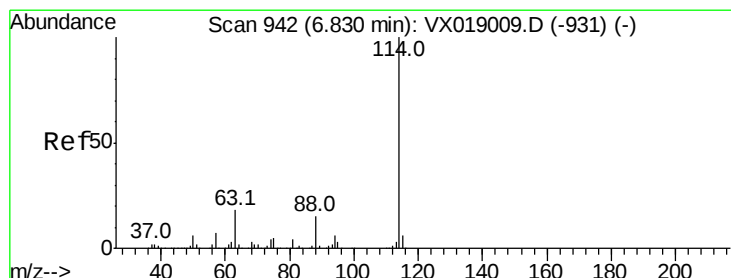
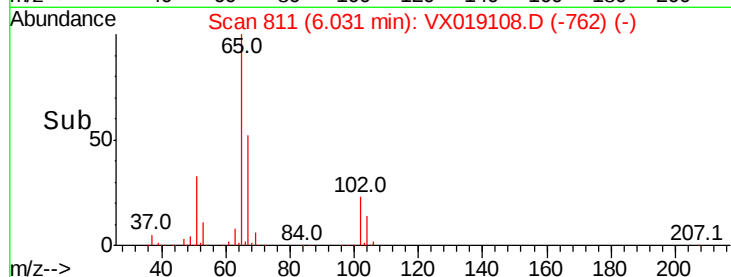
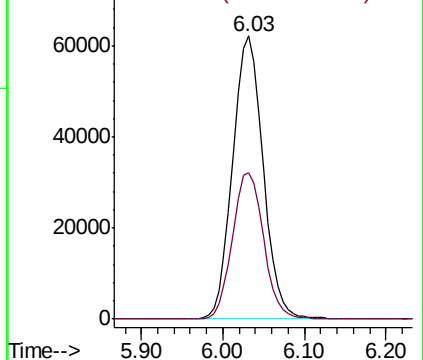
65 100

67 52.9 0.0 107.0



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: VX019108.D

Acq: 24 Oct 2020 05:36

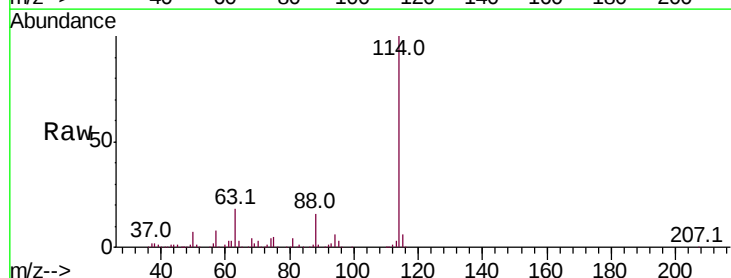
Tgt Ion: 114 Resp: 455327

Ion Ratio Lower Upper

114 100

63 18.0 0.0 36.8

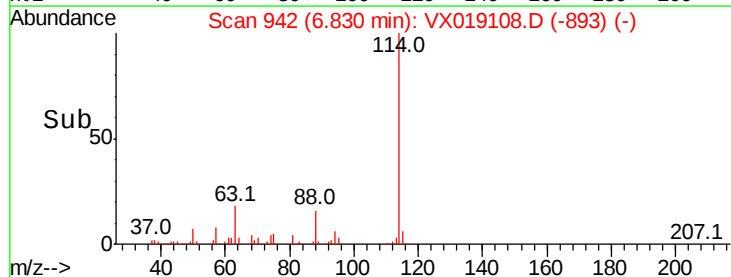
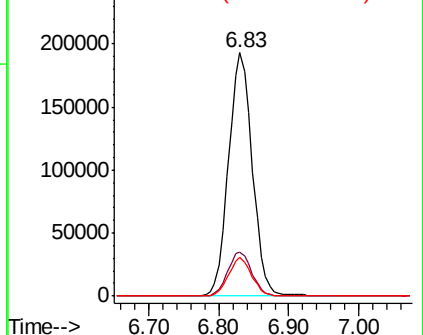
88 15.9 0.0 30.2

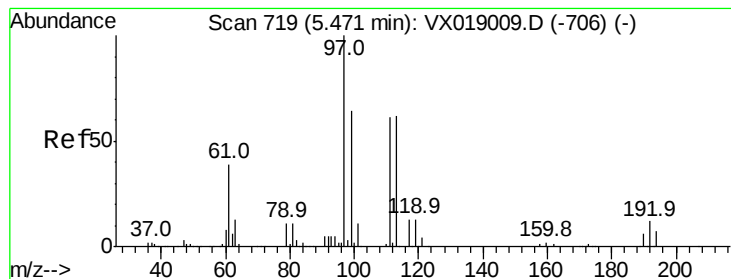


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.620 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

Instrument :

MSVOA_X

ClientSampleId :

PB132563ZHE#07

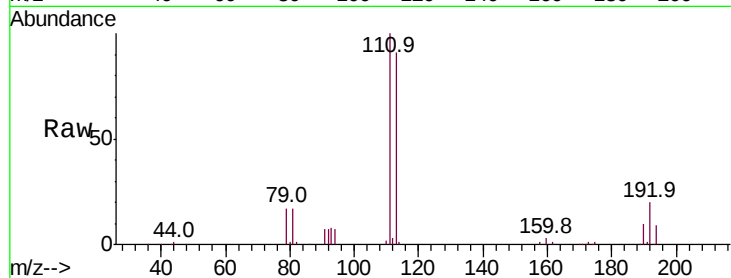
Tot Ion:113 Resp: 140162

Ion Ratio Lower Upper

113 100

111 104.4 81.5 122.3

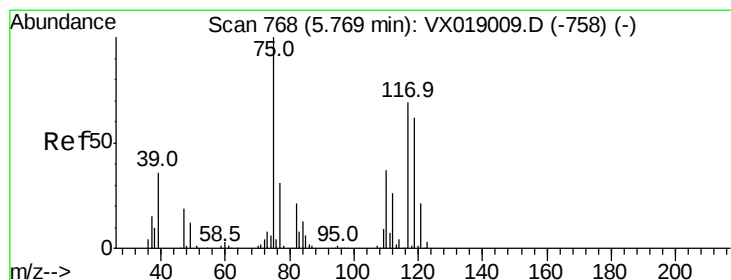
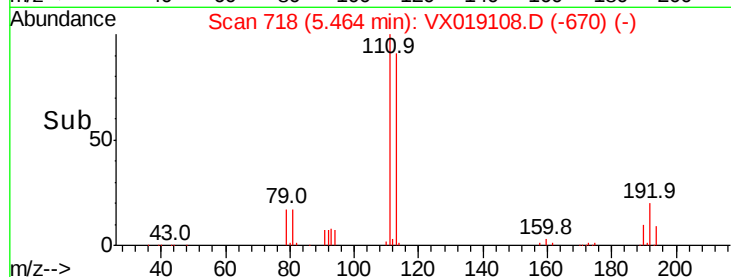
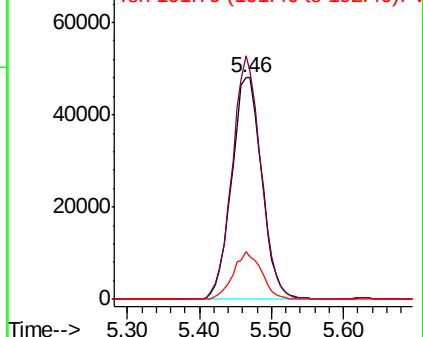
192 20.3 16.3 24.5



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: 4.746 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

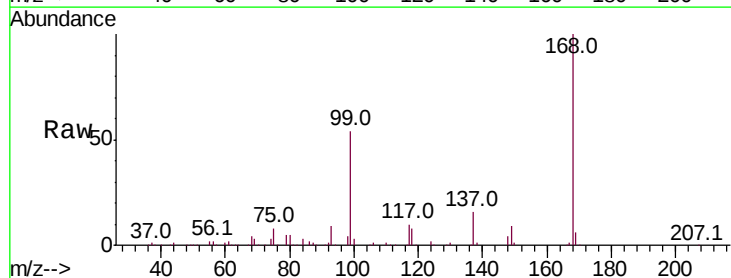
Tgt Ion: 75 Resp: 19389

Ion Ratio Lower Upper

75 100

110 9.9 19.4 58.2#

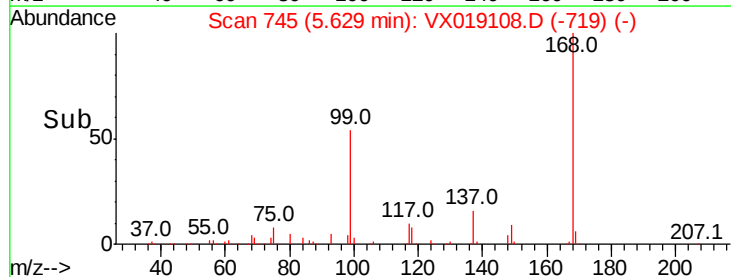
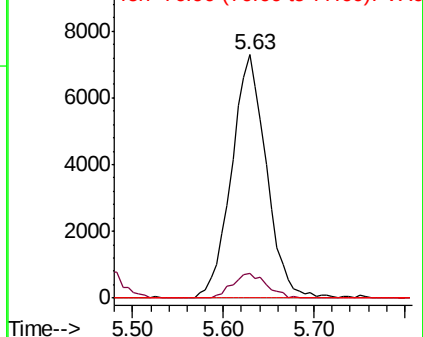
77 0.0 25.2 37.8#

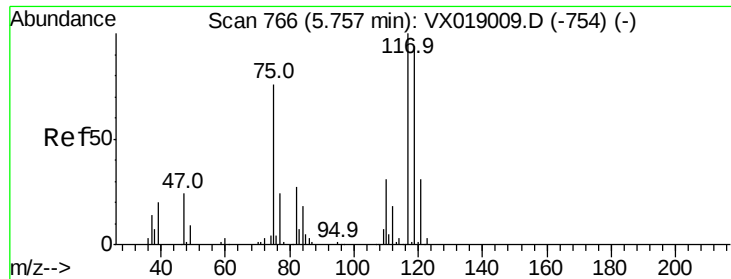


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.877 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

Instrument :

MSVOA_X

ClientSampleId :

PB132563ZHE#07

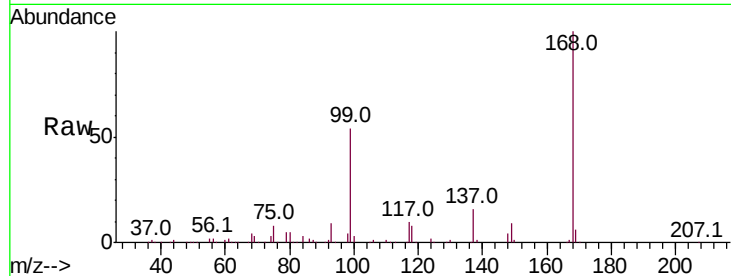
Tot Ion:117 Resp: 25203

Ion Ratio Lower Upper

117 100

119 4.5 75.4 113.0#

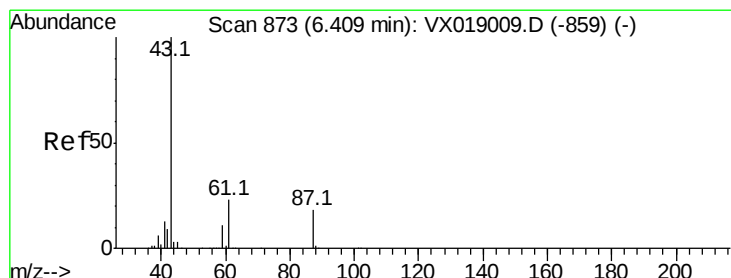
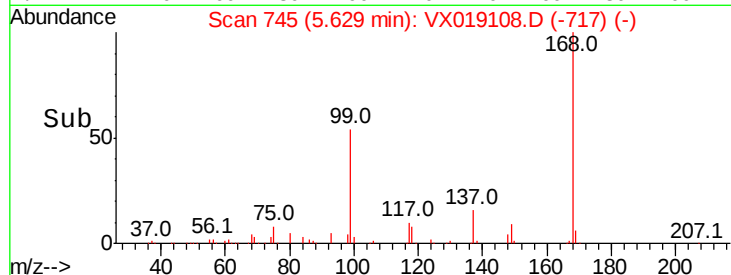
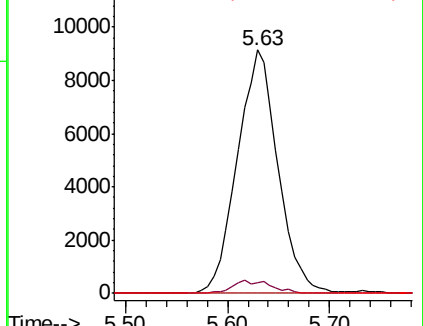
121 0.0 25.0 37.6#



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: 10.272 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

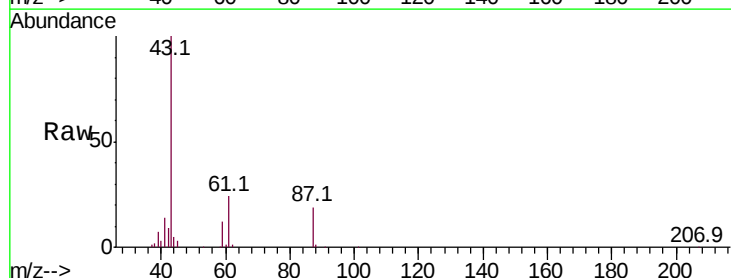
Tgt Ion: 43 Resp: 60664

Ion Ratio Lower Upper

43 100

61 23.9 18.7 28.1

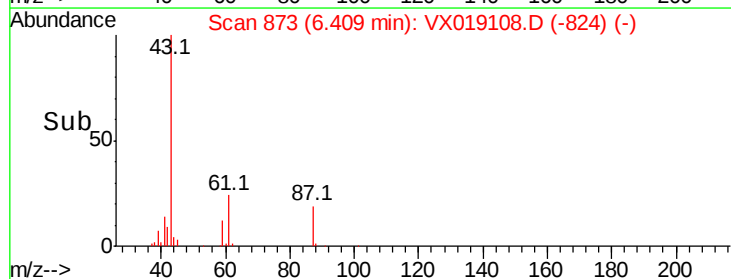
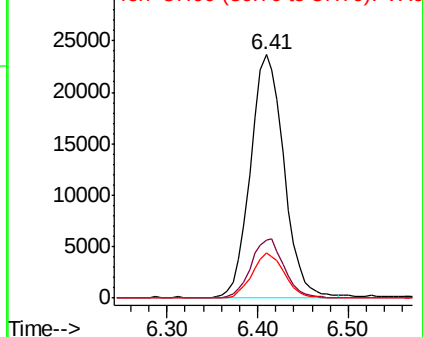
87 17.9 14.2 21.4

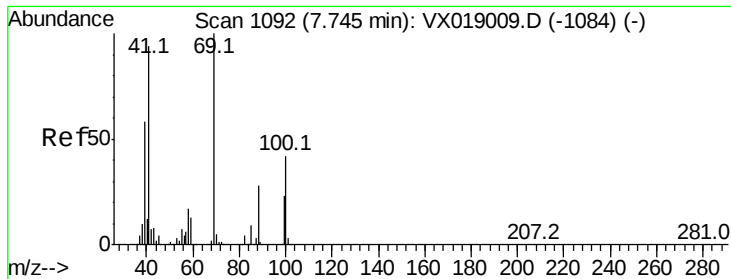


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 1.049 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.10 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

Instrument :

MSVOA_X

ClientSampleId :

PB132563ZHE#07

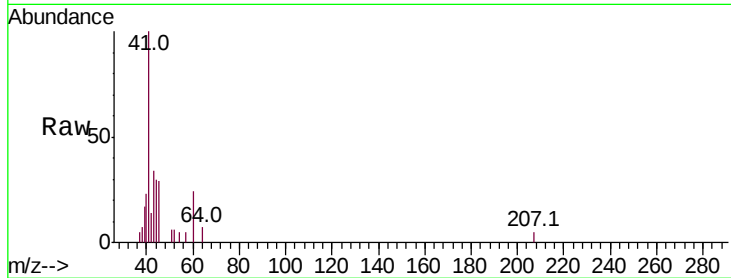
Tot Ion: 41 Resp: 3054

Ion Ratio Lower Upper

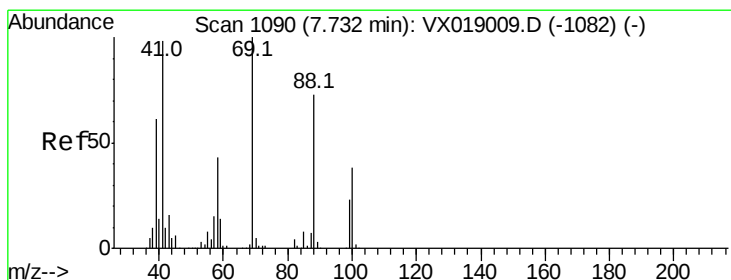
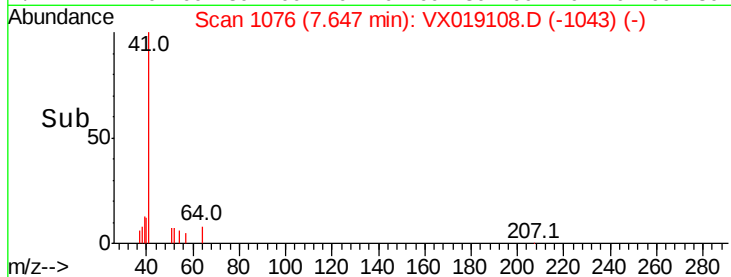
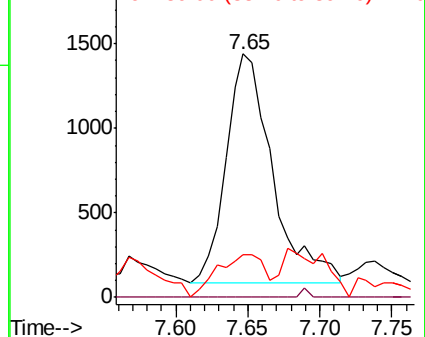
41 100

69 0.0 85.5 128.3#

39 0.0 49.3 73.9#



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: 3.209 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.11 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

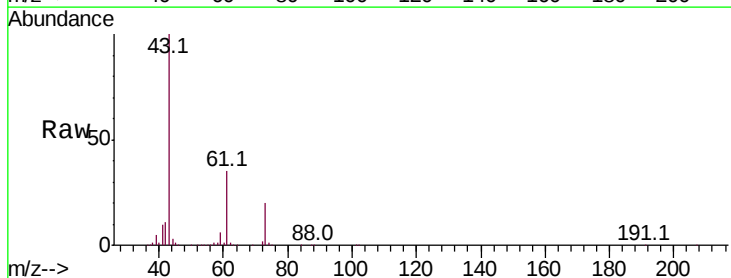
Tgt Ion: 88 Resp: 211

Ion Ratio Lower Upper

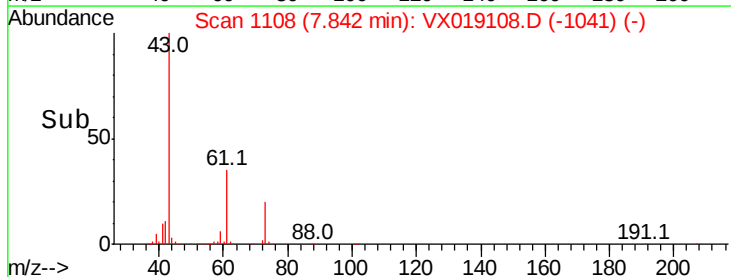
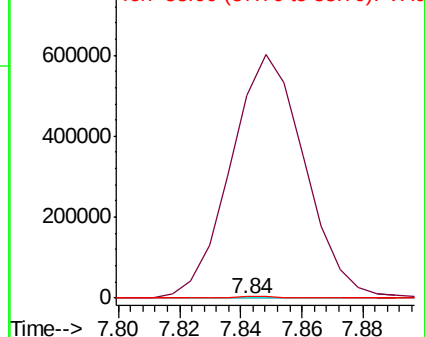
88 100

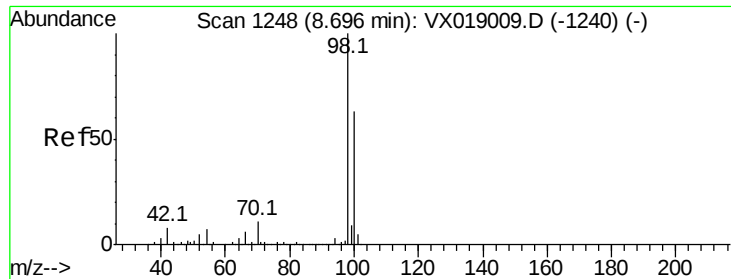
43 480961.6 20.3 30.5#

58 2466.4 48.4 72.6#



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

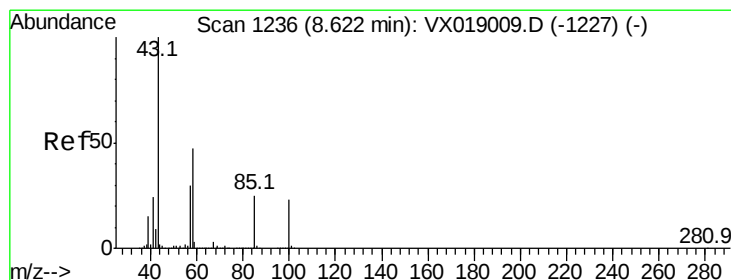
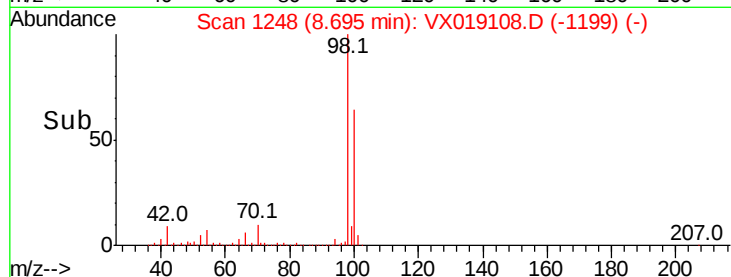
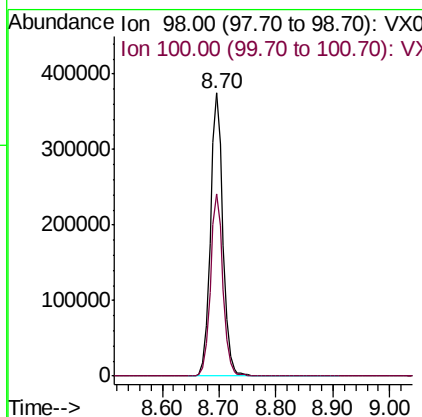
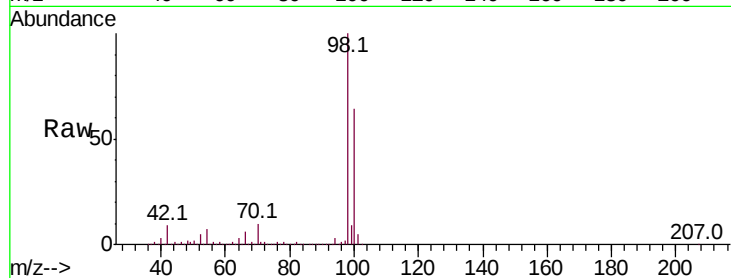




#50
Toluene-d8
Concen: 51.831 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019108.D
Acq: 24 Oct 2020 05:36

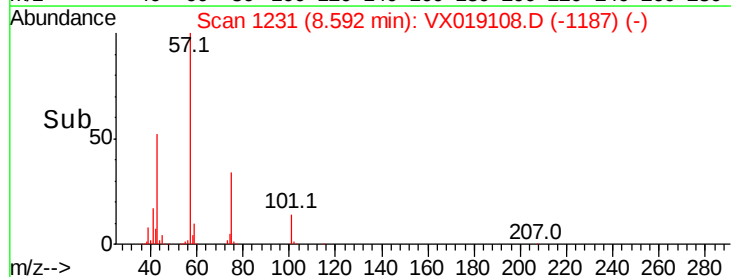
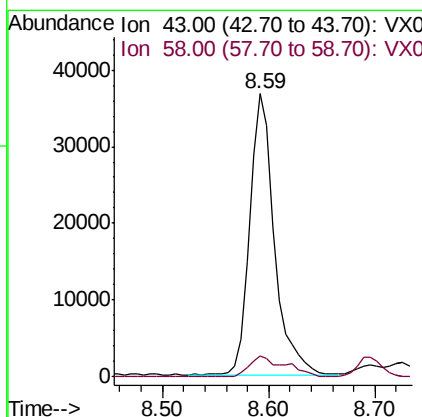
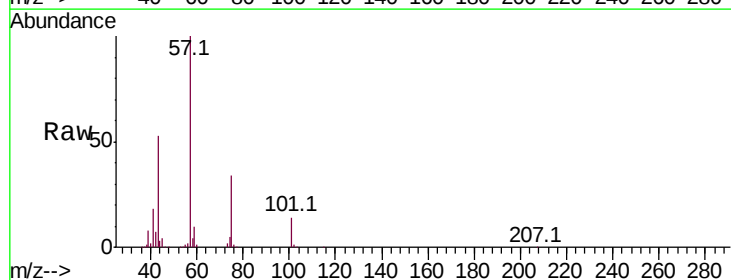
Instrument :
MSVOA_X
ClientSampleId :
PB132563ZHE#07

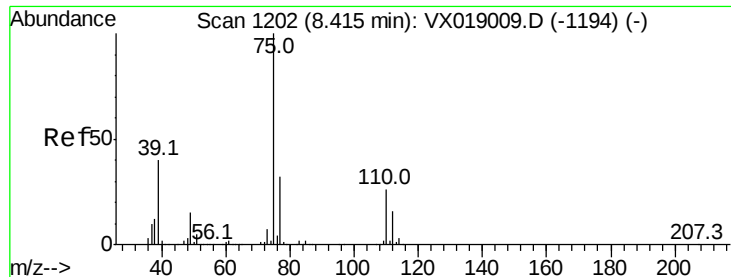
Tot Ion: 98 Resp: 570185
Ion Ratio Lower Upper
98 100
100 64.5 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 17.079 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX019108.D
Acq: 24 Oct 2020 05:36

Tgt Ion: 43 Resp: 59437
Ion Ratio Lower Upper
43 100
58 10.9 37.4 56.0#



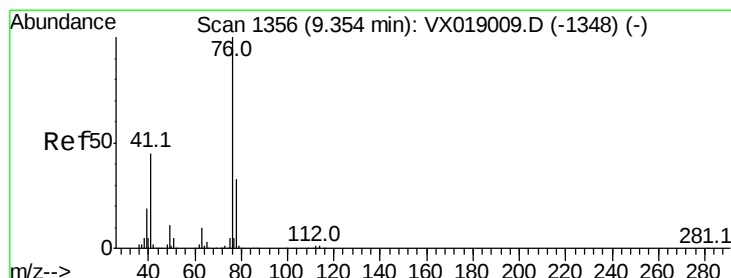
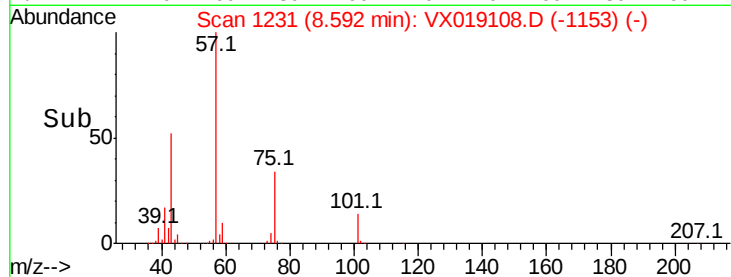
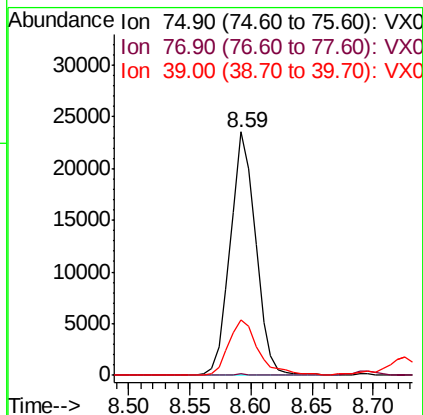
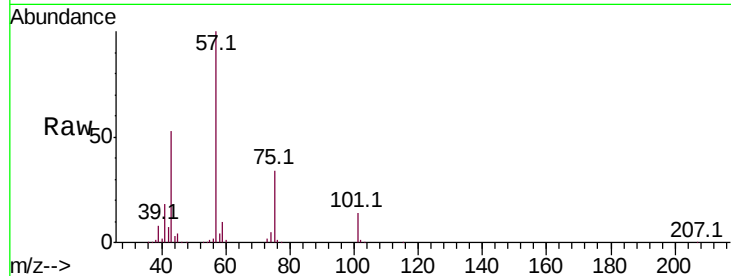


#54

cis-1,3-Dichloropropene
 Concen: 6.583 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019108.D
 Acq: 24 Oct 2020 05:36

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132563ZHE#07

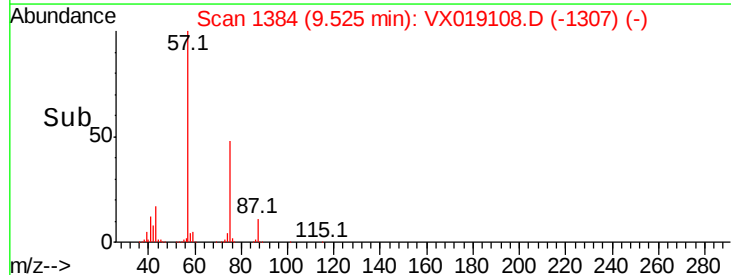
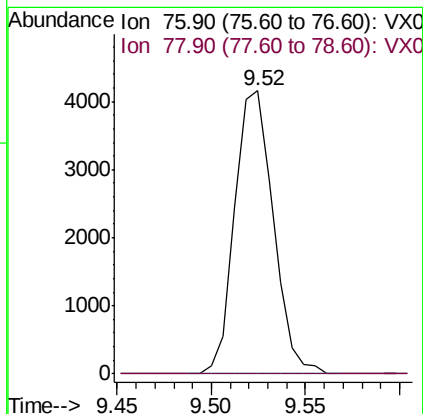
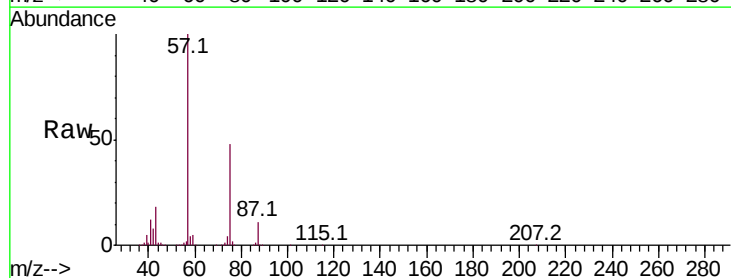
Tot Ion: 75 Resp: 33835
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.9 38.9#
 39 22.6 31.7 47.5#

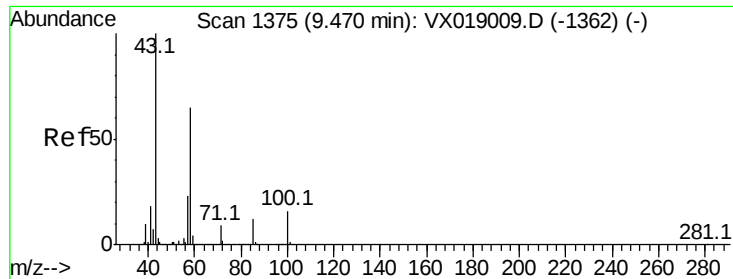


#57

1,3-Dichloropropane
 Concen: 1.148 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX019108.D
 Acq: 24 Oct 2020 05:36

Tgt Ion: 76 Resp: 5903
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

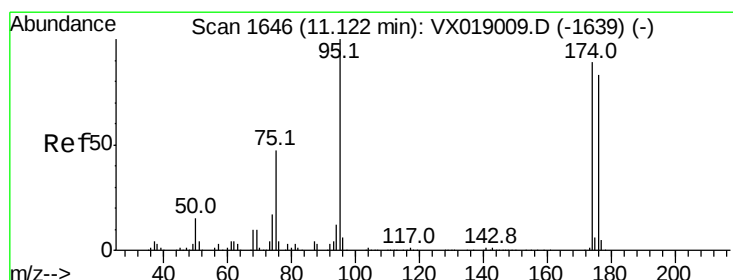
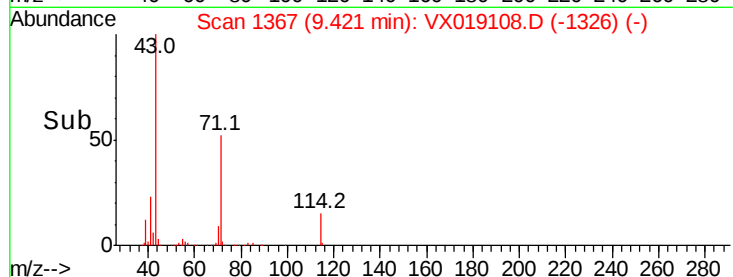
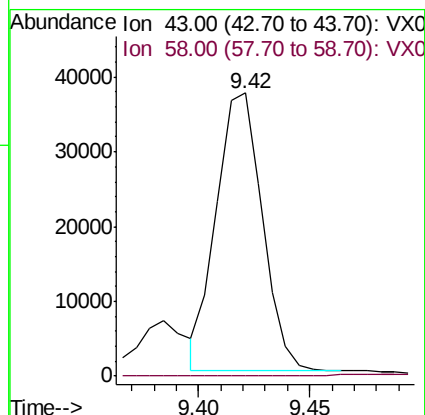
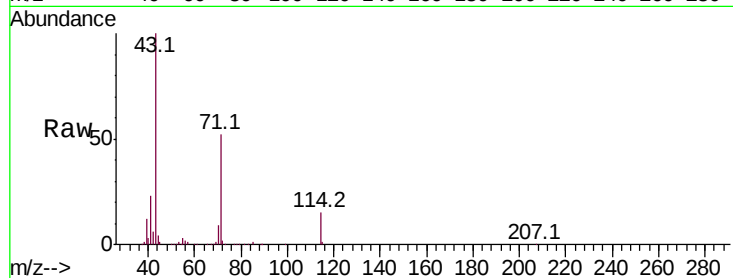




#59
2-Hexanone
Concen: 20.514 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX019108.D
Acq: 24 Oct 2020 05:36

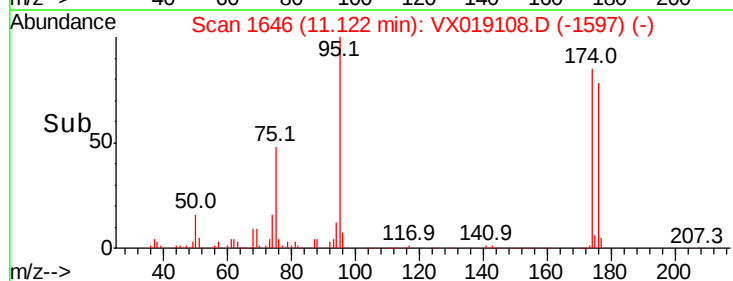
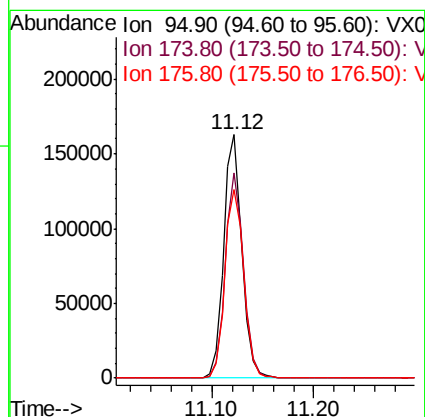
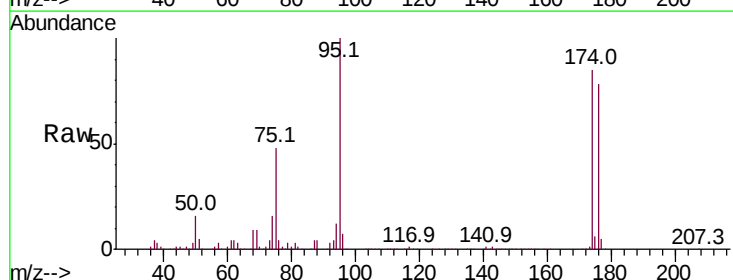
Instrument :
MSVOA_X
ClientSampleId :
PB132563ZHE#07

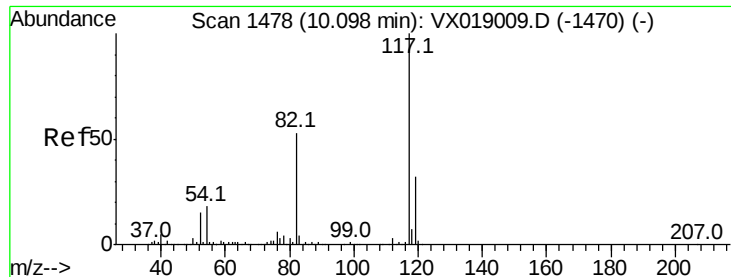
Tot Ion: 43 Resp: 53202
Ion Ratio Lower Upper
43 100
58 0.0 32.8 98.4#



#62
4-Bromofluorobenzene
Concen: 51.750 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019108.D
Acq: 24 Oct 2020 05:36

Tgt Ion: 95 Resp: 202500
Ion Ratio Lower Upper
95 100
174 83.8 0.0 167.6
176 80.7 0.0 165.2

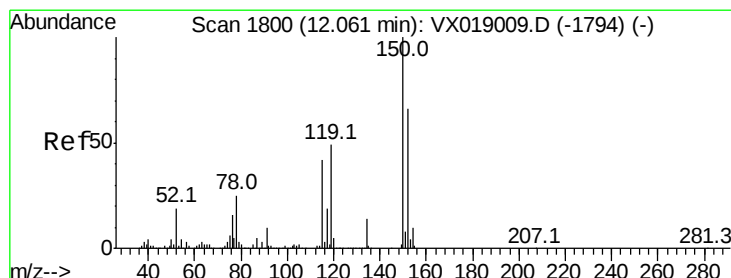
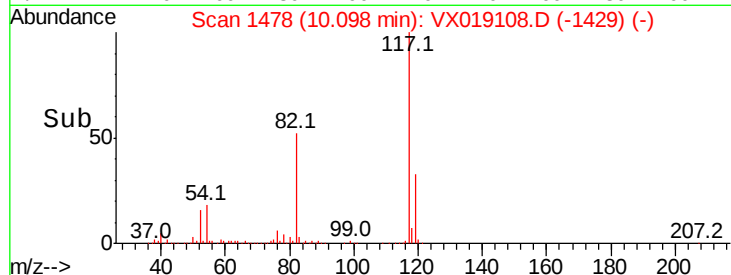
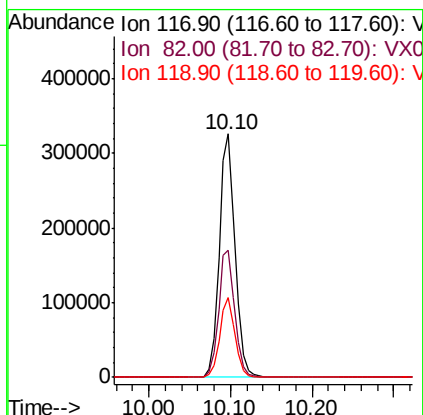
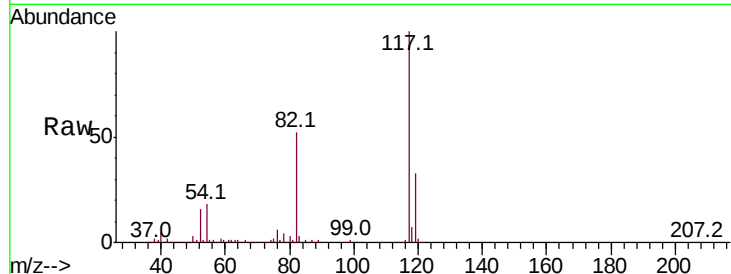




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019108.D
Acq: 24 Oct 2020 05:36

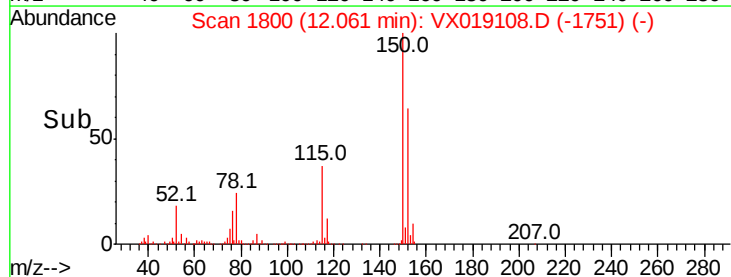
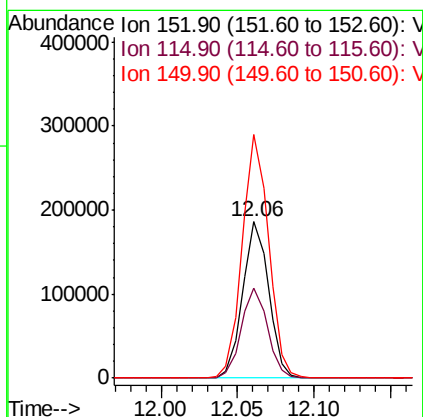
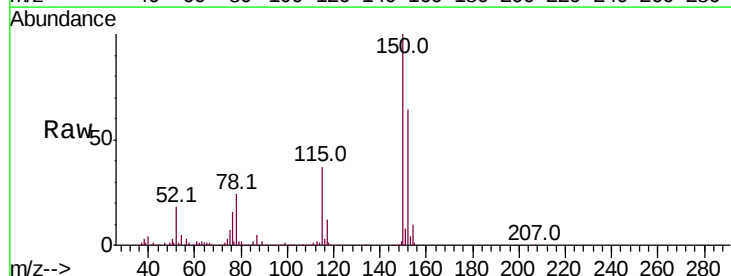
Instrument :
MSVOA_X
ClientSampleId :
PB132563ZHE#07

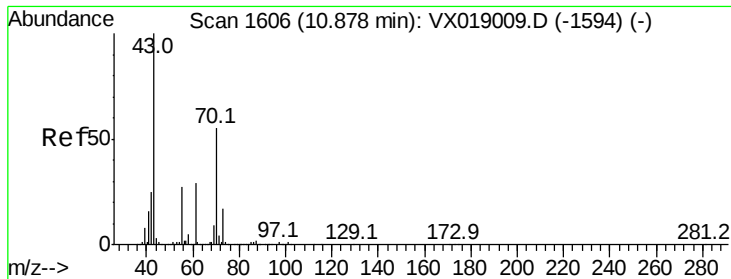
Tot Ion:117 Resp: 439949
Ion Ratio Lower Upper
117 100
82 52.3 42.4 63.6
119 33.0 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019108.D
Acq: 24 Oct 2020 05:36

Tgt Ion:152 Resp: 220418
Ion Ratio Lower Upper
152 100
115 58.0 40.8 122.5
150 157.1 0.0 345.6





#74

N-amvl acetate

Concen: 0.505 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX019108.D

Acq: 24 Oct 2020 05:36

Instrument :

MSVOA_X

ClientSampleId :

PB132563ZHE#07

Tot Ion: 43 Resp: 2565

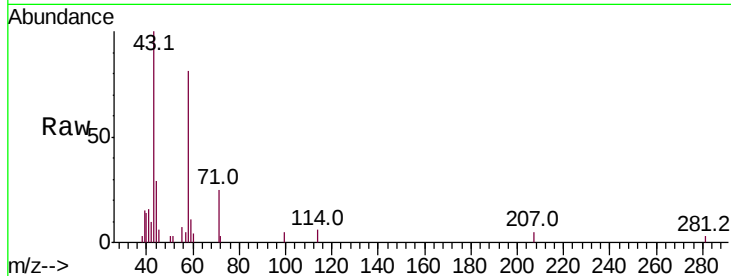
Ion Ratio Lower Upper

43 100

70 0.0 44.5 66.7#

55 10.8 21.9 32.9#

61 0.0 23.9 35.9#

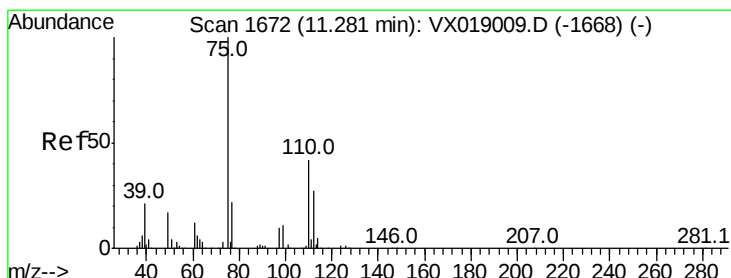
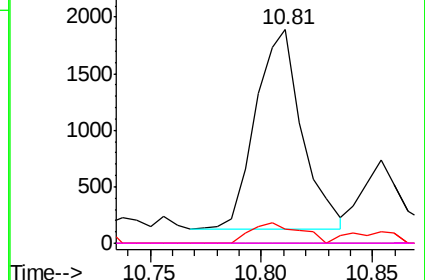
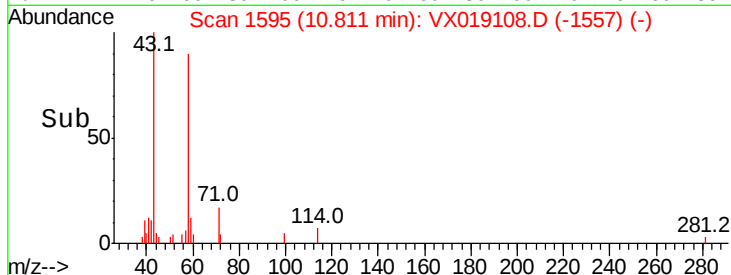


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.752 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019108.D

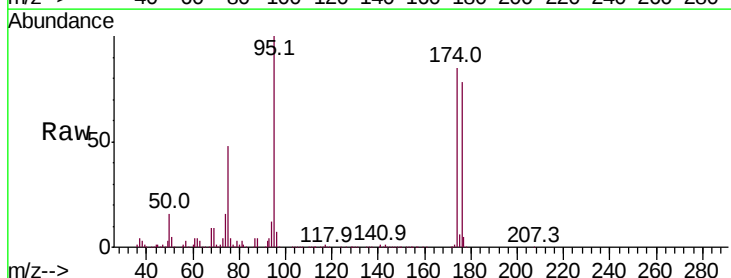
Acq: 24 Oct 2020 05:36

Tgt Ion: 75 Resp: 100232

Ion Ratio Lower Upper

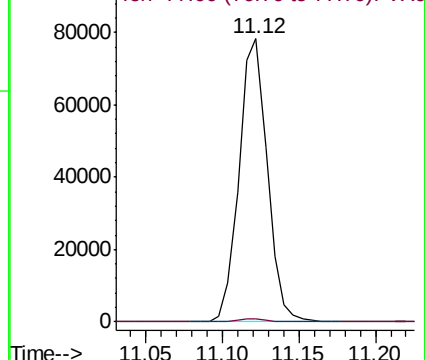
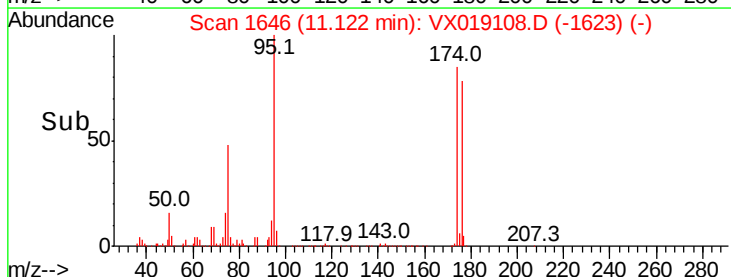
75 100

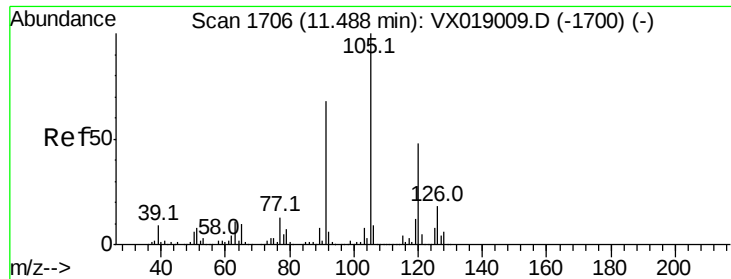
77 1.1 20.7 62.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

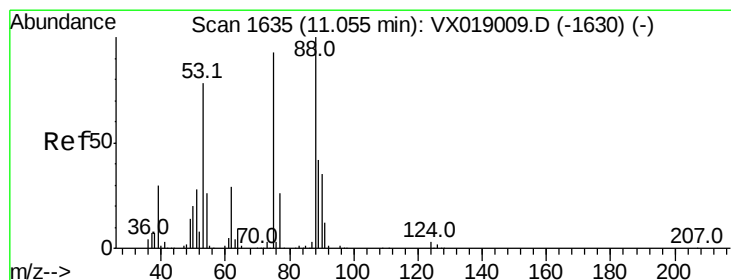
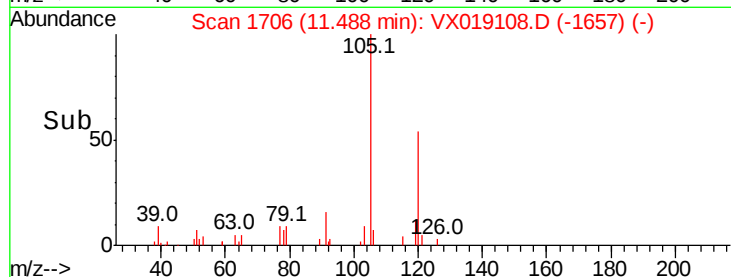
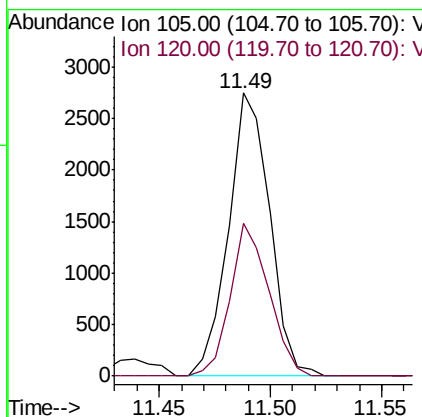
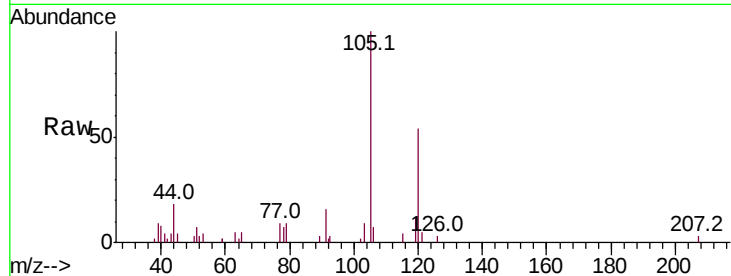




#80
 1,3,5-Trimethylbenzene
 Concen: 0.270 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. -0.00 min
 Lab File: VX019108.D
 Acq: 24 Oct 2020 05:36

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132563ZHE#07

Tot Ion:105 Resp: 3539
 Ion Ratio Lower Upper
 105 100
 120 50.7 25.2 75.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.965 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019108.D
 Acq: 24 Oct 2020 05:36

Tgt Ion: 75 Resp: 100232
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 37.2 55.8#

