

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX113020\
 Data File : VX019678.D
 Acq On : 30 Nov 2020 14:23
 Operator : JC/MD
 Sample : PB133266ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133266ZHE#05

Quant Time: Dec 01 02:40:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	297689	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	491534	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	427499	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	177774	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	186485	48.31	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.62%	
35) Dibromofluoromethane		5.46	113	151511	49.11	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	98.22%	
50) Toluene-d8		8.70	98	580913	48.45	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.90%	
62) 4-Bromofluorobenzene		11.12	95	197377	45.76	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	306	0.226	ug/l #	78
6) Chloroethane	1.67	64	1055	Below Cal	#	46
11) Tert butyl alcohol	2.99	59	14565	19.939	ug/l #	77
16) Acetone	2.43	43	11492	7.699	ug/l	93
18) Methyl Acetate	2.76	43	3477	1.572	ug/l	96
20) Methylene Chloride	2.83	84	21952	5.884	ug/l	98
25) 2-Butanone	4.65	43	6915	3.084	ug/l	97
29) Tetrahydrofuran	5.11	42	1751	1.224	ug/l	89
31) Cyclohexane	5.62	56	5634	1.122	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22481	4.879	ug/l #	50
38) Carbon Tetrachloride	5.63	117	29598	6.636	ug/l #	17
43) Isopropyl Acetate	6.42	43	41397	5.693	ug/l	100
48) Methyl methacrylate	7.65	41	7299	2.143	ug/l #	9
49) 1,4-Dioxane	7.85	88	237	3.065	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	98707	23.277	ug/l #	47
52) Toluene	8.76	92	3055	0.353	ug/l	96
54) cis-1,3-Dichloropropene	8.59	75	53418	9.628	ug/l #	59
57) 1,3-Dichloropropane	9.52	76	27054	4.581	ug/l #	44
59) 2-Hexanone	9.52	43	316684	98.466	ug/l #	47
70) Styrene	10.70	104	168	1.662	ug/l #	47
74) N-amyl acetate	10.80	43	2120	0.460	ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	95431	24.598	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	3480	0.337	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	95431	65.046	ug/l #	12
95) Naphthalene	13.82	128	319	2.201	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

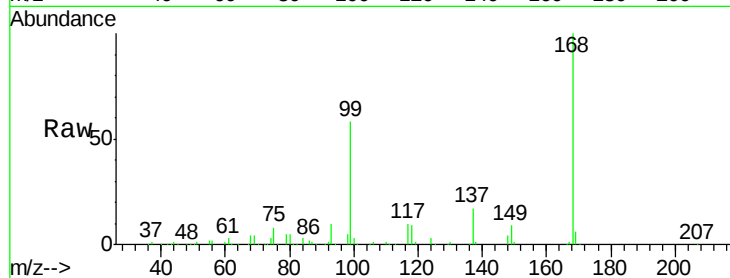
PB133266ZHE#05

Tot Ion:168 Resp: 297689

Ion Ratio Lower Upper

168 100

99 58.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

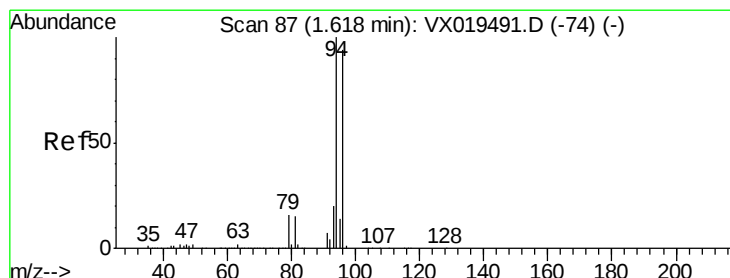
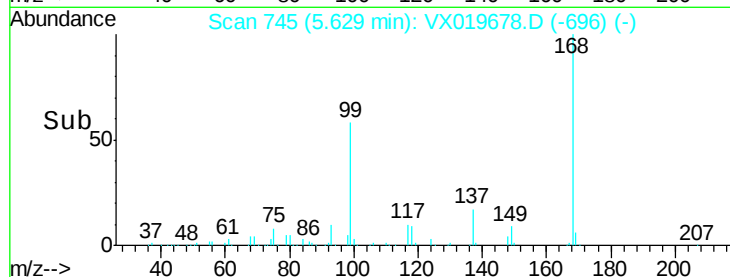
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.226 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019678.D

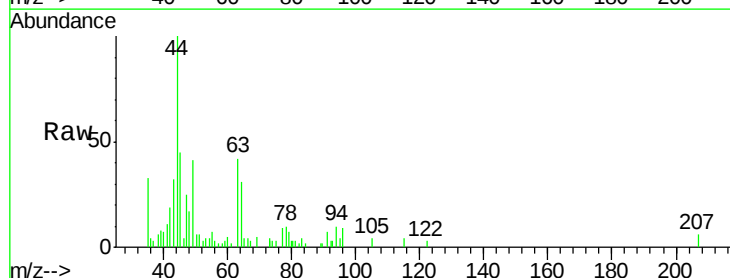
Acq: 30 Nov 2020 14:23

Tgt Ion: 94 Resp: 306

Ion Ratio Lower Upper

94 100

96 73.6 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

250

200

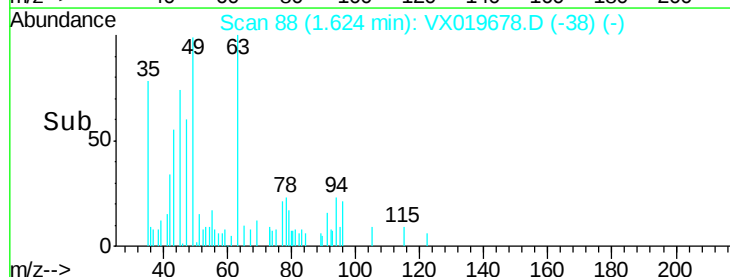
150

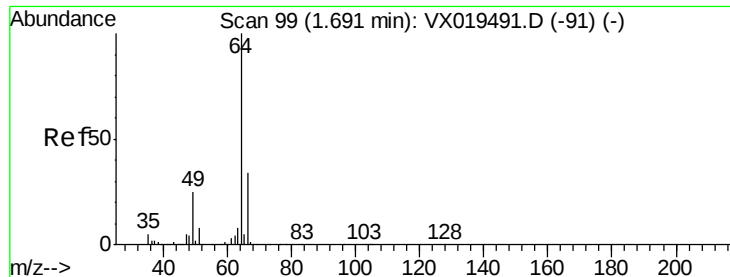
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 96

Delta R.T. -0.02 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

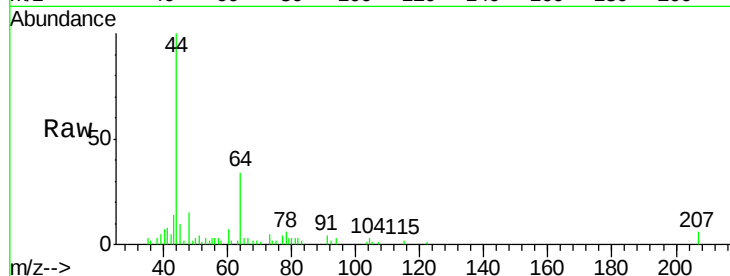
PB133266ZHE#05

Tot Ion: 64 Resp: 1055

Ion Ratio Lower Upper

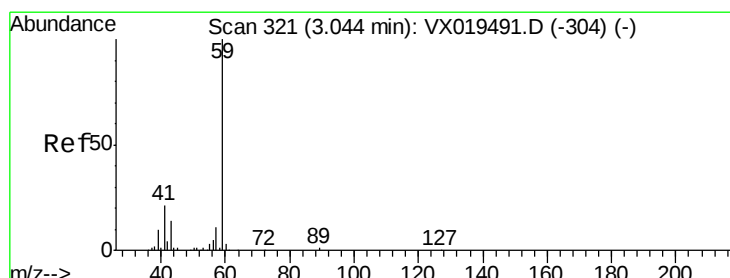
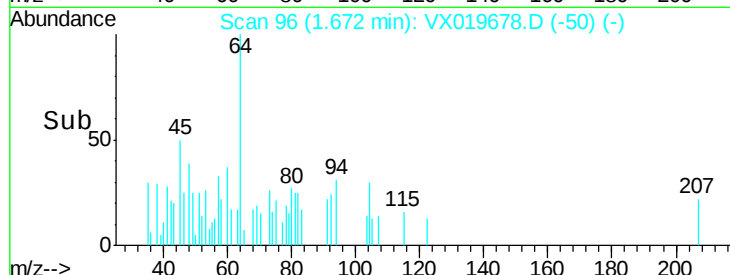
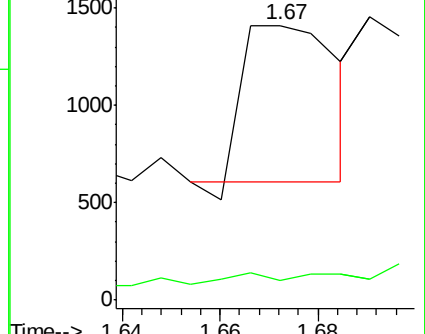
64 100

66 3.0 27.1 40.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 19.939 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.06 min

Lab File: VX019678.D

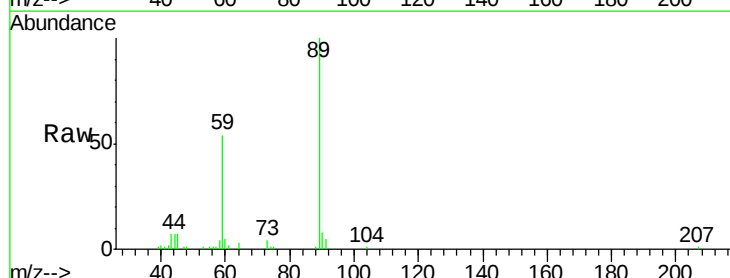
Acq: 30 Nov 2020 14:23

Tgt Ion: 59 Resp: 14565

Ion Ratio Lower Upper

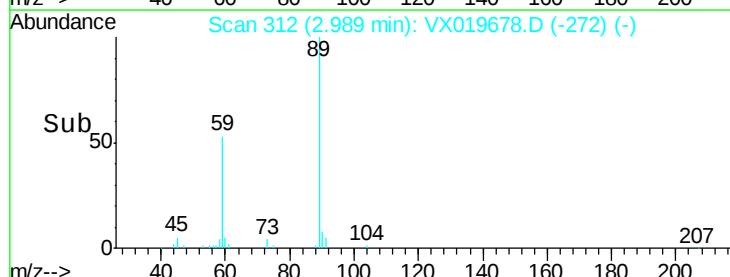
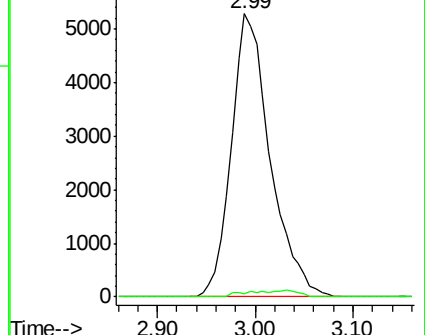
59 100

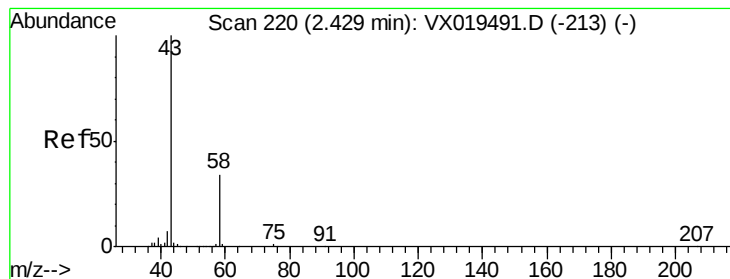
57 1.5 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 7.699 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

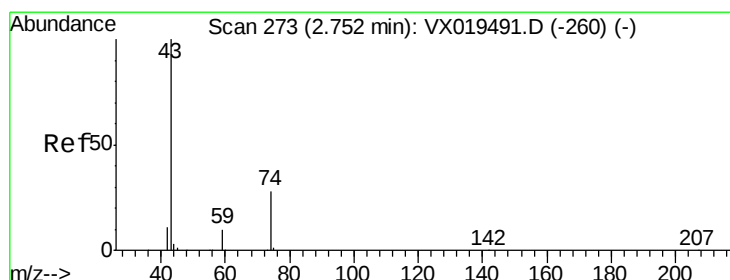
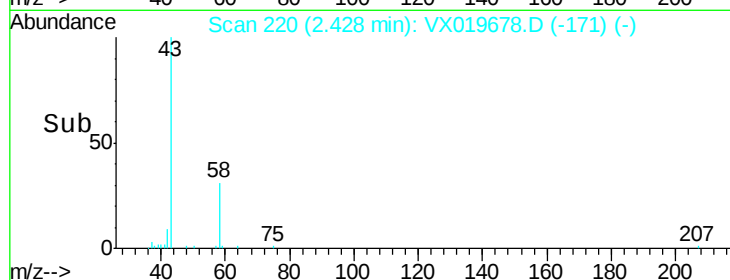
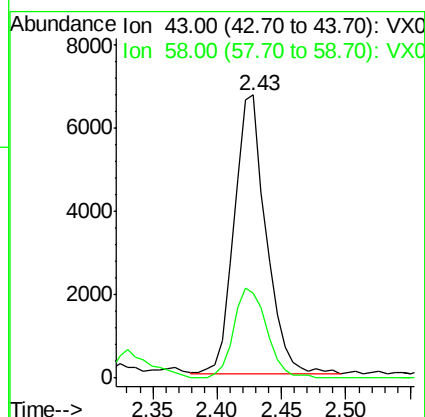
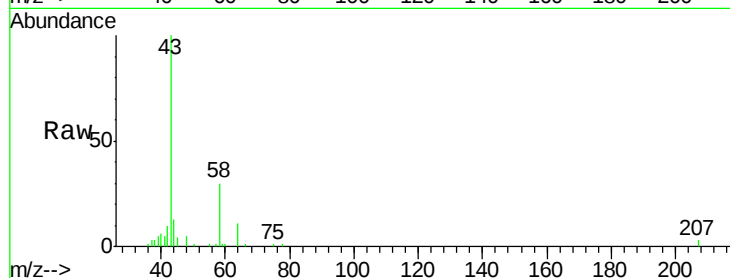
PB133266ZHE#05

Tot Ion: 43 Resp: 11492

Ion Ratio Lower Upper

43 100

58 30.4 27.4 41.2



#18

Methyl Acetate

Concen: 1.572 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX019678.D

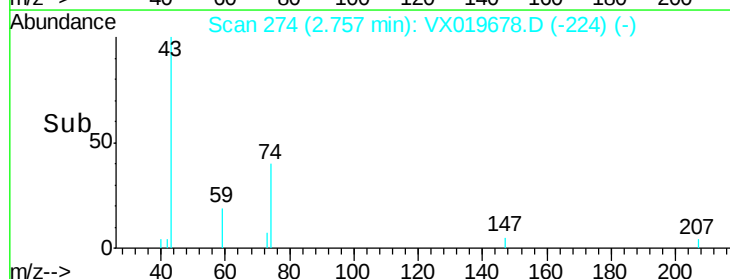
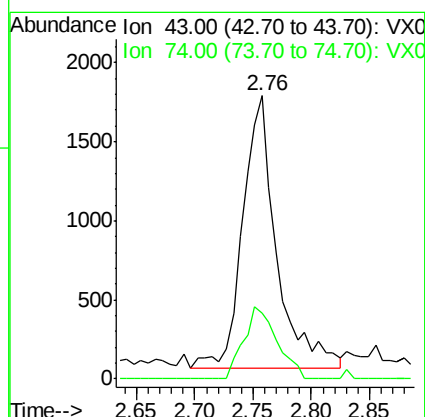
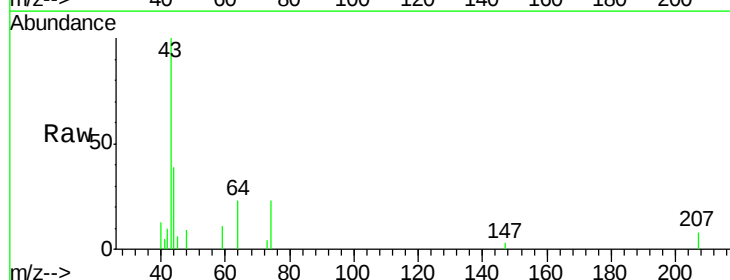
Acq: 30 Nov 2020 14:23

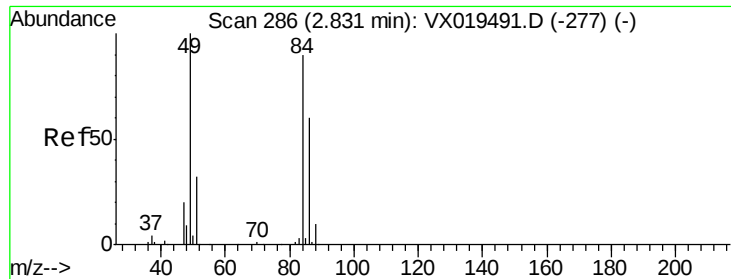
Tgt Ion: 43 Resp: 3477

Ion Ratio Lower Upper

43 100

74 25.9 22.2 33.4



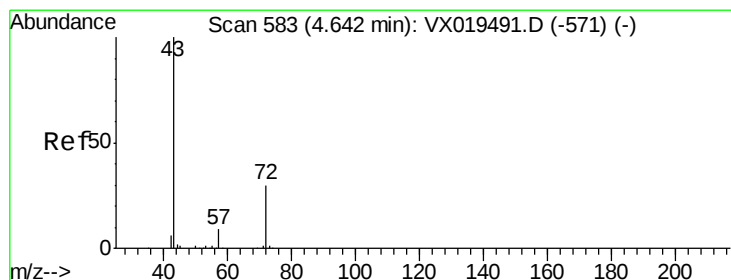
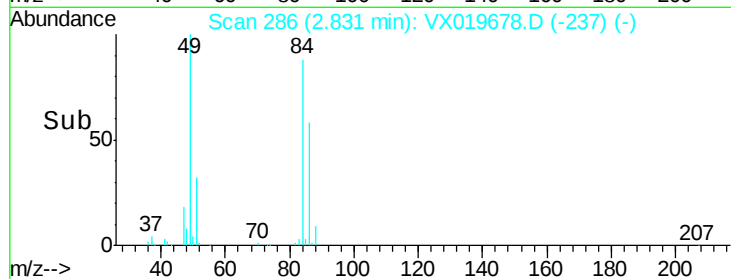
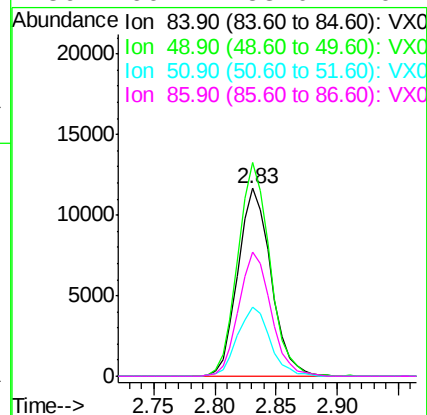
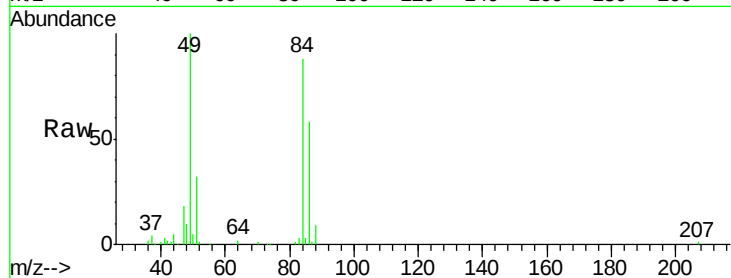


#20
Methvlene Chloride
Concen: 5.884 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019678.D
Acq: 30 Nov 2020 14:23

Instrument :
MSVOA_X
ClientSampleId :
PB133266ZHE#05

Tot Ion: 84 Resp: 21952

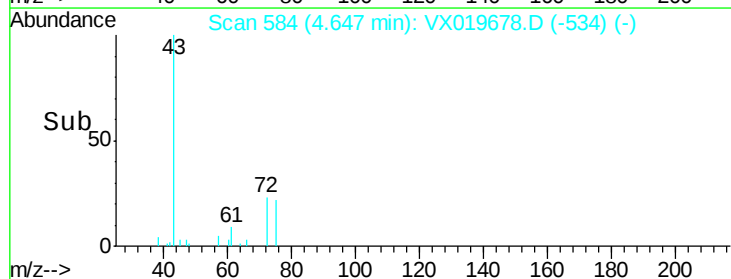
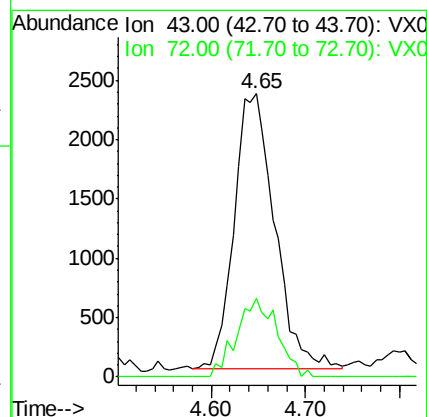
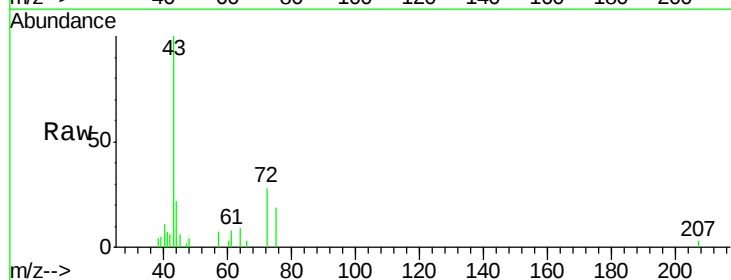
Ion	Ratio	Lower	Upper
84	100		
49	113.7	88.5	132.7
51	36.6	28.0	42.0
86	66.4	53.0	79.4

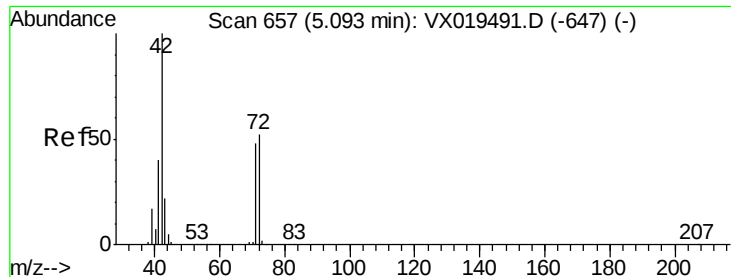


#25
2-Butanone
Concen: 3.084 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX019678.D
Acq: 30 Nov 2020 14:23

Tgt Ion: 43 Resp: 6915

Ion	Ratio	Lower	Upper
43	100		
72	28.6	24.0	36.0

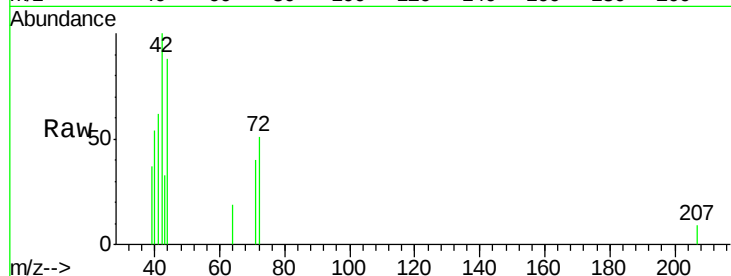




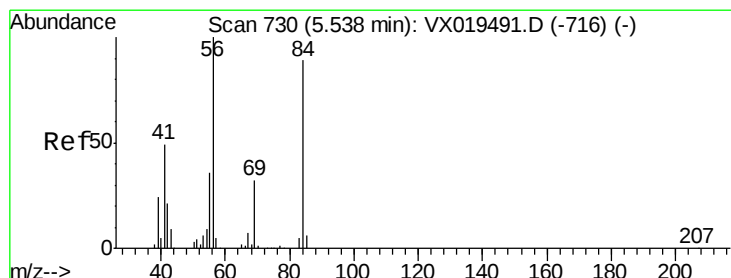
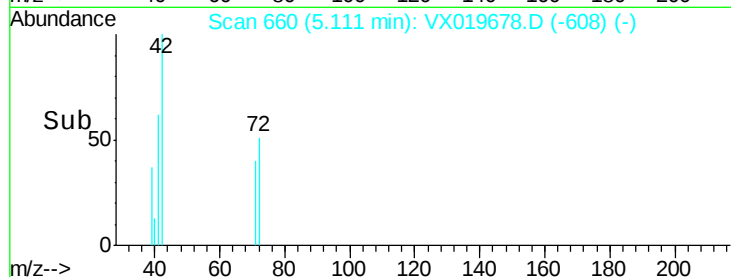
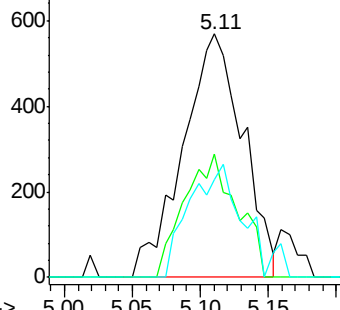
#29
Tetrahydrofuran
Concen: 1.224 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX019678.D
Acq: 30 Nov 2020 14:23

Instrument :
MSVOA_X
ClientSampleId :
PB133266ZHE#05

Tot Ion: 42 Resp: 1751
Ion Ratio Lower Upper
42 100
72 44.6 42.6 63.8
71 42.5 39.0 58.6

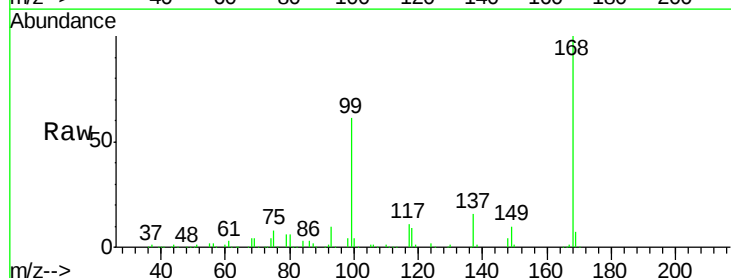


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

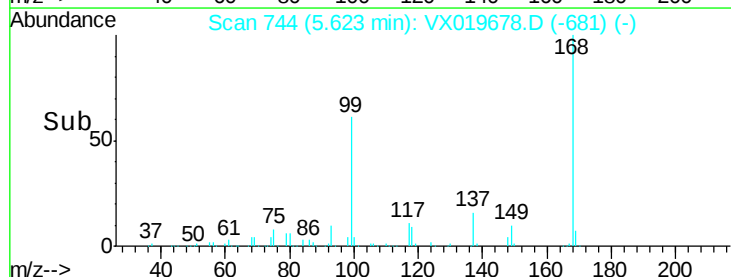
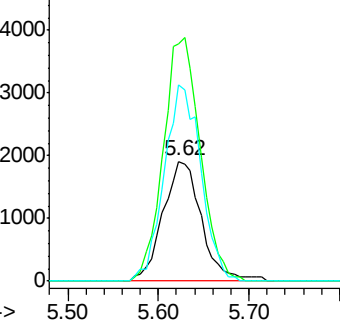


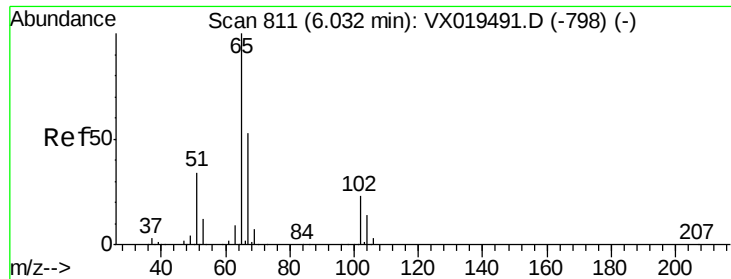
#31
Cyclohexane
Concen: 1.122 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.09 min
Lab File: VX019678.D
Acq: 30 Nov 2020 14:23

Tgt Ion: 56 Resp: 5634
Ion Ratio Lower Upper
56 100
69 198.2 25.5 38.3#
84 163.7 71.1 106.7#



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

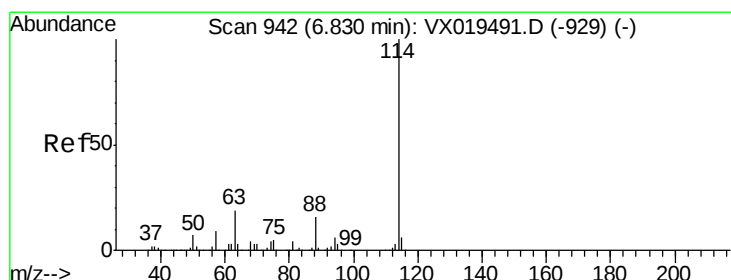
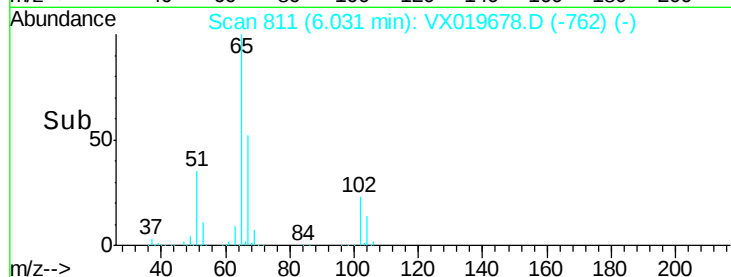
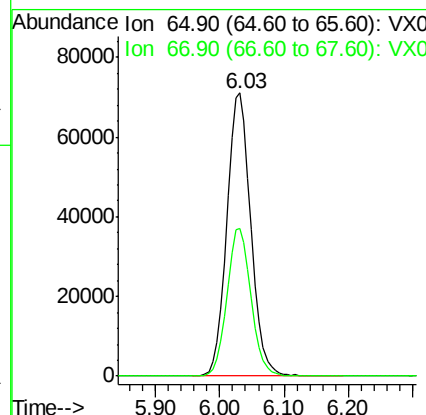
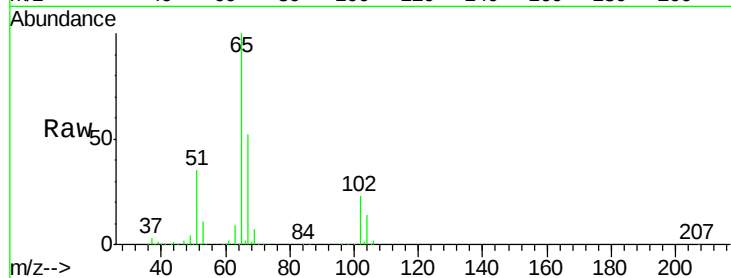




#33
 1,2-Dichloroethane-d4
 Concen: 48.315 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019678.D
 Acq: 30 Nov 2020 14:23

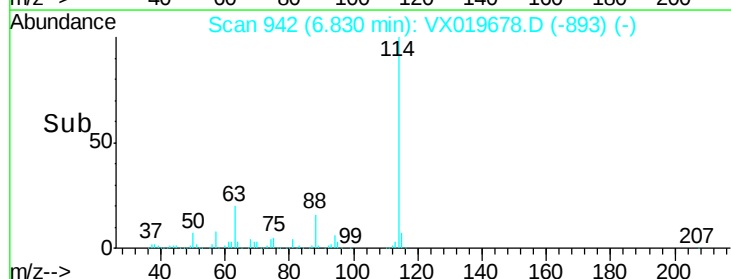
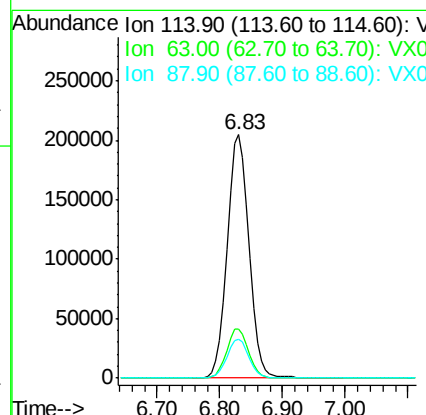
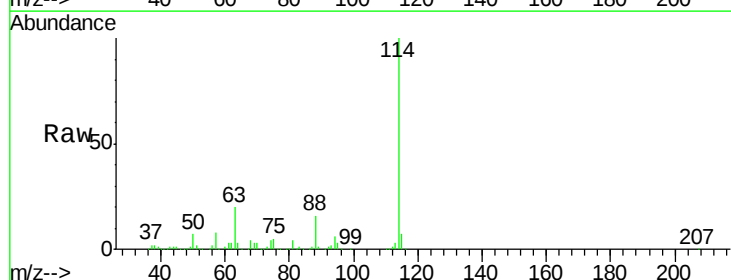
Instrument :
 MSVOA_X
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 PB133266ZHE#05

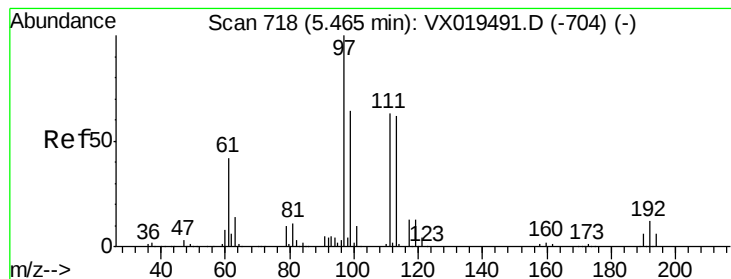
Tot Ion: 65 Resp: 186485
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019678.D
 Acq: 30 Nov 2020 14:23

Tgt Ion: 114 Resp: 491534
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 38.8
 88 16.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.106 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

PB133266ZHE#05

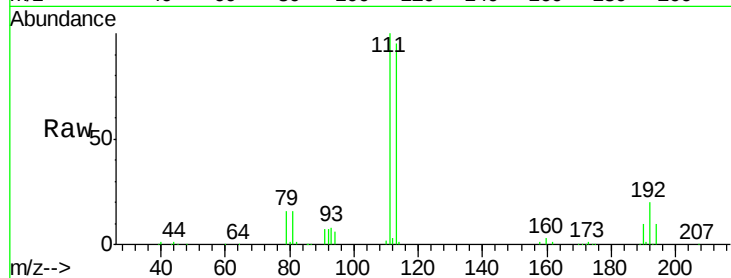
Tot Ion:113 Resp: 151511

Ion Ratio Lower Upper

113 100

111 102.3 81.5 122.3

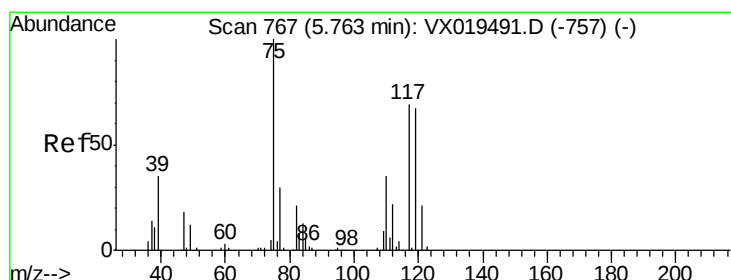
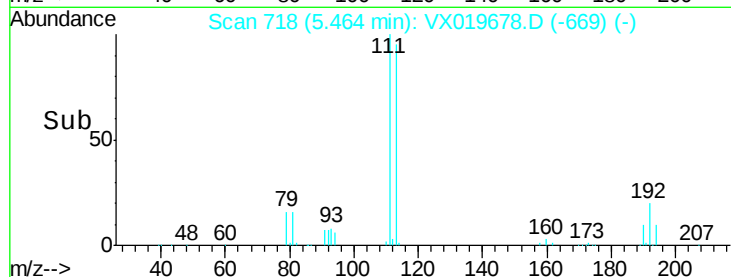
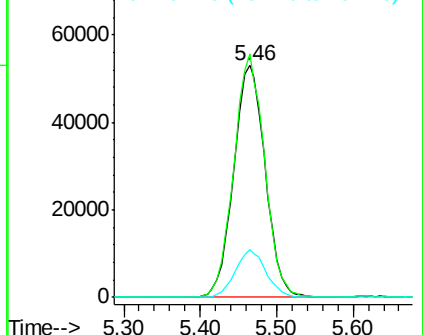
192 20.0 16.2 24.2



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: 4.879 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

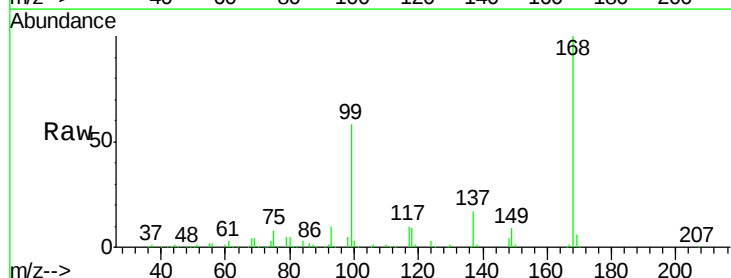
Tgt Ion: 75 Resp: 22481

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.3#

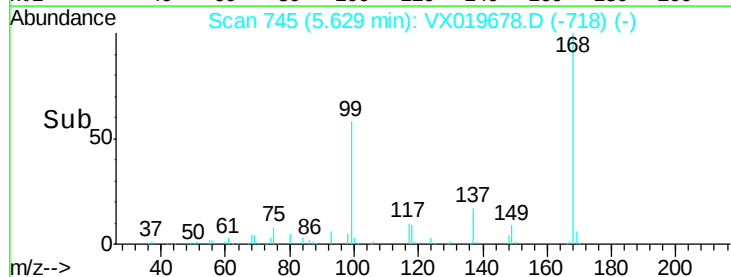
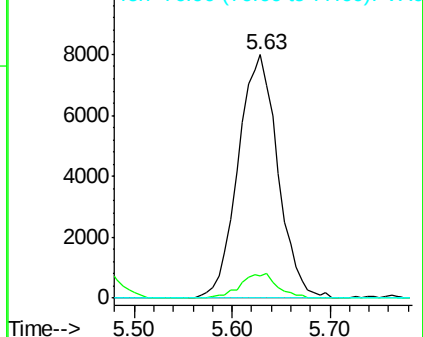
77 0.0 24.2 36.4#

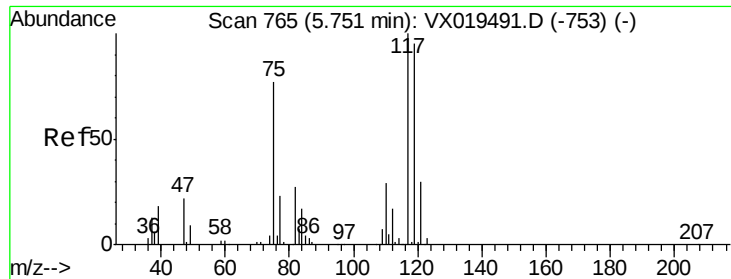


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.636 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

PB133266ZHE#05

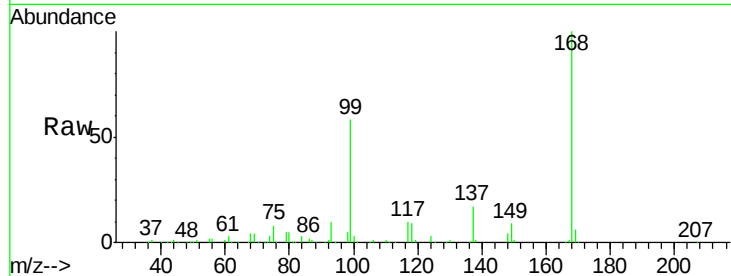
Tot Ion:117 Resp: 29598

Ion Ratio Lower Upper

117 100

119 5.8 75.9 113.9#

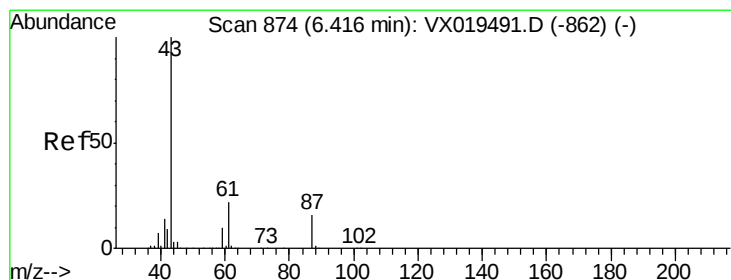
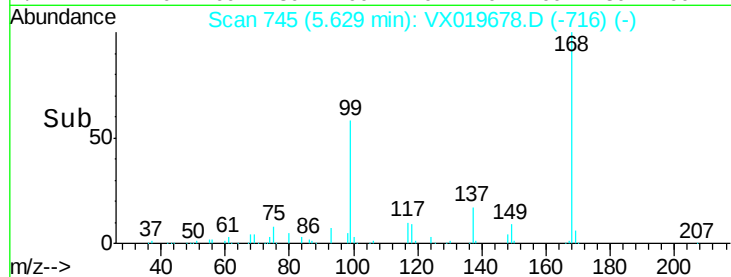
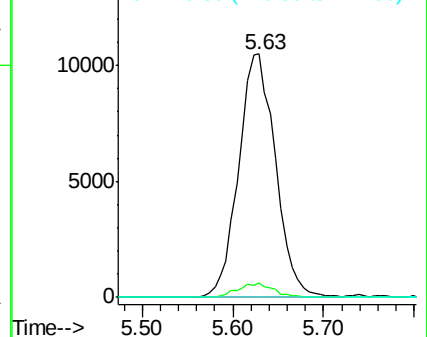
121 0.0 24.0 36.0#



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: 5.693 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

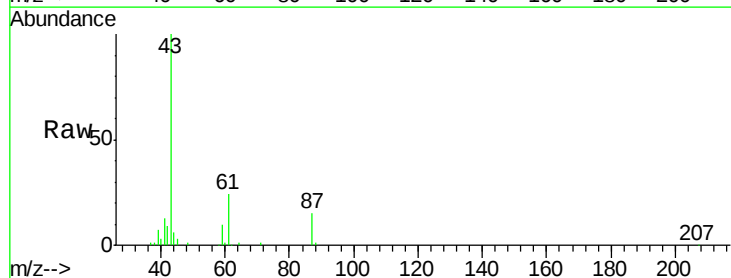
Tgt Ion: 43 Resp: 41397

Ion Ratio Lower Upper

43 100

61 22.8 18.2 27.2

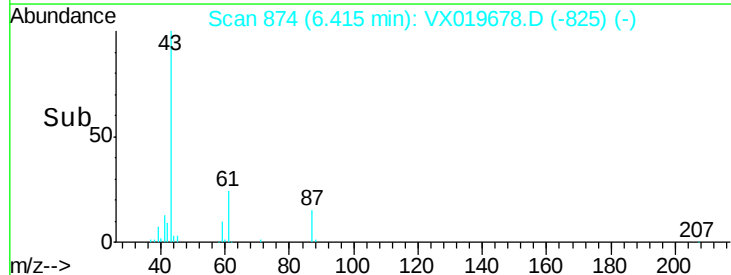
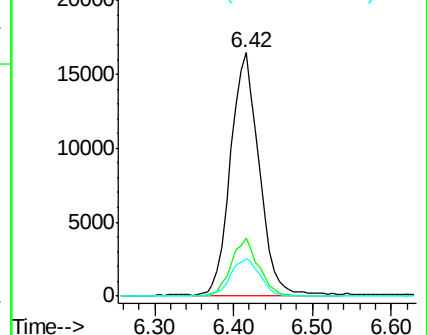
87 15.6 12.6 18.8

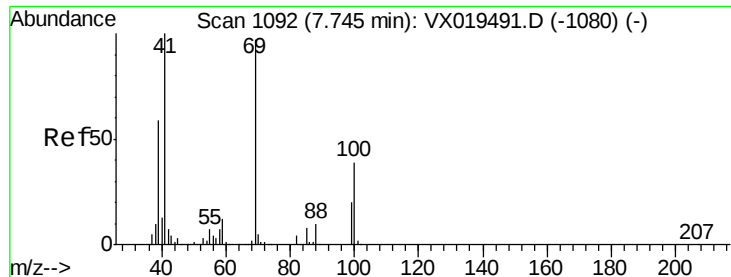


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

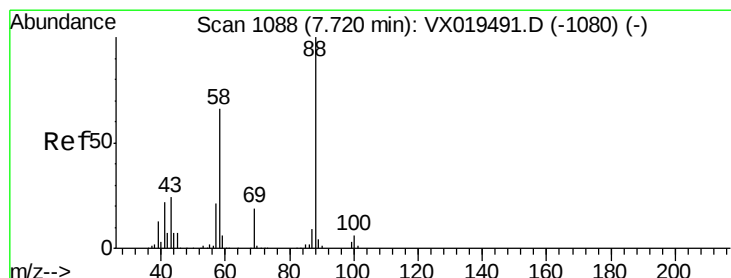
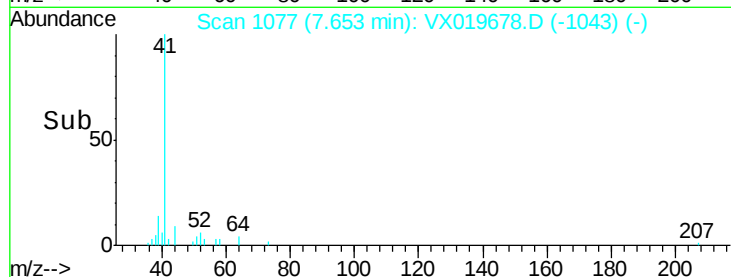
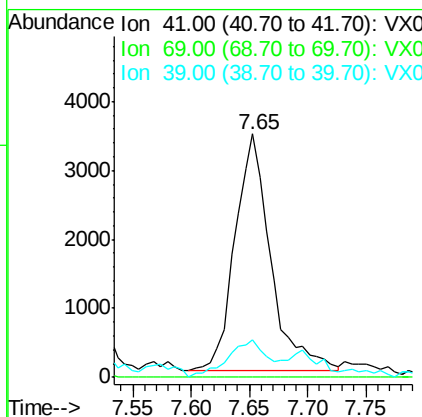
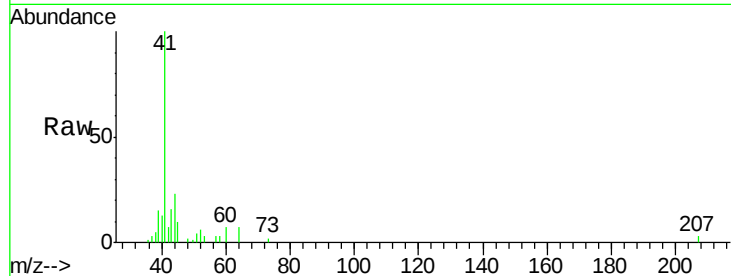




#48
Methvl methacrylate
Concen: 2.143 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX019678.D
Acq: 30 Nov 2020 14:23

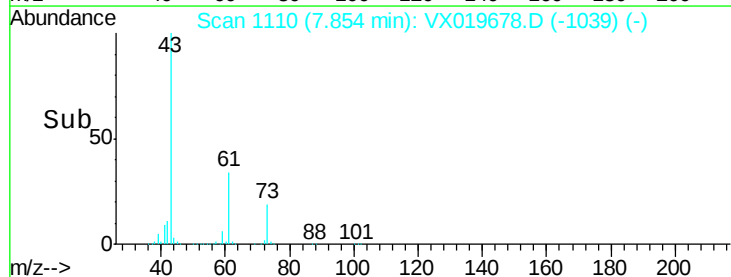
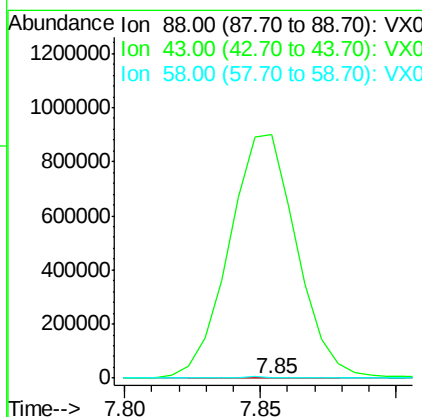
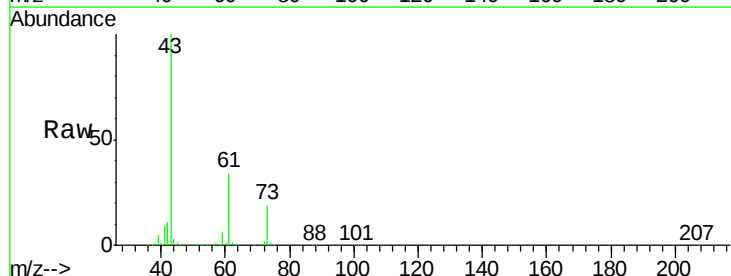
Instrument :
MSVOA_X
ClientSampleId :
PB133266ZHE#05

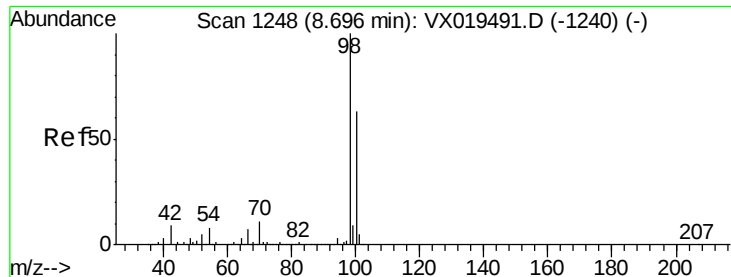
Tot Ion: 41 Resp: 7299
Ion Ratio Lower Upper
41 100
69 0.0 77.0 115.6#
39 0.0 45.6 68.4#



#49
1,4-Dioxane
Concen: 3.065 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.13 min
Lab File: VX019678.D
Acq: 30 Nov 2020 14:23

Tgt Ion: 88 Resp: 237
Ion Ratio Lower Upper
88 100
43 660489.0 23.8 35.6#
58 3216.9 54.2 81.2#

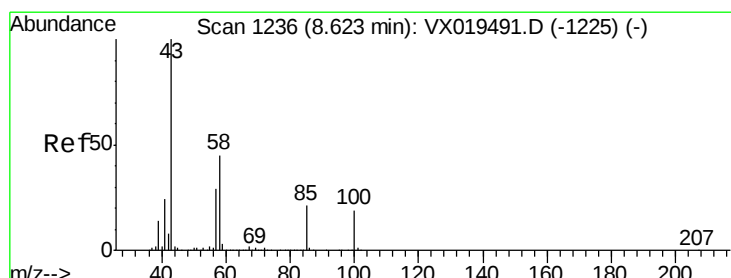
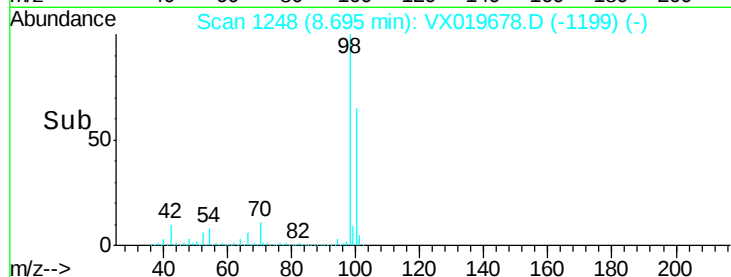
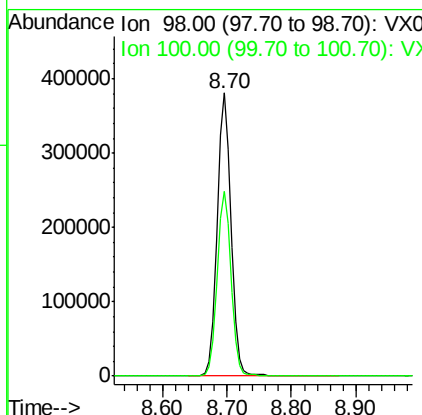
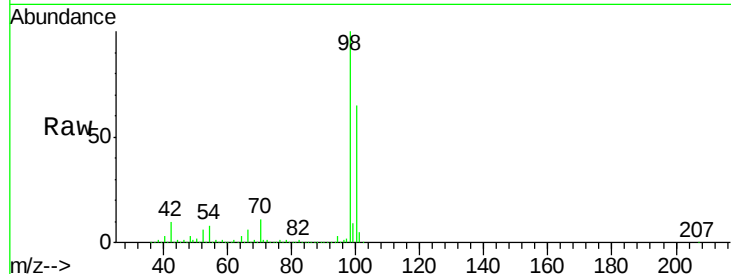




#50
Toluene-d8
Concen: 48.452 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019678.D
Acq: 30 Nov 2020 14:23

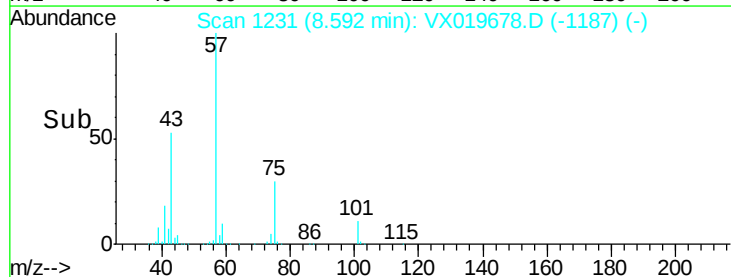
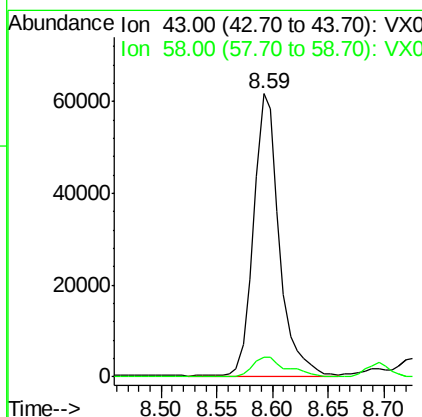
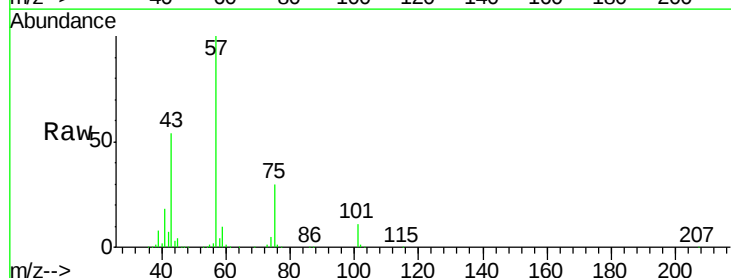
Instrument :
MSVOA_X
ClientSampleId :
PB133266ZHE#05

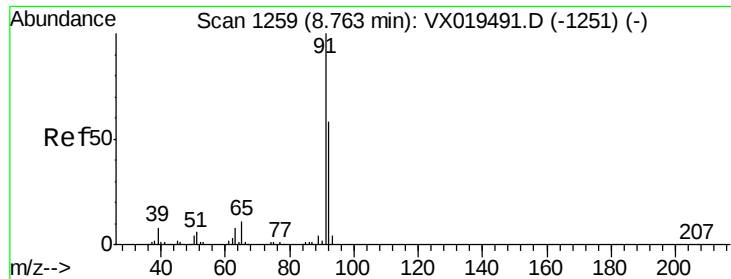
Tot Ion: 98 Resp: 580913
Ion Ratio Lower Upper
98 100
100 65.8 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 23.277 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX019678.D
Acq: 30 Nov 2020 14:23

Tgt Ion: 43 Resp: 98707
Ion Ratio Lower Upper
43 100
58 9.6 35.1 52.7#





#52

Toluene

Concen: 0.353 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

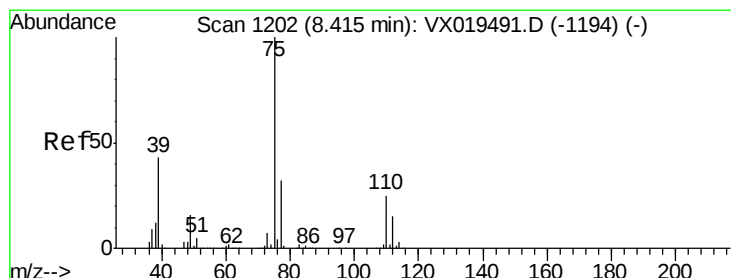
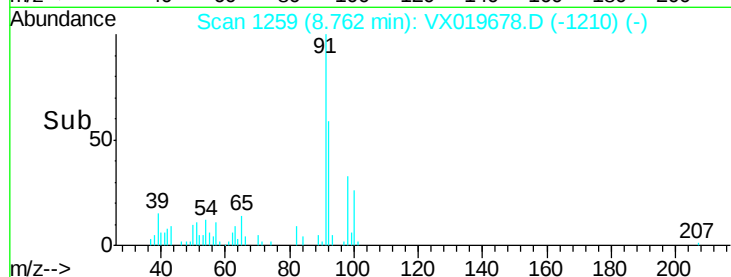
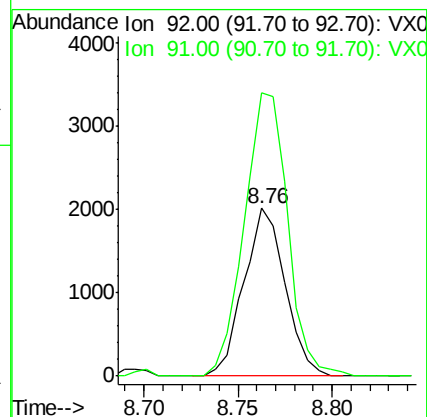
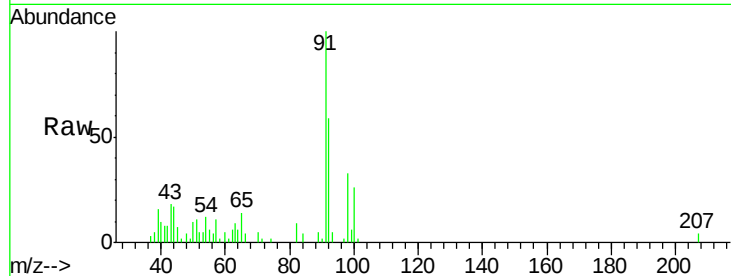
PB133266ZHE#05

Tot Ion: 92 Resp: 3055

Ion Ratio Lower Upper

92 100

91 177.7 138.1 207.1



#54

cis-1,3-Dichloropropene

Concen: 9.628 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

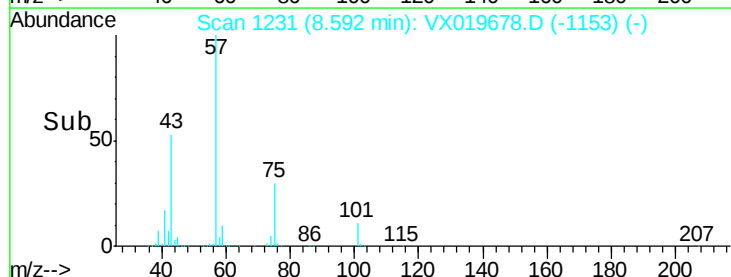
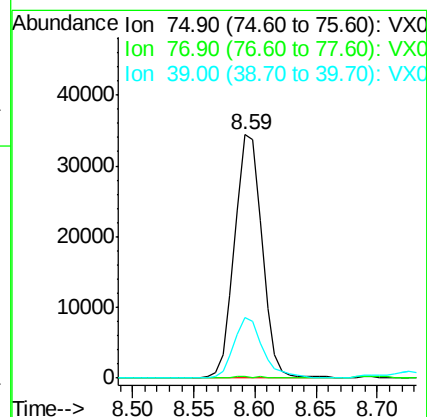
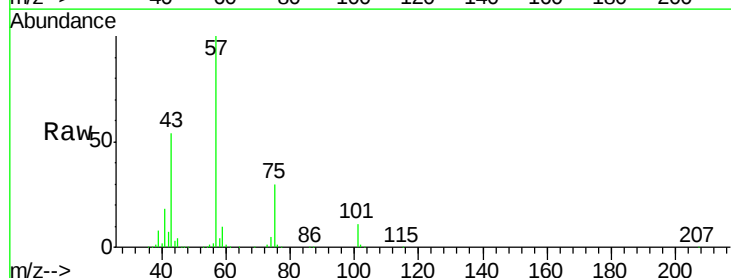
Tgt Ion: 75 Resp: 53418

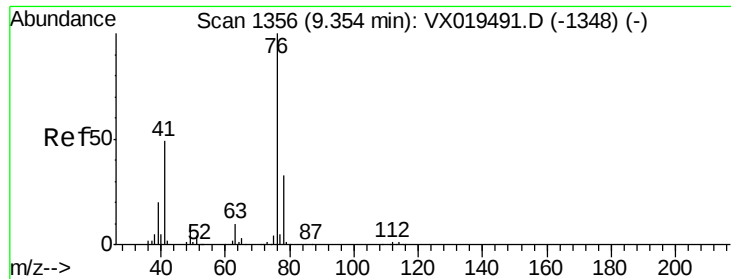
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 24.9 34.6 51.8#

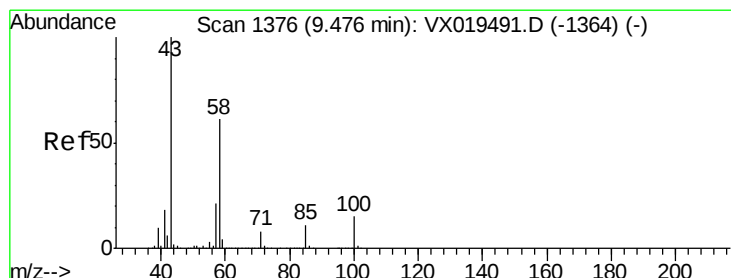
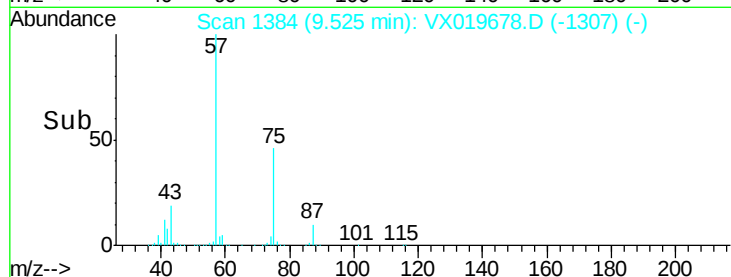
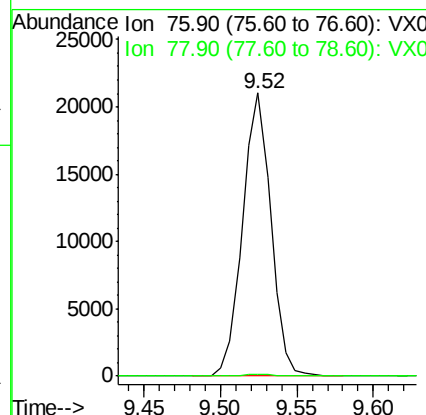
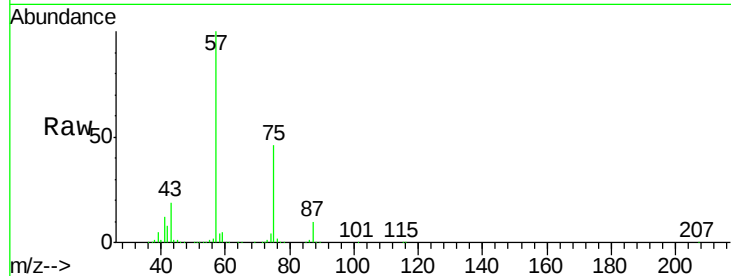




#57
 1,3-Dichloropropane
 Concen: 4.581 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX019678.D
 Acq: 30 Nov 2020 14:23

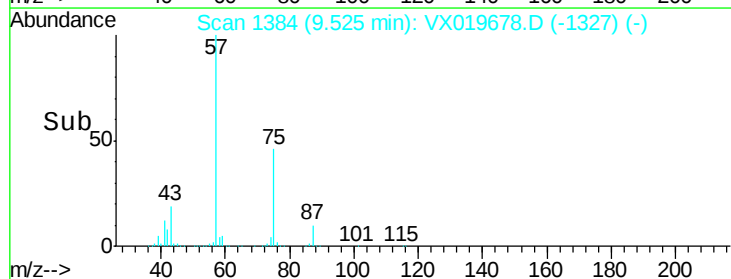
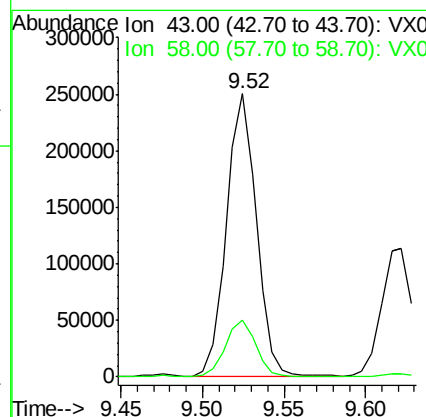
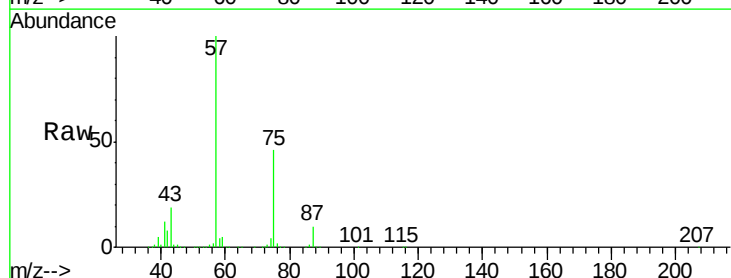
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133266ZHE#05

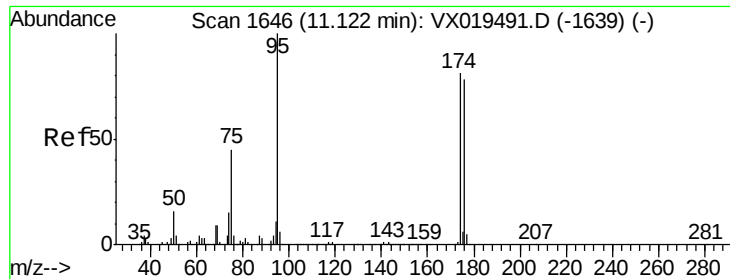
Tot Ion: 76 Resp: 27054
 Ion Ratio Lower Upper
 76 100
 78 0.6 25.7 38.5#



#59
 2-Hexanone
 Concen: 98.466 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX019678.D
 Acq: 30 Nov 2020 14:23

Tgt Ion: 43 Resp: 316684
 Ion Ratio Lower Upper
 43 100
 58 20.8 30.6 91.6#





#62

4-Bromofluorobenzene

Concen: 45.757 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

PB133266ZHE#05

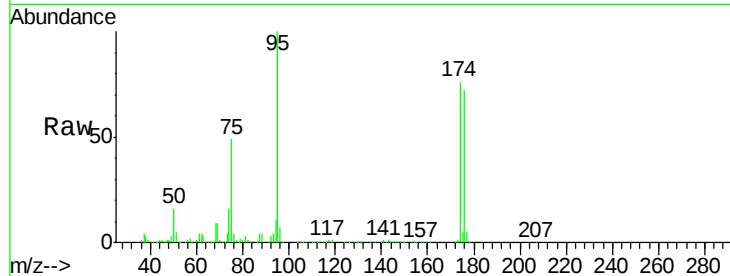
Tot Ion: 95 Resp: 197377

Ion Ratio Lower Upper

95 100

174 76.2 0.0 156.2

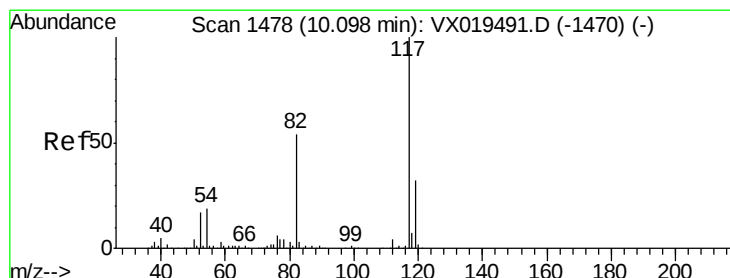
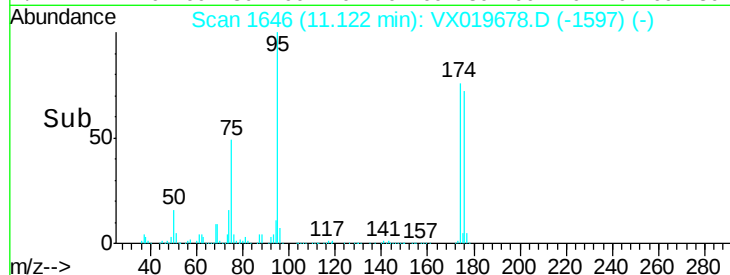
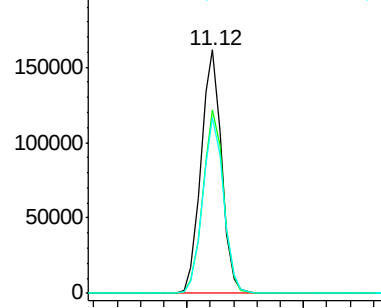
176 73.8 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

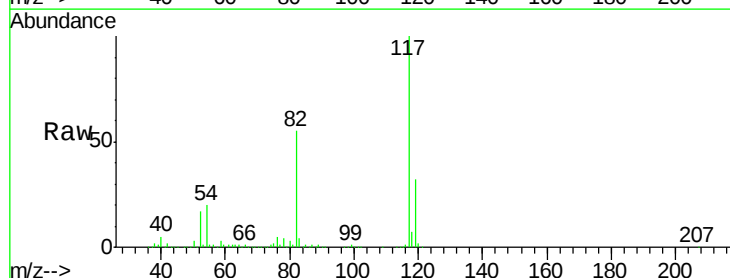
Tgt Ion: 117 Resp: 427499

Ion Ratio Lower Upper

117 100

82 54.9 43.0 64.4

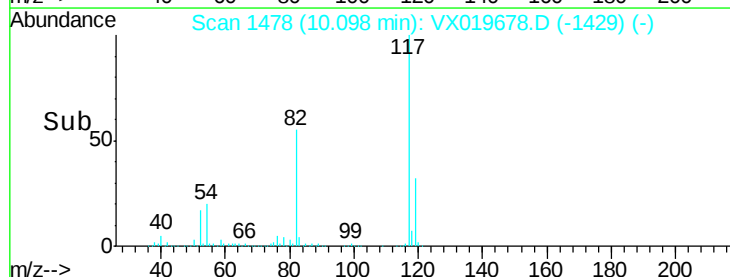
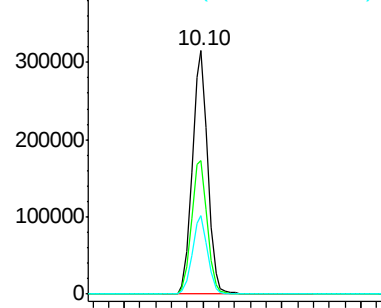
119 32.0 25.6 38.4

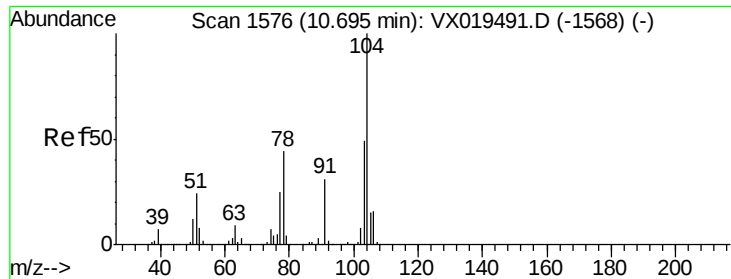


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0

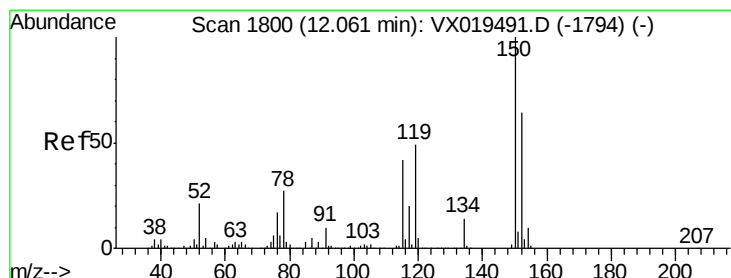
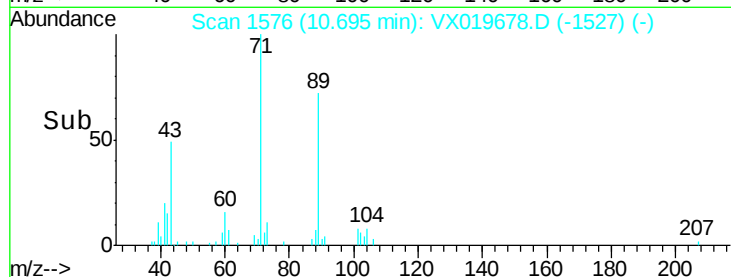
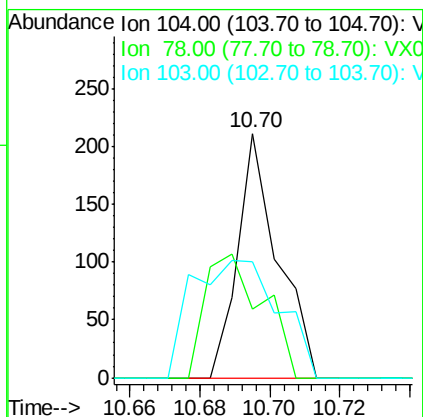
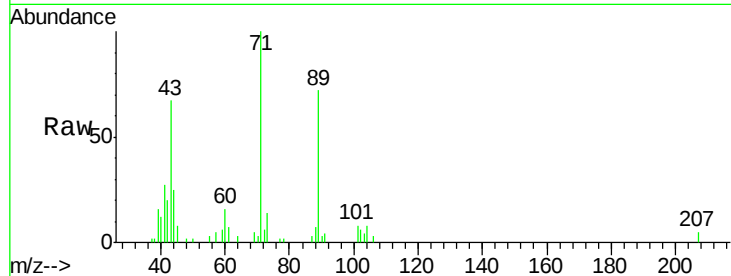




#70
Stvrene
Concen: 1.662 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019678.D
Acq: 30 Nov 2020 14:23

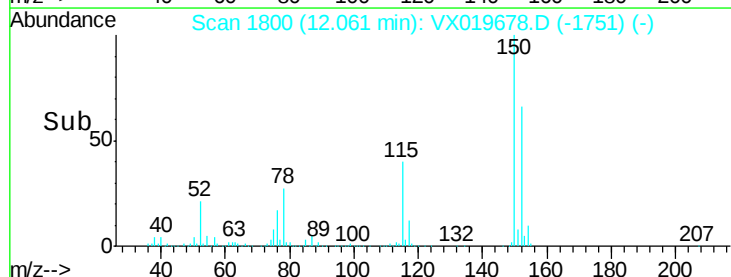
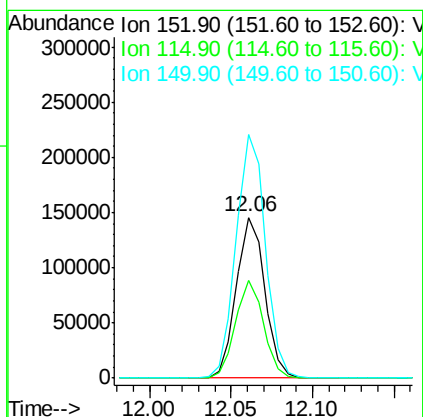
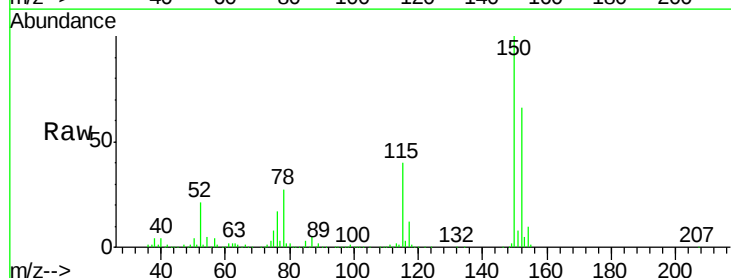
Instrument :
MSVOA_X
ClientSampleId :
PB133266ZHE#05

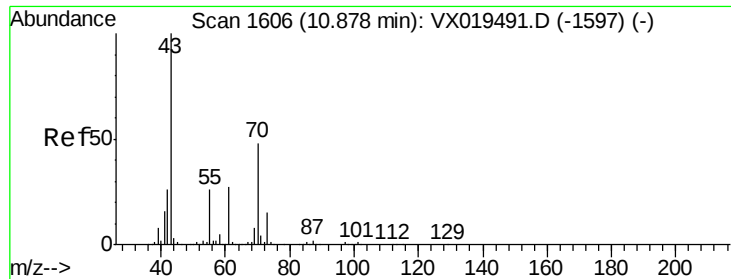
Tot Ion:104 Resp: 168
Ion Ratio Lower Upper
104 100
78 72.6 39.5 59.3#
103 105.4 43.6 65.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019678.D
Acq: 30 Nov 2020 14:23

Tgt Ion:152 Resp: 177774
Ion Ratio Lower Upper
152 100
115 59.9 41.8 125.4
150 155.4 0.0 348.2





#74

N-amvl acetate

Concen: 0.460 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

PB133266ZHE#05

Tot Ion: 43 Resp: 2120

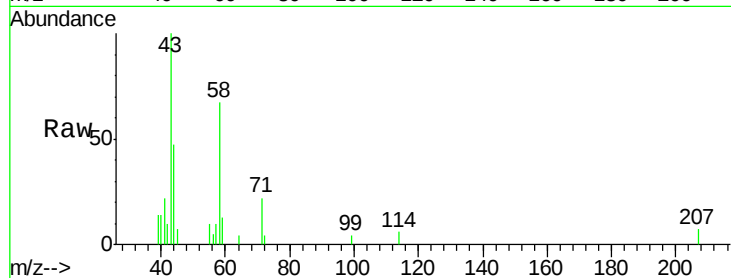
Ion Ratio Lower Upper

43 100

70 0.0 39.7 59.5#

55 11.6 21.8 32.6#

61 0.0 22.2 33.4#

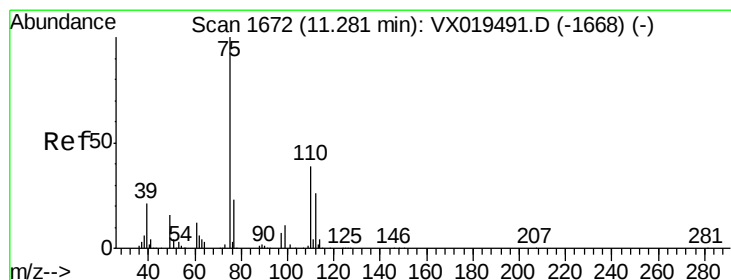
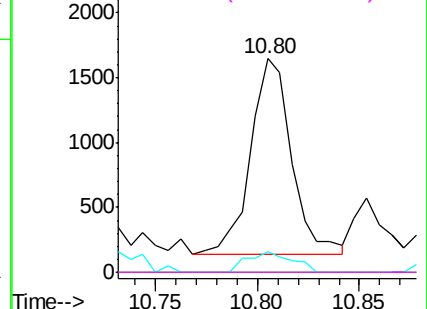
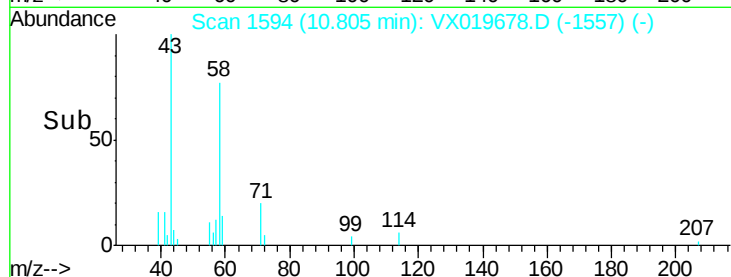


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.598 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019678.D

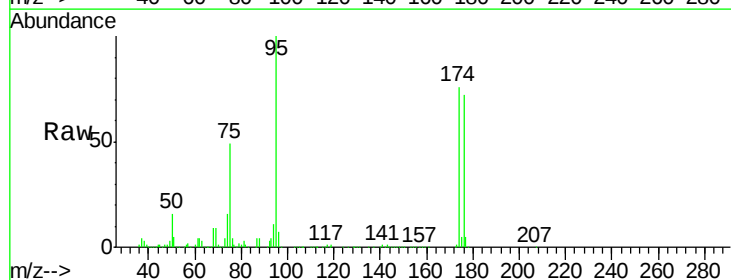
Acq: 30 Nov 2020 14:23

Tgt Ion: 75 Resp: 95431

Ion Ratio Lower Upper

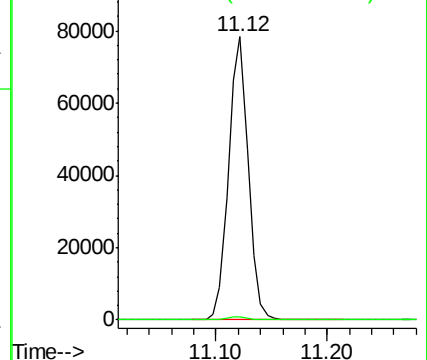
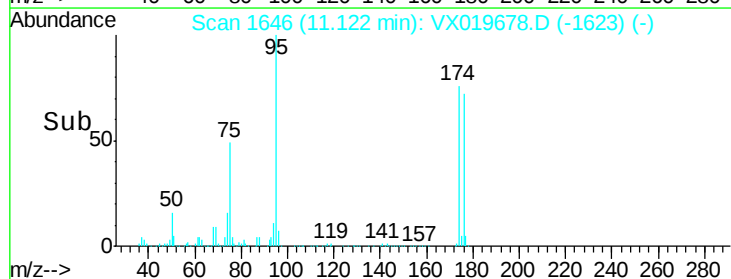
75 100

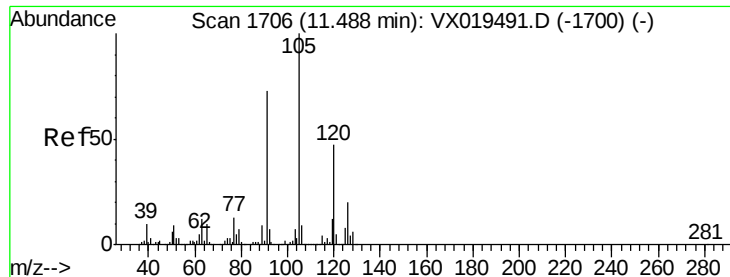
77 1.2 20.0 60.0#



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: 0.337 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

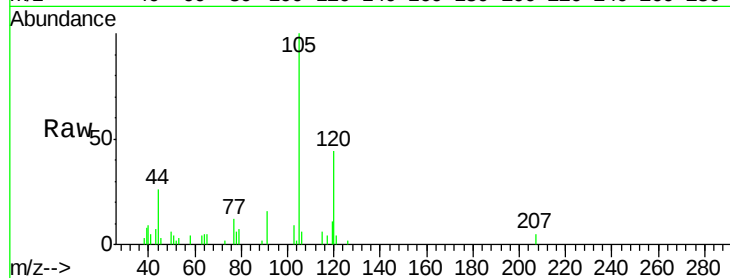
PB133266ZHE#05

Tot Ion:105 Resp: 3480

Ion Ratio Lower Upper

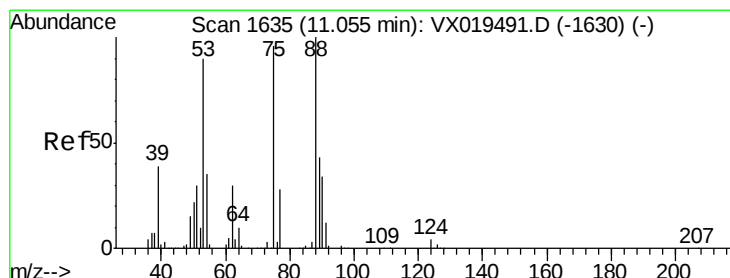
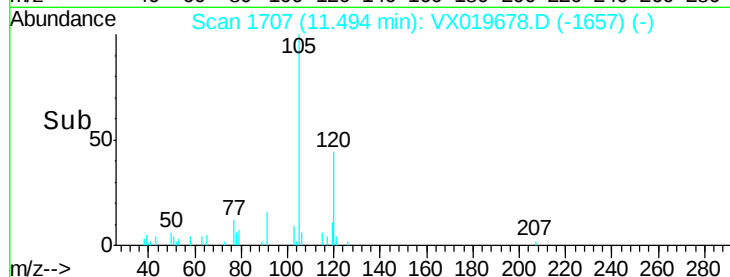
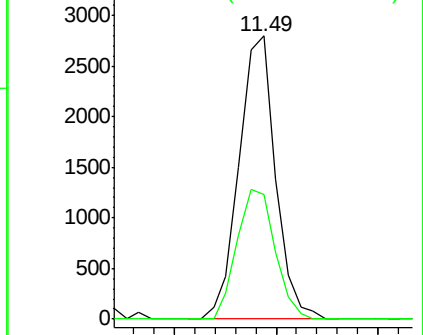
105 100

120 47.7 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 65.046 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019678.D

Acq: 30 Nov 2020 14:23

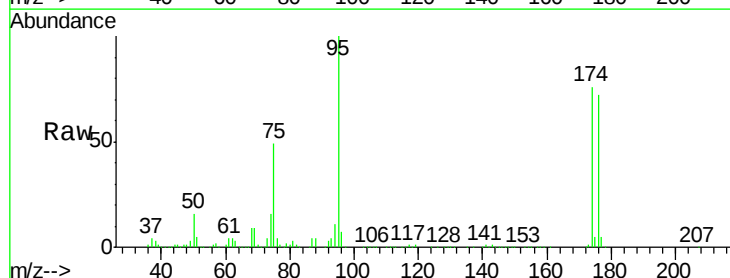
Tgt Ion: 75 Resp: 95431

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

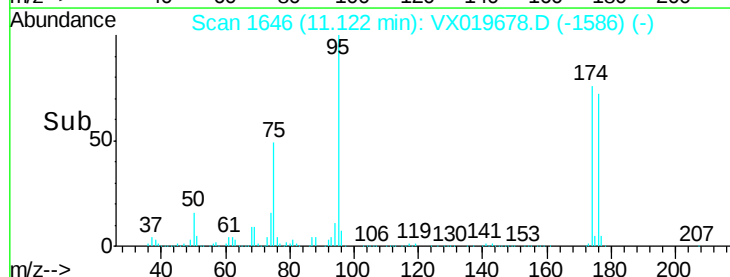
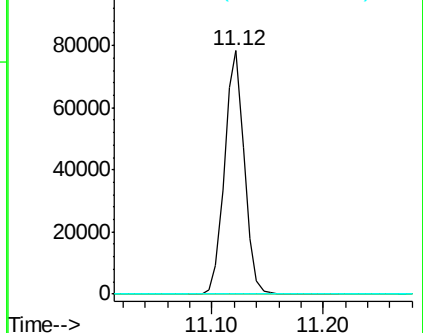
89 0.0 37.3 55.9#

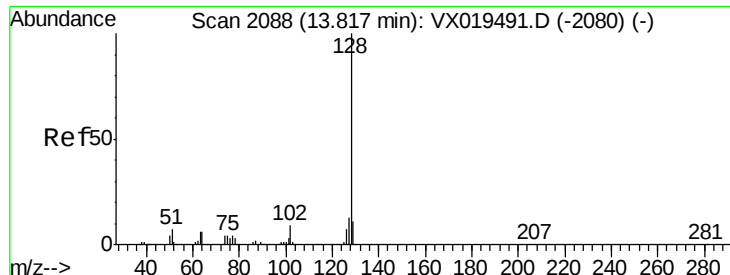


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 2.201 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019678.D

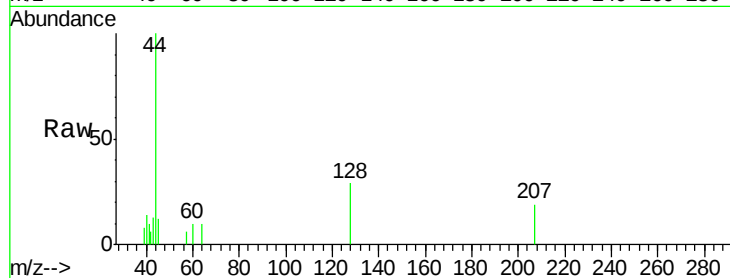
Acq: 30 Nov 2020 14:23

Instrument :

MSVOA_X

ClientSampleId :

PB133266ZHE#05



Tot Ion:	128	Resp:	319
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.7	13.1#

