

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\
 Data File : VX016015.D
 Acq On : 01 May 2020 16:39
 Operator : JC/SP
 Sample : L2469-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-MW128I-20200428

Quant Time: May 02 07:00:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042820W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 28 17:30:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	275099	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	449845	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	439309	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	229715	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	177370	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
35) Dibromofluoromethane	5.47	113	135211	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
50) Toluene-d8	8.70	98	552174	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
62) 4-Bromofluorobenzene	11.12	95	220269	53.53	ug/l	0.00
Spiked Amount			Recovery	=	107.06%	

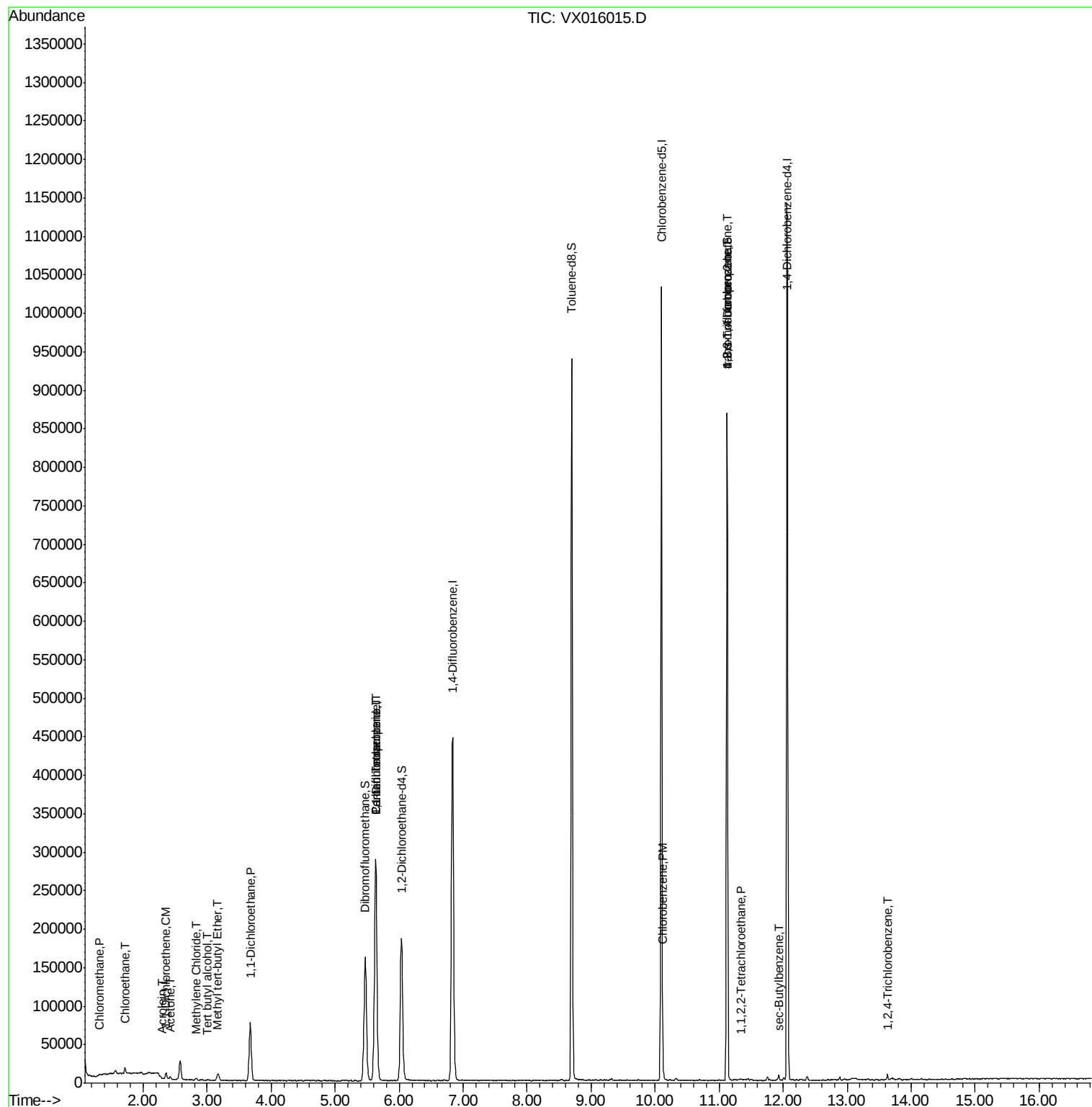
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	725	0.243	ug/l #	71
6) Chloroethane	1.72	64	4512	2.002	ug/l	99
11) Tert butyl alcohol	3.00	59	676	0.774	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	2289	0.870	ug/l	86
13) Acrolein	2.30	56	101	0.460	ug/l	83
16) Acetone	2.42	43	3553	2.310	ug/l	98
19) Methyl tert-butyl Ether	3.17	73	9756	1.025	ug/l	92
20) Methylene Chloride	2.84	84	683	0.224	ug/l #	74
24) 1,1-Dichloroethane	3.67	63	84667	16.289	ug/l	99
36) 1,1-Dichloropropene	5.64	75	21099	4.924	ug/l #	50
38) Carbon Tetrachloride	5.63	117	27304	6.033	ug/l #	17
65) Chlorobenzene	10.12	112	3662	0.409	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.34	83	20	3.706	ug/l #	25
76) 1,2,3-Trichloropropane	11.12	75	116716	24.214	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	116716	57.221	ug/l #	10
85) sec-Butylbenzene	11.93	105	3448	0.225	ug/l	87
93) 1,2,4-Trichlorobenzene	13.63	180	1525	0.290	ug/l	94

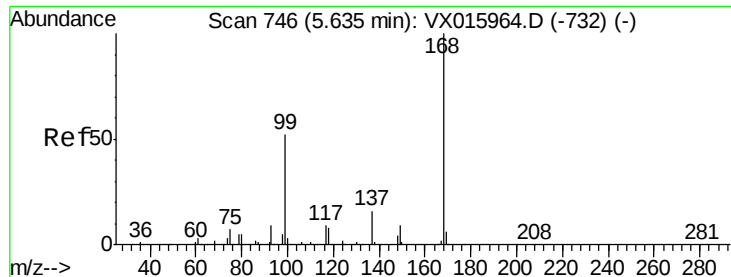
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

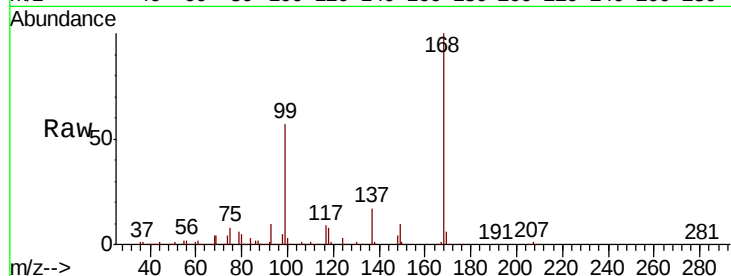
SA-MW128I-20200428

Tot Ion:168 Resp: 275099

Ion Ratio Lower Upper

168 100

99 57.0 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

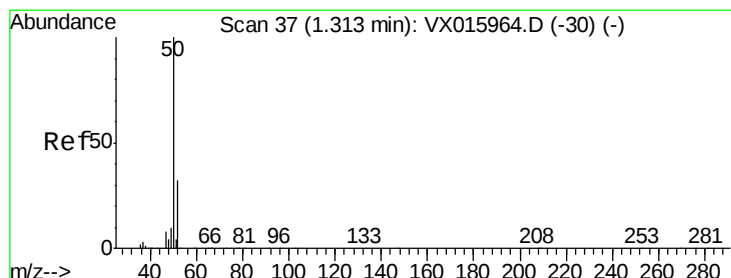
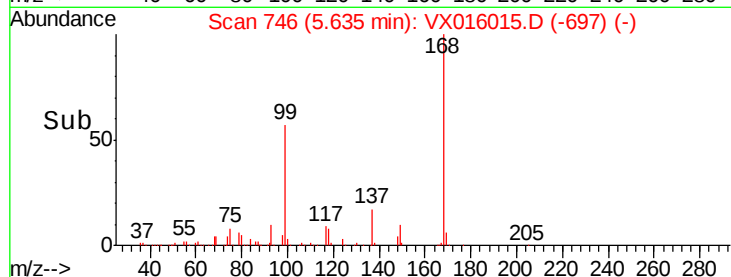
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.243 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016015.D

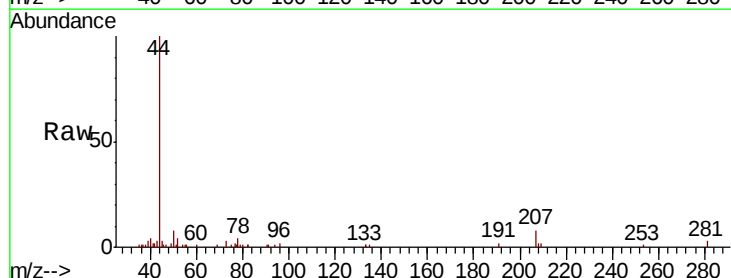
Acq: 01 May 2020 16:39

Tgt Ion: 50 Resp: 725

Ion Ratio Lower Upper

50 100

52 48.1 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

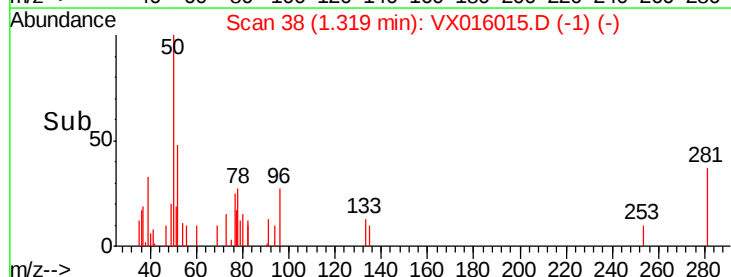
300

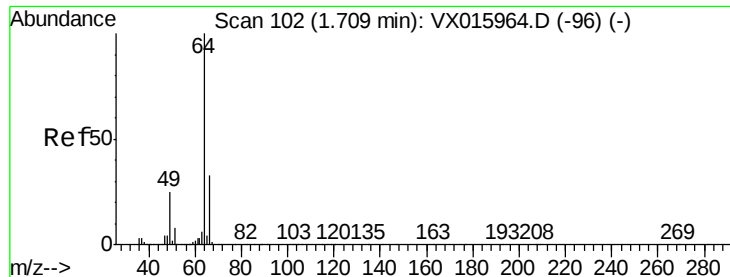
200

100

0

Time-->





#6

Chloroethane

Concen: 2.002 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

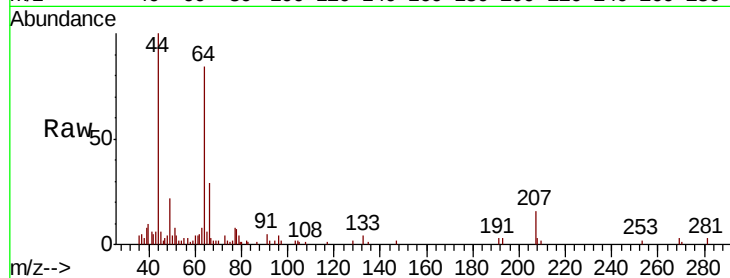
SA-MW128I-20200428

Tot Ion: 64 Resp: 4512

Ion Ratio Lower Upper

64 100

66 32.4 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

4000

3000

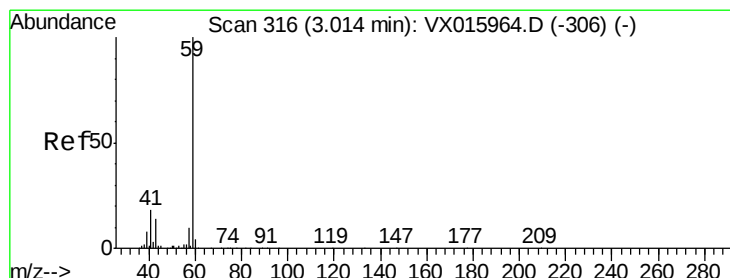
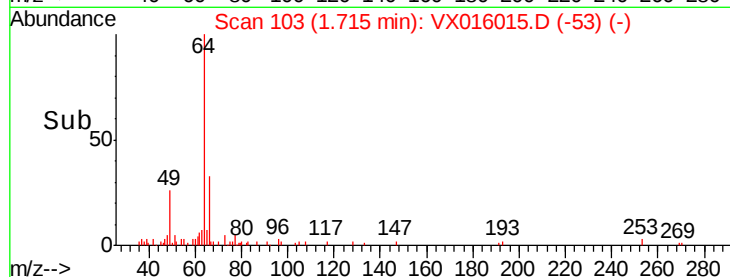
2000

1000

0

1.65 1.70 1.75 1.80

Time-->



#11

Tert butyl alcohol

Concen: 0.774 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX016015.D

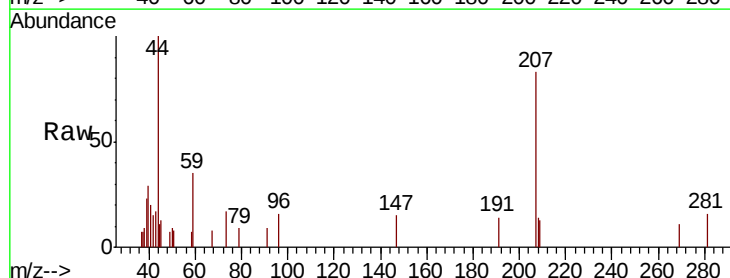
Acq: 01 May 2020 16:39

Tgt Ion: 59 Resp: 676

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

300

250

200

150

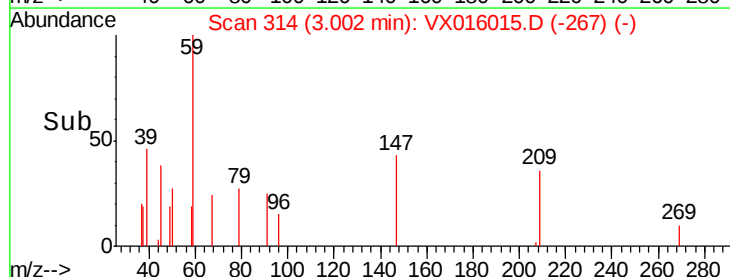
100

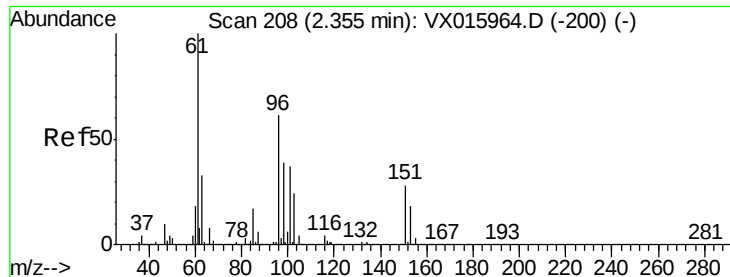
50

0

2.95 3.00 3.05

Time-->





#12

1,1-Dichloroethene

Concen: 0.870 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

SA-MW128I-20200428

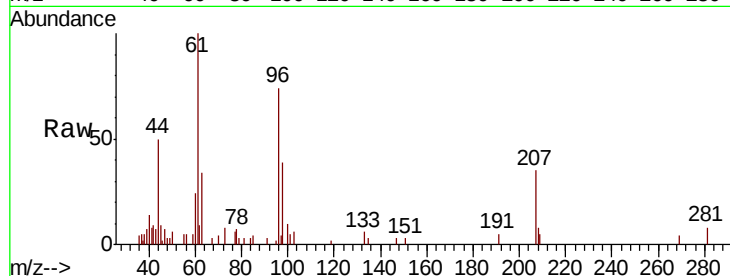
Tot Ion: 96 Resp: 2289

Ion Ratio Lower Upper

96 100

61 140.9 131.0 196.4

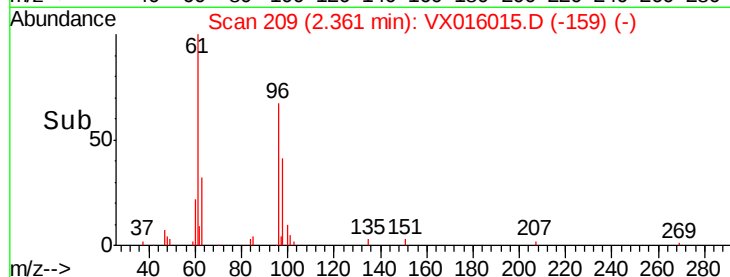
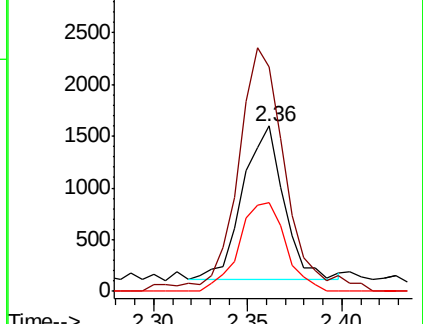
98 57.4 50.7 76.1



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.460 ug/l

RT: 2.30 min Scan# 199

Delta R.T. 0.03 min

Lab File: VX016015.D

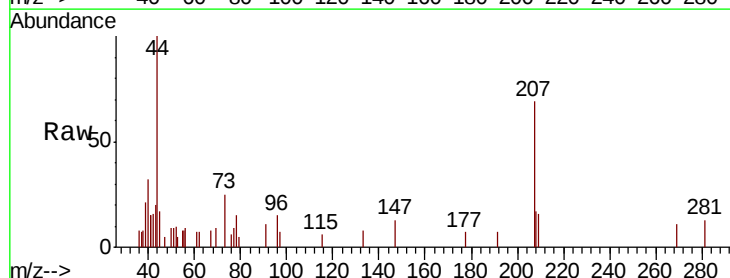
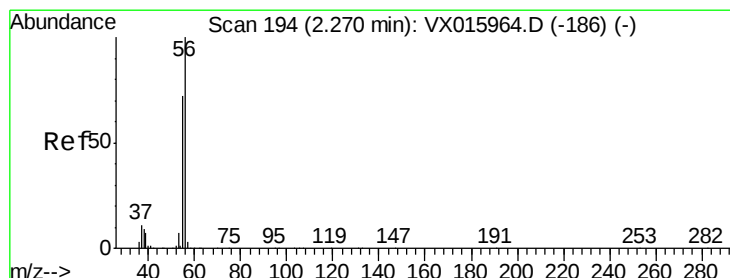
Acq: 01 May 2020 16:39

Tgt Ion: 56 Resp: 101

Ion Ratio Lower Upper

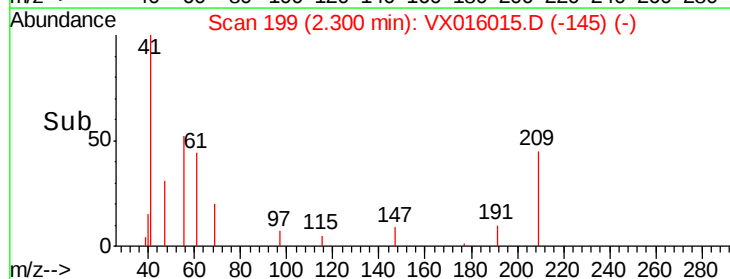
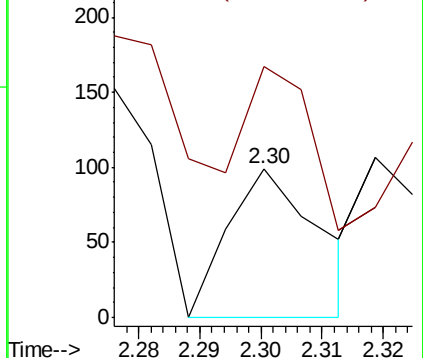
56 100

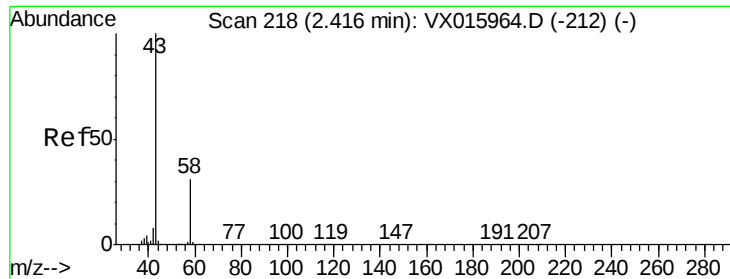
55 57.4 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

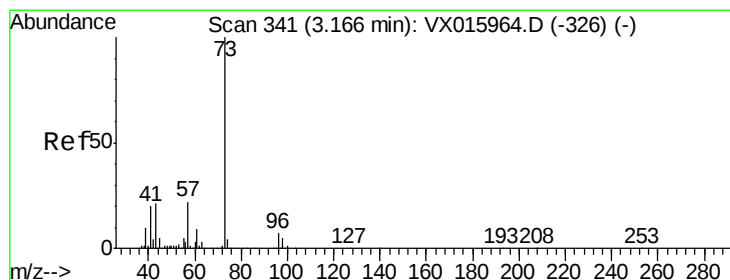
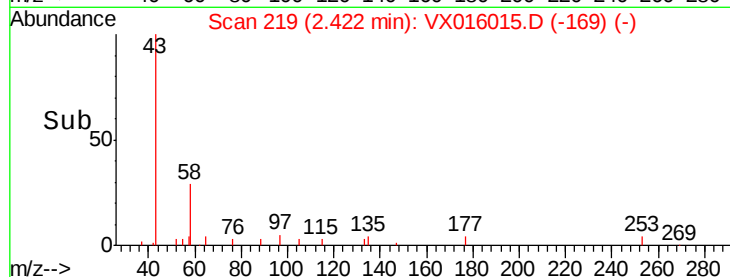
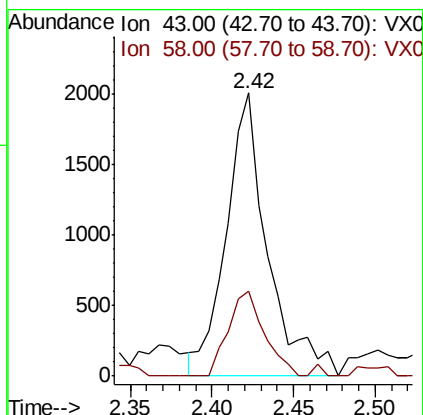
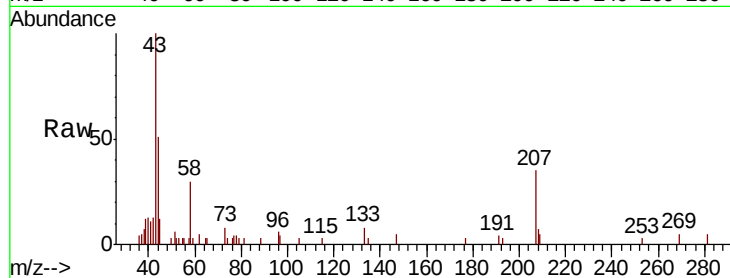




#16
Acetone
Concen: 2.310 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.01 min
Lab File: VX016015.D
Acq: 01 May 2020 16:39

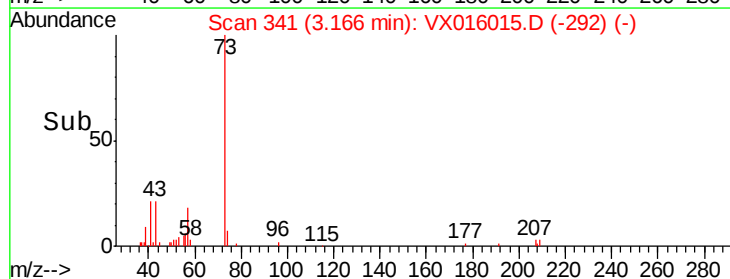
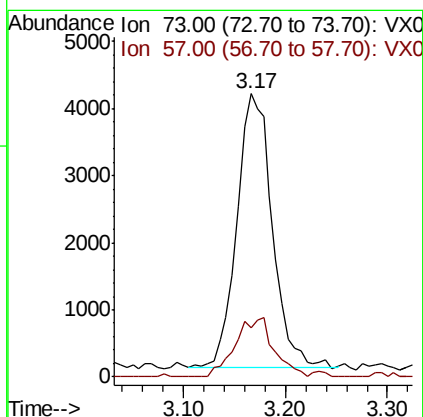
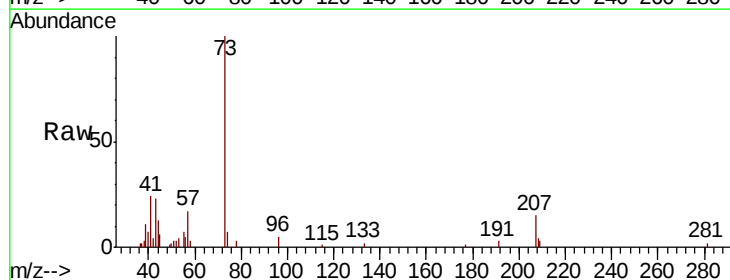
Instrument :
MSVOA_X
ClientSampleId :
SA-MW128I-20200428

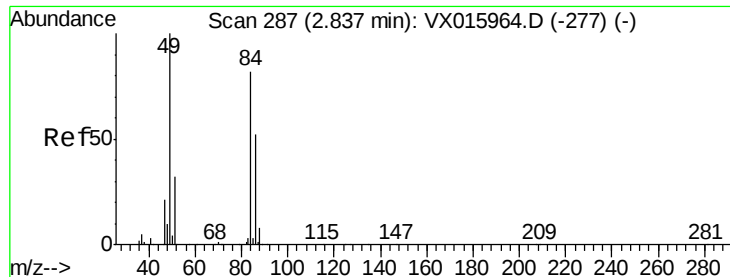
Tot Ion: 43 Resp: 3553
Ion Ratio Lower Upper
43 100
58 30.1 25.1 37.7



#19
Methyl tert-butyl Ether
Concen: 1.025 ug/l
RT: 3.17 min Scan# 341
Delta R.T. 0.00 min
Lab File: VX016015.D
Acq: 01 May 2020 16:39

Tgt Ion: 73 Resp: 9756
Ion Ratio Lower Upper
73 100
57 17.9 17.5 26.3

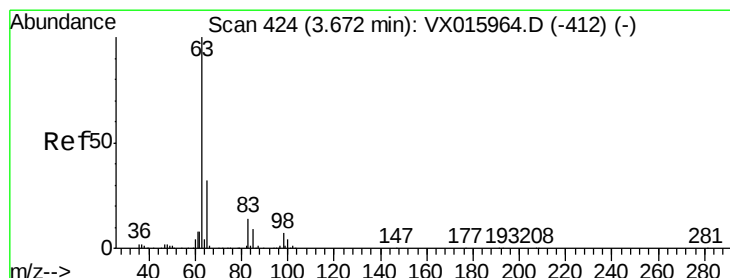
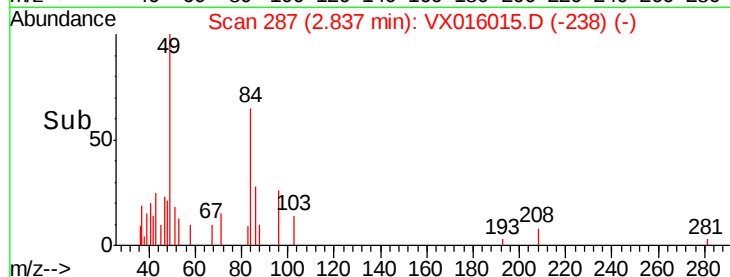
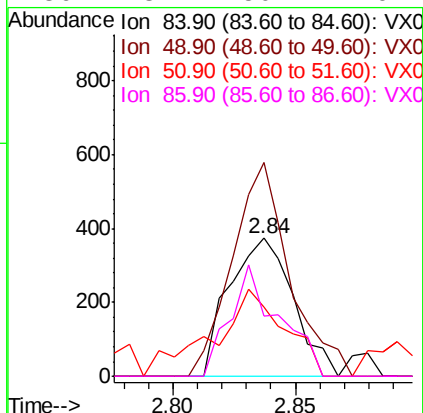
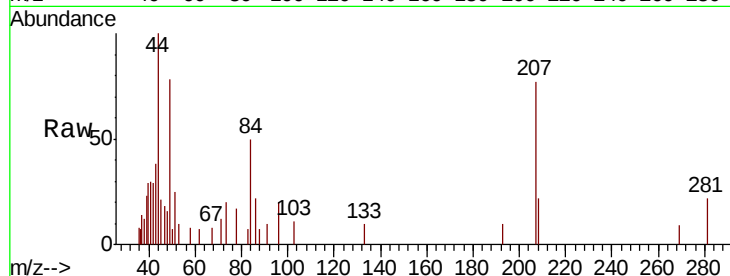




#20
Methvlene Chloride
Concen: 0.224 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX016015.D
Acq: 01 May 2020 16:39

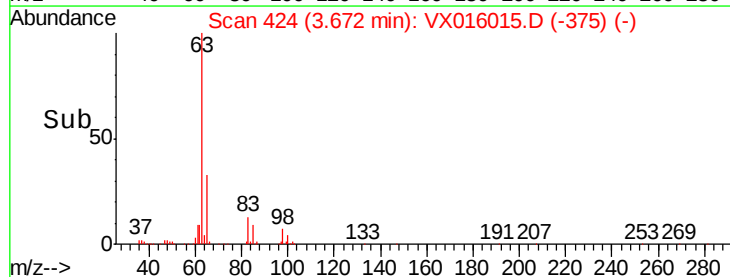
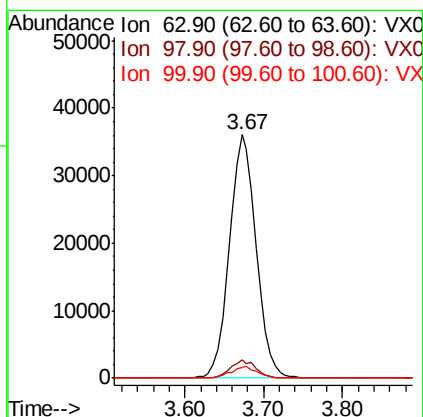
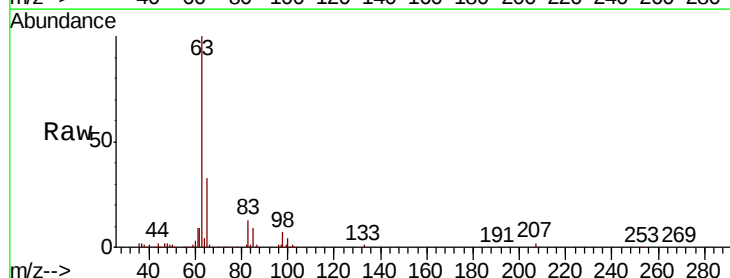
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ClientSampleId :
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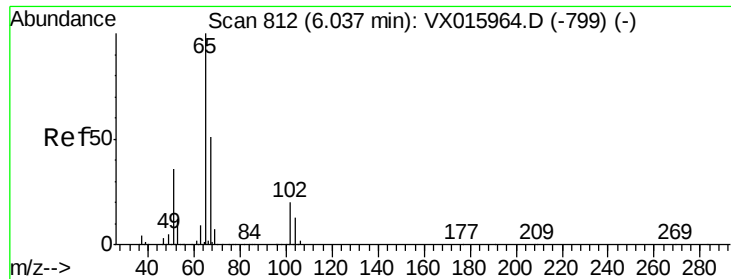
Tot Ion: 84 Resp: 683
Ion Ratio Lower Upper
84 100
49 155.0 97.9 146.9#
51 50.4 31.2 46.8#
86 43.4 50.7 76.1#



#24
1,1-Dichloroethane
Concen: 16.289 ug/l
RT: 3.67 min Scan# 424
Delta R.T. 0.00 min
Lab File: VX016015.D
Acq: 01 May 2020 16:39

Tgt Ion: 63 Resp: 84667
Ion Ratio Lower Upper
63 100
98 7.5 3.6 10.8
100 4.3 2.2 6.6

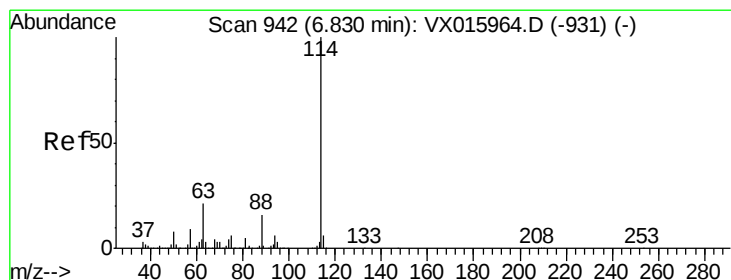
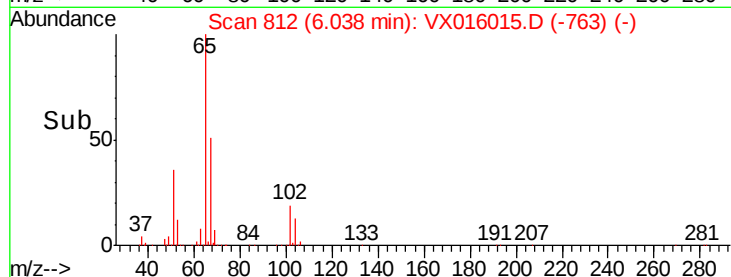
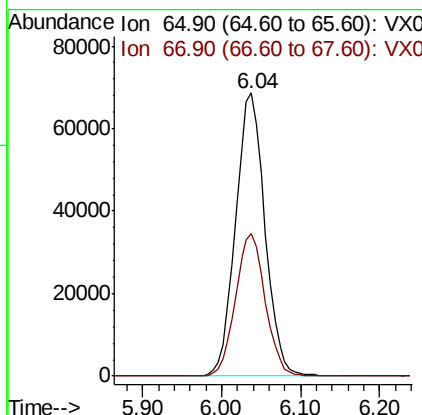
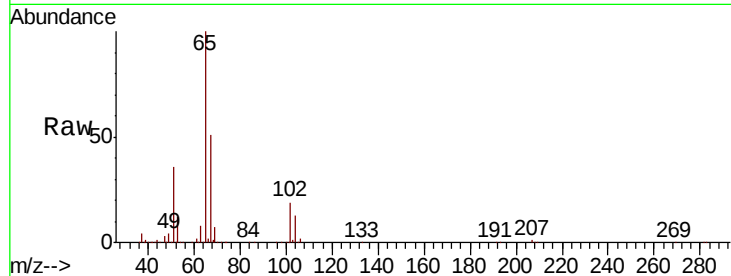




#33
 1,2-Dichloroethane-d4
 Concen: 49.313 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.00 min
 Lab File: VX016015.D
 Acq: 01 May 2020 16:39

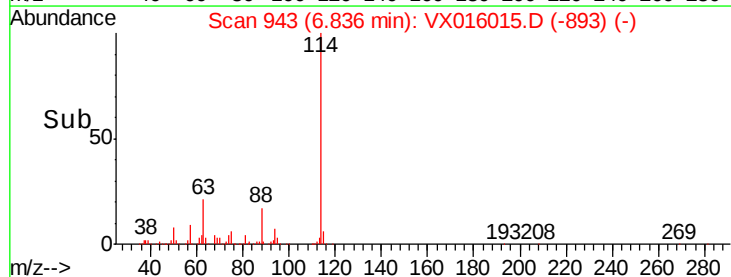
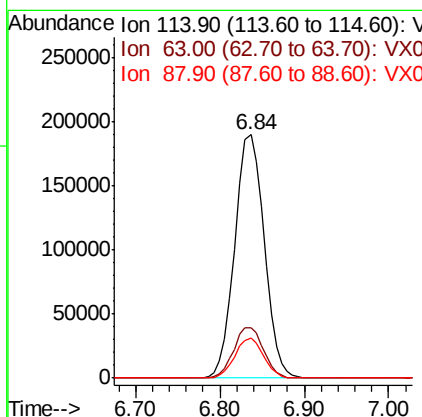
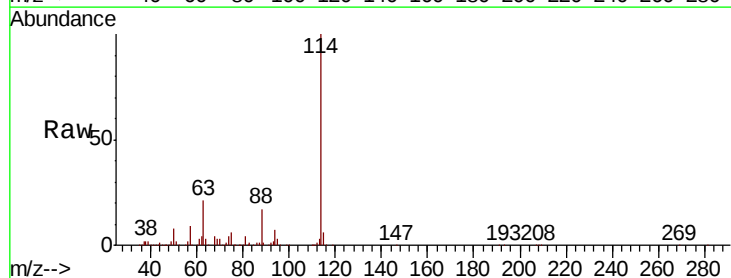
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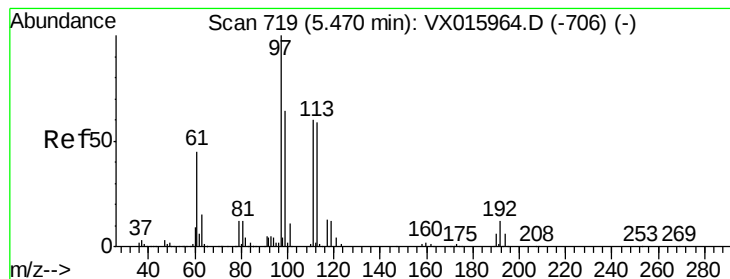
Tot Ion: 65 Resp: 177370
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016015.D
 Acq: 01 May 2020 16:39

Tgt Ion: 114 Resp: 449845
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 41.2
 88 16.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 48.184 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

SA-MW128I-20200428

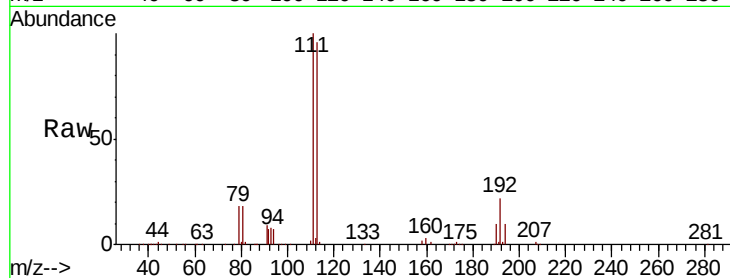
Tot Ion:113 Resp: 135211

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

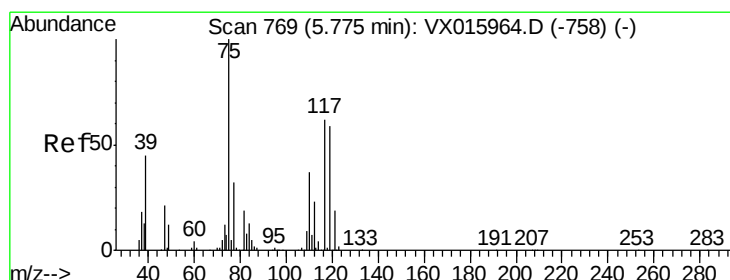
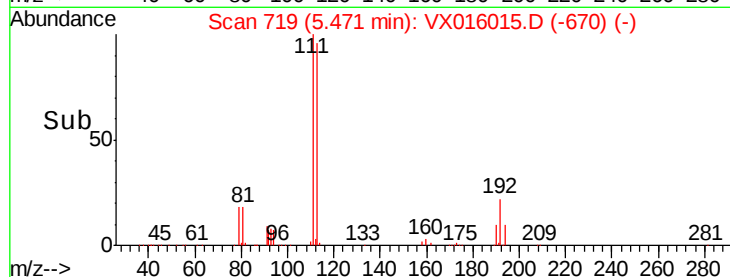
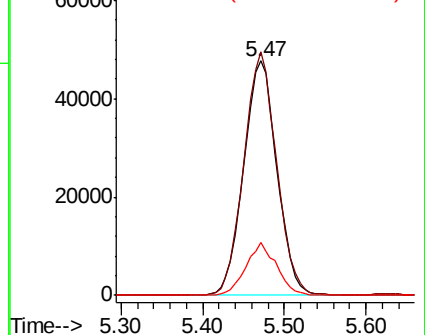
192 20.6 16.8 25.2



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: 4.924 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.14 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

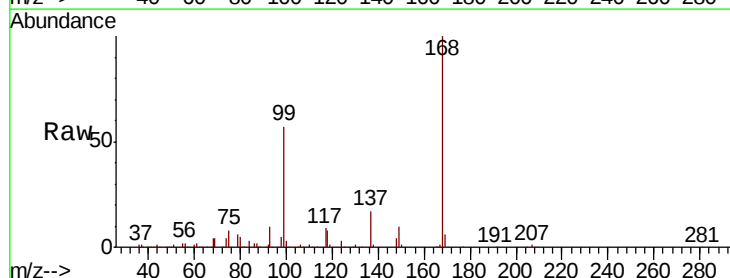
Tgt Ion: 75 Resp: 21099

Ion Ratio Lower Upper

75 100

110 9.8 17.9 53.7#

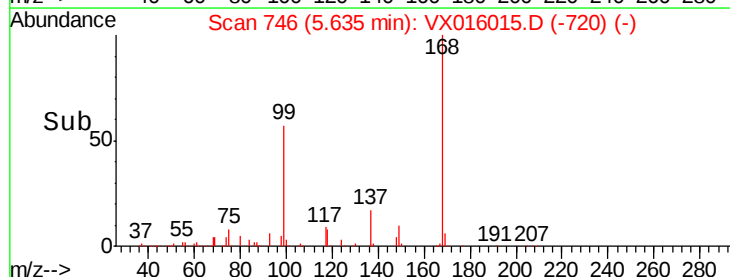
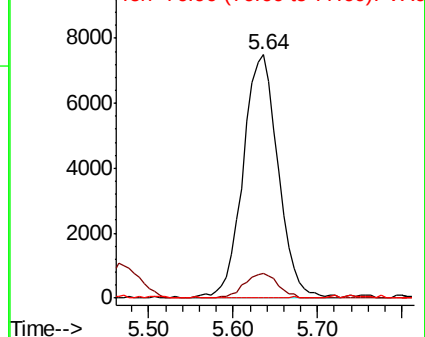
77 0.0 25.2 37.8#

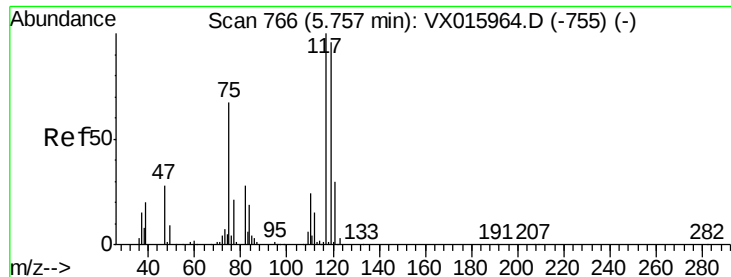


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

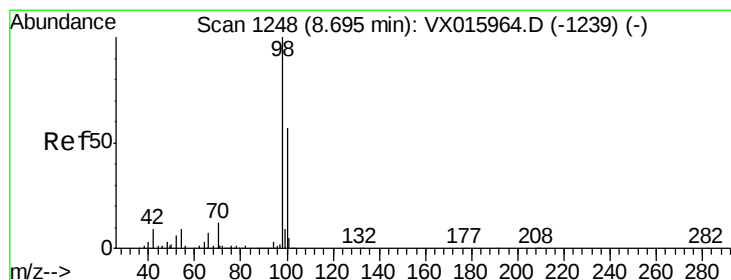
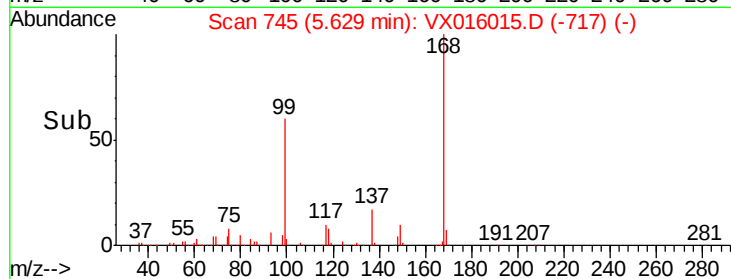
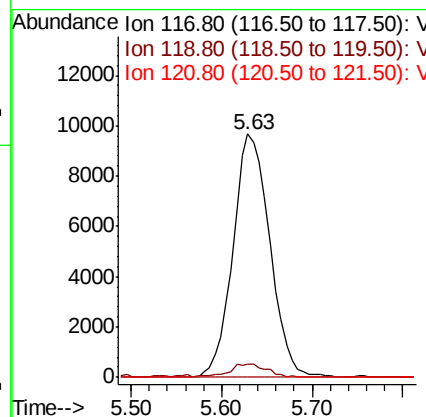
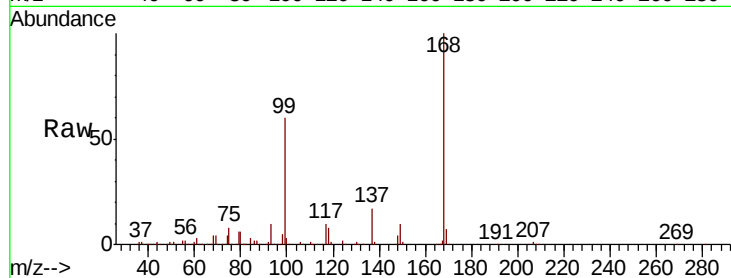




#38
Carbon Tetrachloride
Concen: 6.033 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016015.D
Acq: 01 May 2020 16:39

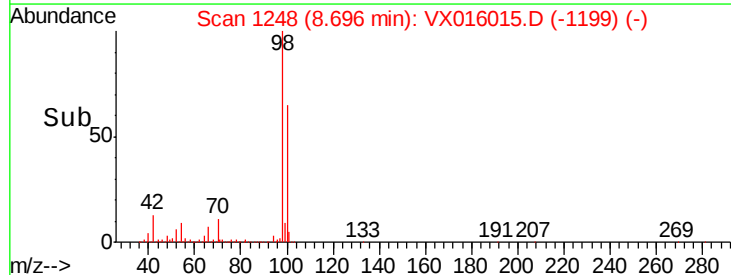
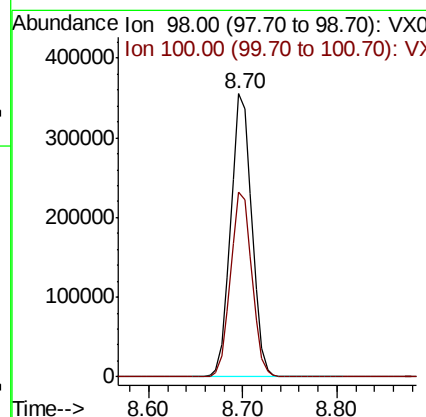
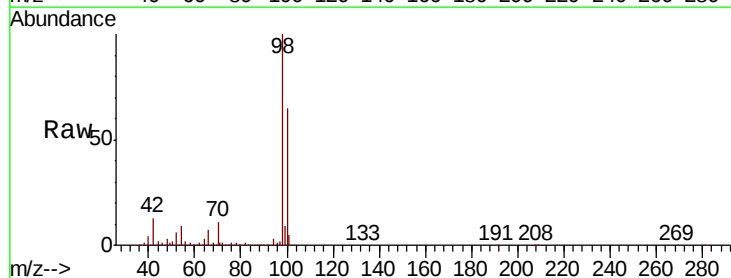
Instrument :
MSVOA_X
ClientSampleId :
SA-MW128I-20200428

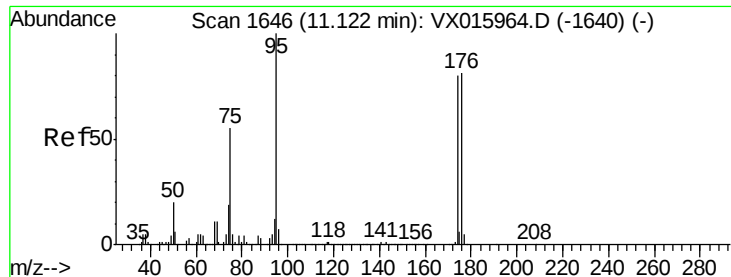
Tot Ion:117 Resp: 27304
Ion Ratio Lower Upper
117 100
119 5.6 76.2 114.4#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 52.629 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX016015.D
Acq: 01 May 2020 16:39

Tgt Ion: 98 Resp: 552174
Ion Ratio Lower Upper
98 100
100 66.0 53.1 79.7





#62

4-Bromofluorobenzene

Concen: 53.527 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

SA-MW128I-20200428

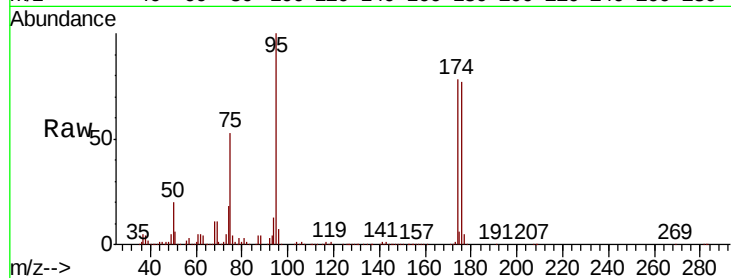
Tot Ion: 95 Resp: 220269

Ion Ratio Lower Upper

95 100

174 80.4 0.0 165.0

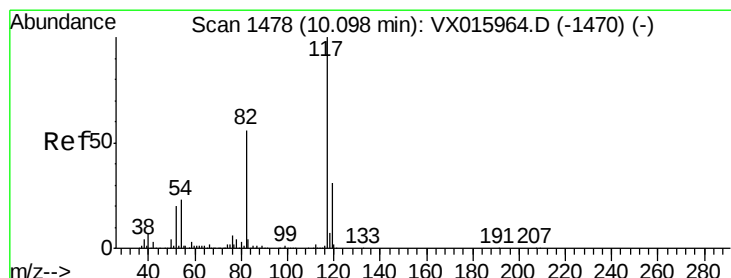
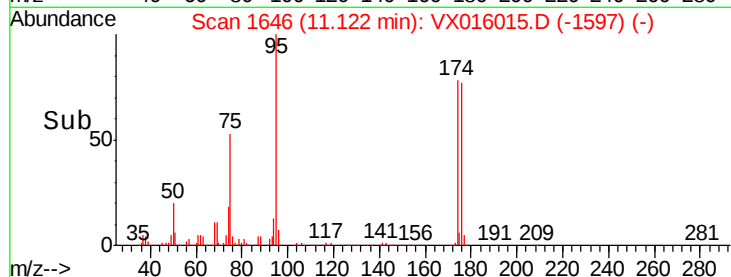
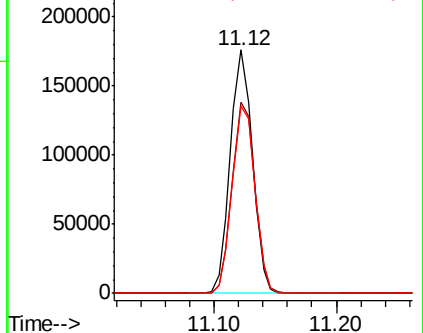
176 79.4 0.0 163.2



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: VX016015.D

Acq: 01 May 2020 16:39

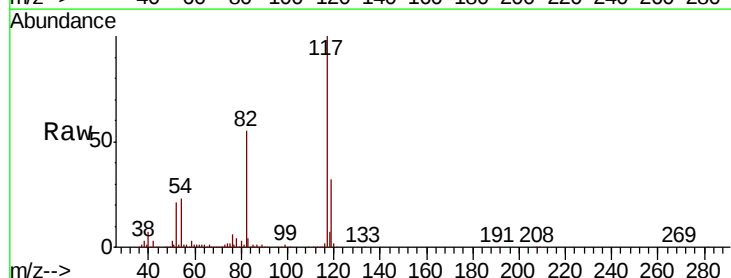
Tgt Ion: 117 Resp: 439309

Ion Ratio Lower Upper

117 100

82 55.2 44.5 66.7

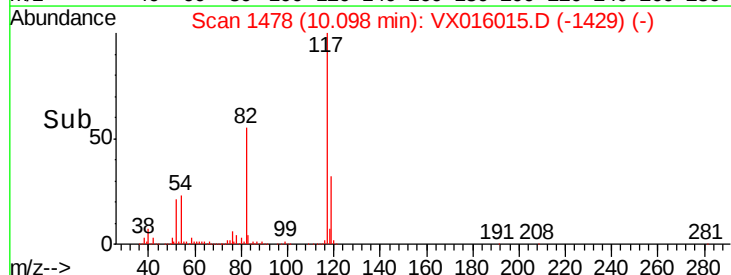
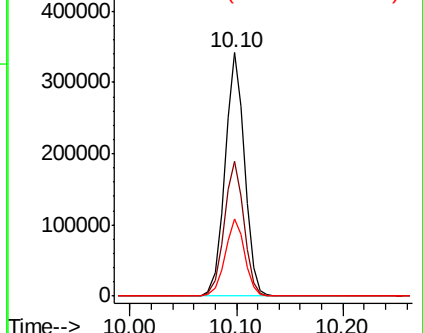
119 31.6 25.0 37.6

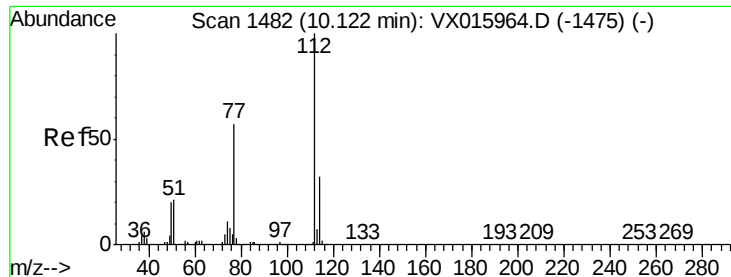


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#65

Chlorobenzene

Concen: 0.409 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

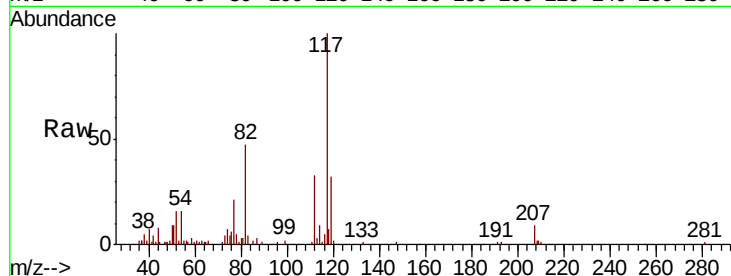
SA-MW128I-20200428

Tot Ion:112 Resp: 3662

Ion Ratio Lower Upper

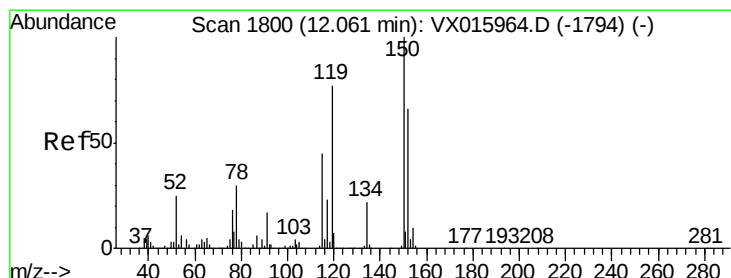
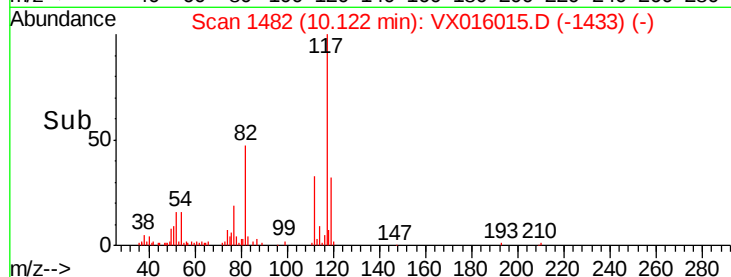
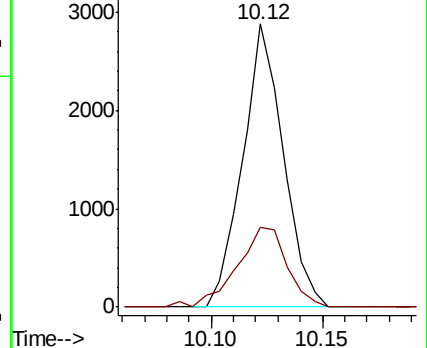
112 100

114 28.2 25.4 38.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

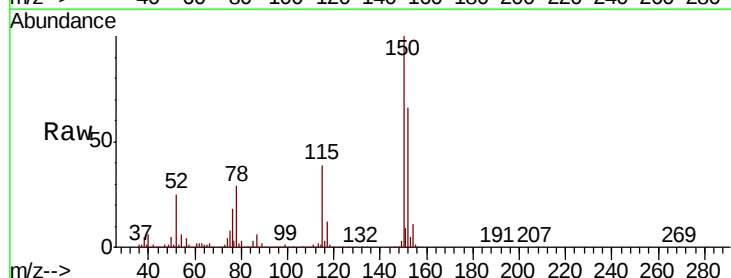
Tgt Ion:152 Resp: 229715

Ion Ratio Lower Upper

152 100

115 58.5 40.9 122.7

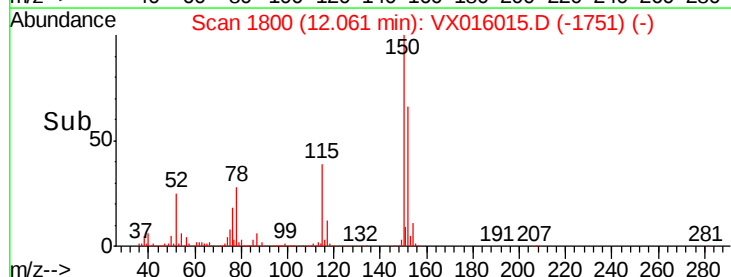
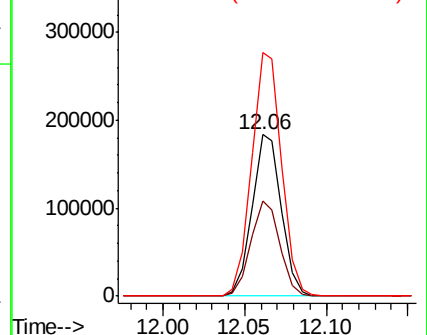
150 153.8 0.0 342.4

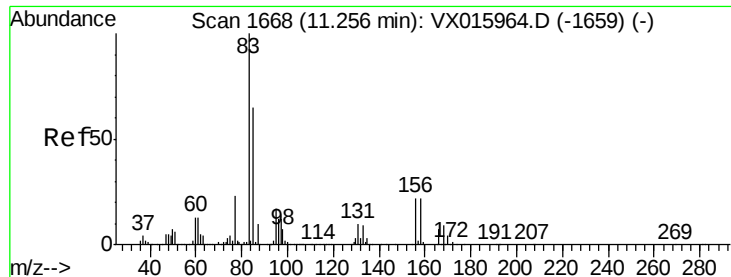


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 3.706 ug/l

RT: 11.34 min Scan# 1681

Delta R.T. 0.08 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

SA-MW128I-20200428

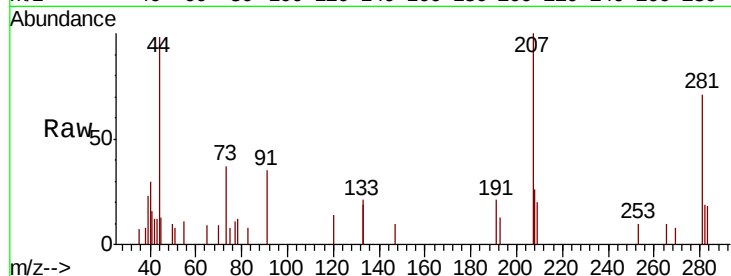
Tot Ion: 83 Resp: 20

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

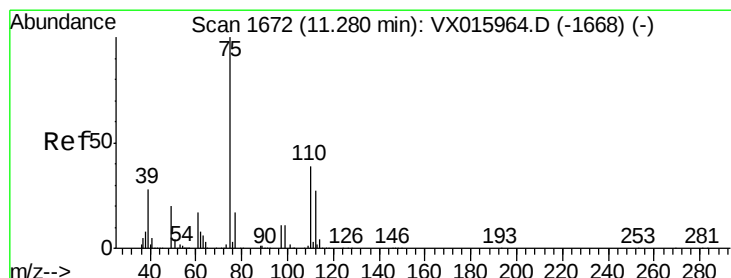
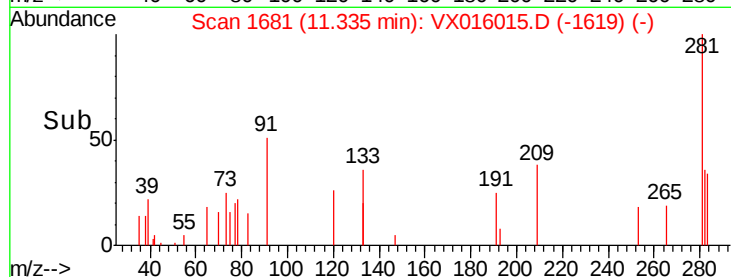
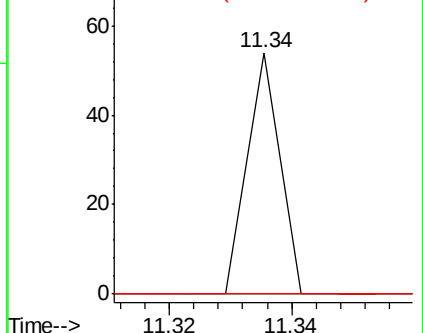
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 24.214 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016015.D

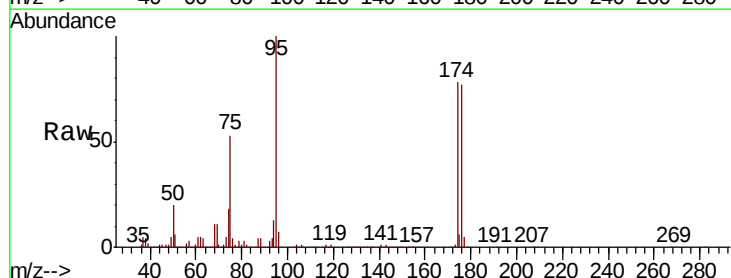
Acq: 01 May 2020 16:39

Tgt Ion: 75 Resp: 116716

Ion Ratio Lower Upper

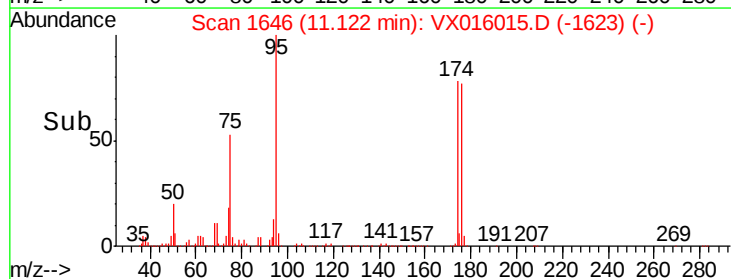
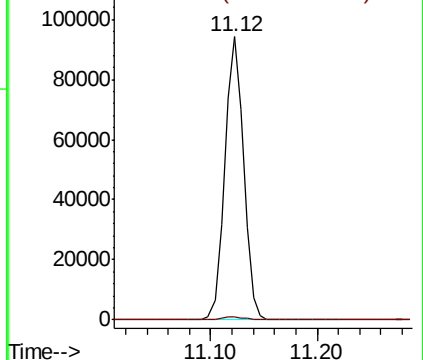
75 100

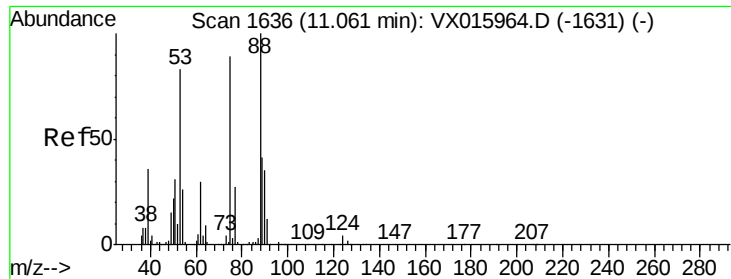
77 1.3 21.6 65.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 57.221 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

SA-MW128I-20200428

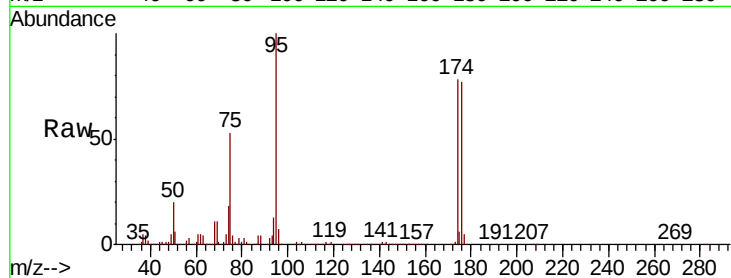
Tot Ion: 75 Resp: 116716

Ion Ratio Lower Upper

75 100

53 0.1 78.3 117.5#

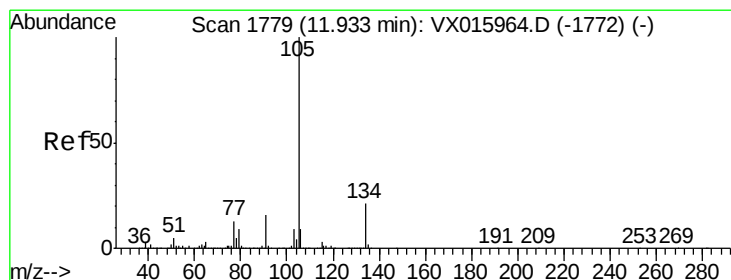
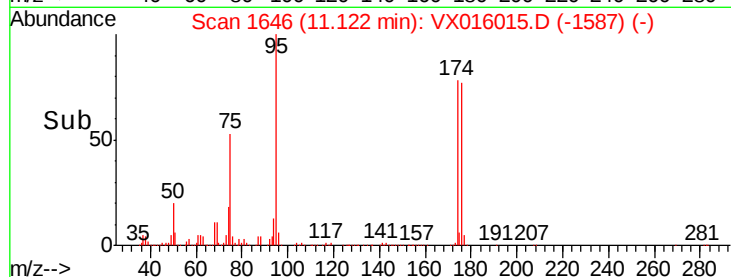
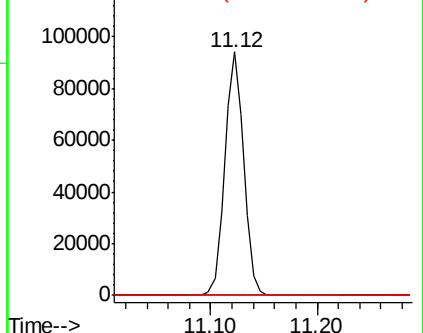
89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#85

sec-Butylbenzene

Concen: 0.225 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VX016015.D

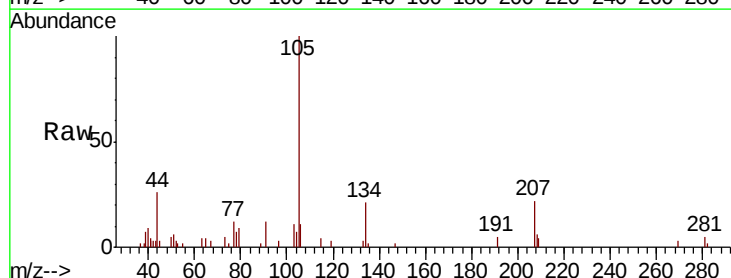
Acq: 01 May 2020 16:39

Tgt Ion: 105 Resp: 3448

Ion Ratio Lower Upper

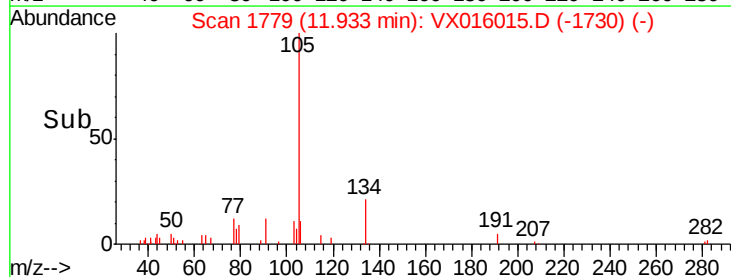
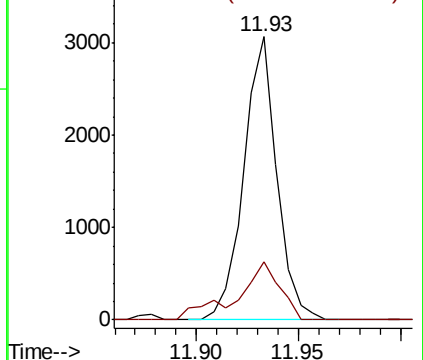
105 100

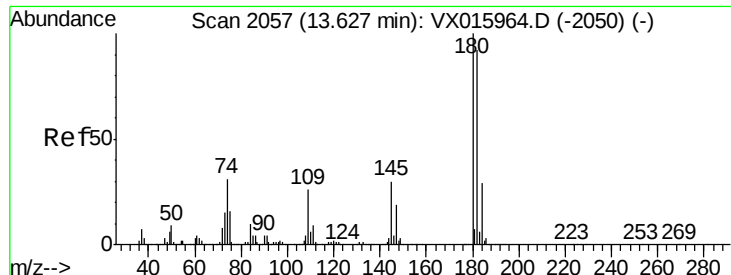
134 26.7 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#93

1,2,4-Trichlorobenzene

Concen: 0.290 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. 0.00 min

Lab File: VX016015.D

Acq: 01 May 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

SA-MW128I-20200428

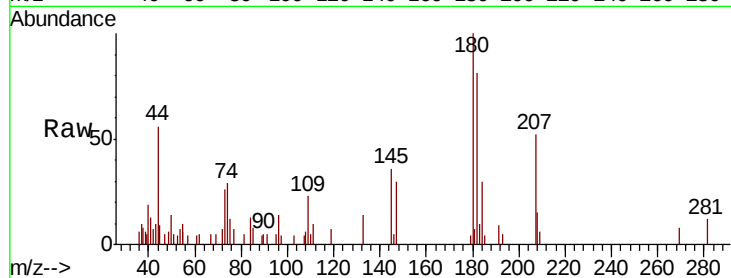
Tot Ion:180 Resp: 1525

Ion Ratio Lower Upper

180 100

182 92.3 46.9 140.6

145 39.4 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

