

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050520\
 Data File : VX016065.D
 Acq On : 05 May 2020 15:43
 Operator : JC/SP
 Sample : L2469-25
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP01-20200428

Quant Time: May 06 05:02:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 04:29:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	295571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	480462	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	474281	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	247417	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	183270	47.12	ug/l	0.00
Spiked Amount			Recovery	=	94.24%	
35) Dibromofluoromethane	5.47	113	141128	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
50) Toluene-d8	8.70	98	595892	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.12	95	239299	53.64	ug/l	0.00
Spiked Amount			Recovery	=	107.28%	

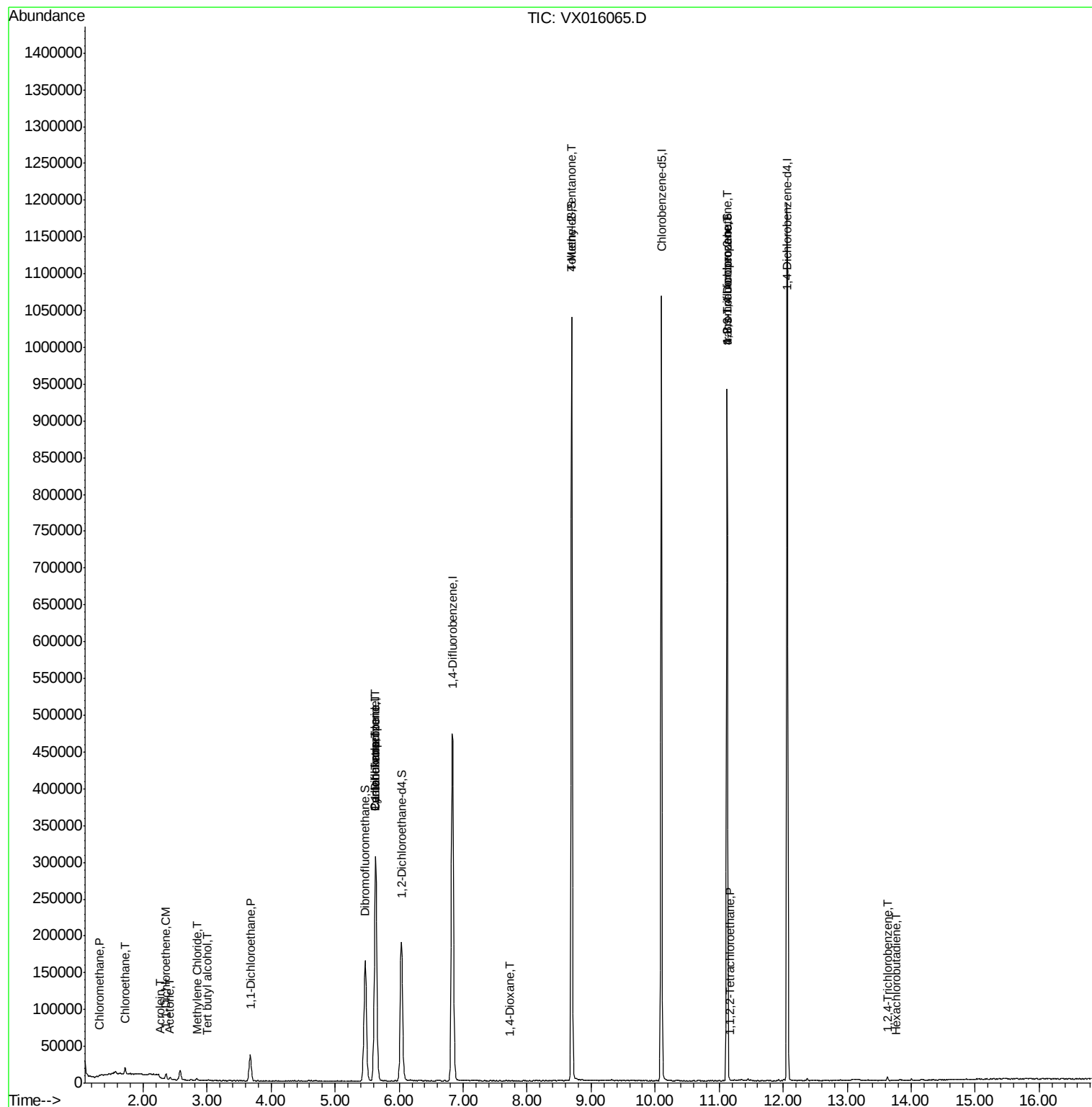
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	778	0.214	ug/l #	75
6) Chloroethane	1.72	64	5521	2.341	ug/l	97
11) Tert butyl alcohol	3.01	59	982	0.998	ug/l	96
12) 1,1-Dichloroethene	2.36	96	2755	0.897	ug/l	97
13) Acrolein	2.27	56	413	0.671	ug/l #	14
16) Acetone	2.42	43	2846	1.640	ug/l	91
20) Methylene Chloride	2.84	84	802	0.224	ug/l #	82
24) 1,1-Dichloroethane	3.67	63	40771	6.858	ug/l	98
31) Cyclohexane	5.63	56	6214	1.150	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	22141	4.681	ug/l #	50
38) Carbon Tetrachloride	5.63	117	28230	5.872	ug/l #	14
49) 1,4-Dioxane	7.73	88	190	1.912	ug/l #	73
51) 4-Methyl-2-Pentanone	8.70	43	2646	0.494	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.18	83	19	4.816	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	122931	21.895	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	122931	52.178	ug/l #	13
93) 1,2,4-Trichlorobenzene	13.63	180	1221	0.205	ug/l	91
94) Hexachlorobutadiene	13.77	225	134	0.575	ug/l	76

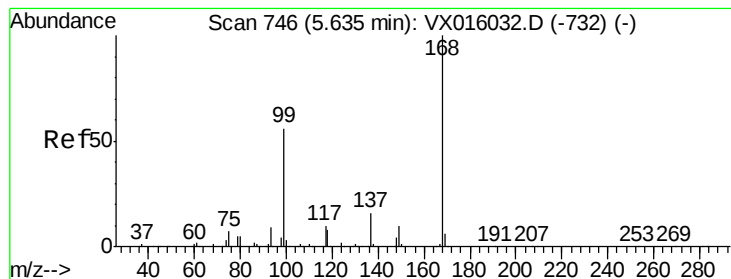
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 04:29:02 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

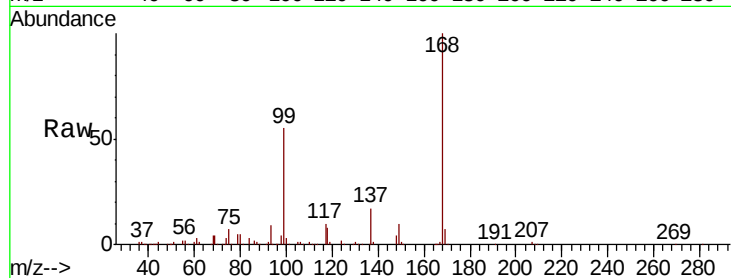
SA-DUP01-20200428

Tot Ion:168 Resp: 295571

Ion Ratio Lower Upper

168 100

99 55.4 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

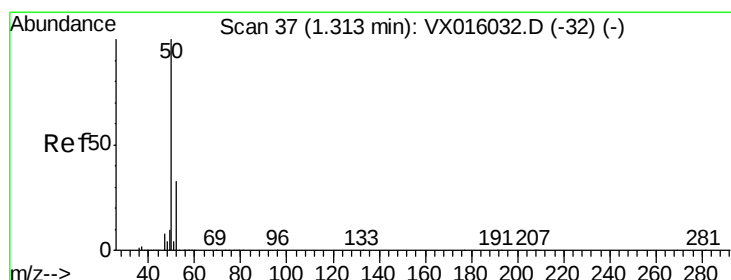
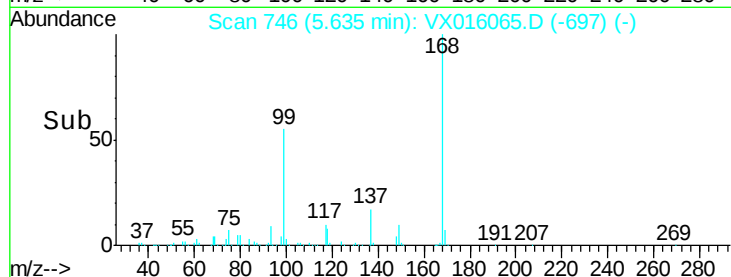
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.214 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016065.D

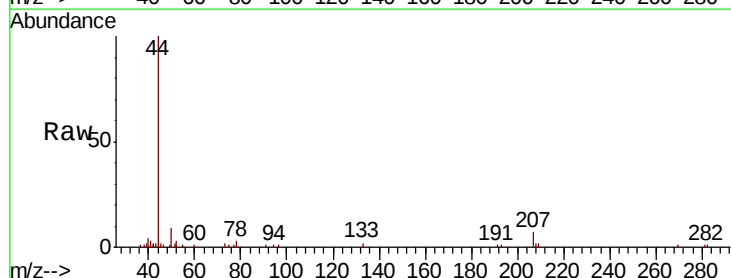
Acq: 05 May 2020 15:43

Tgt Ion: 50 Resp: 778

Ion Ratio Lower Upper

50 100

52 18.5 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

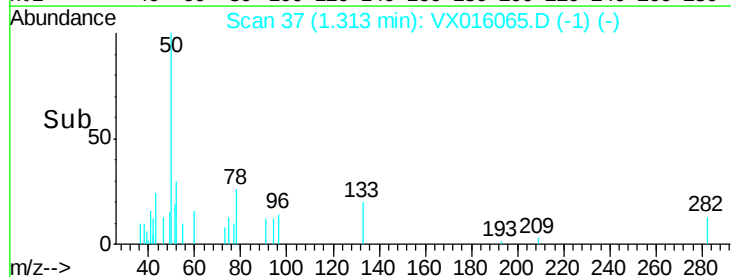
600

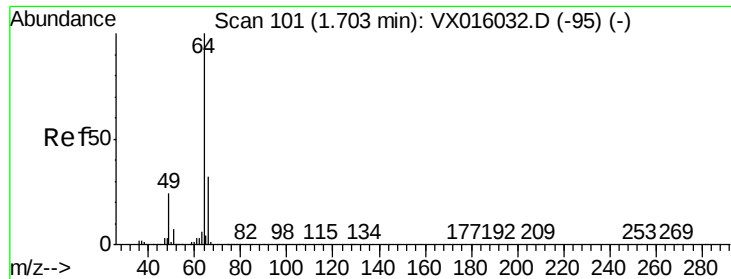
400

200

0

Time-->





#6

Chloroethane

Concen: 2.341 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

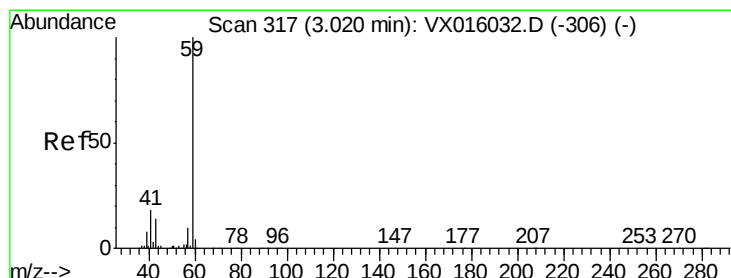
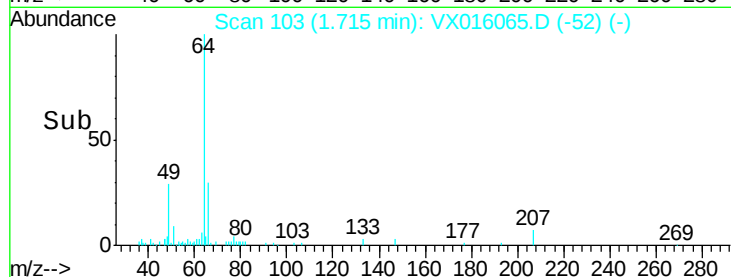
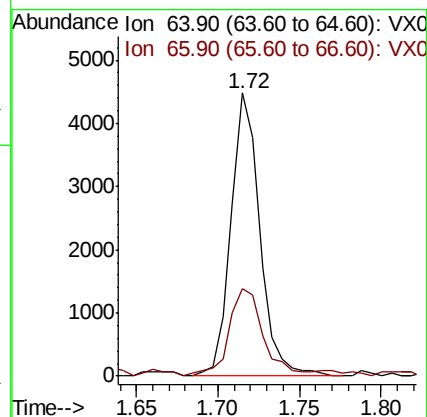
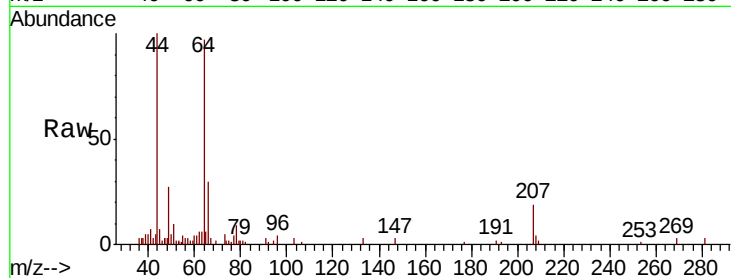
SA-DUP01-20200428

Tot Ion: 64 Resp: 5521

Ion Ratio Lower Upper

64 100

66 29.7 25.2 37.8



#11

Tert butyl alcohol

Concen: 0.998 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016065.D

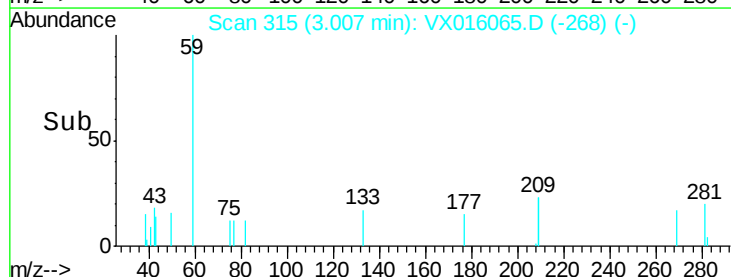
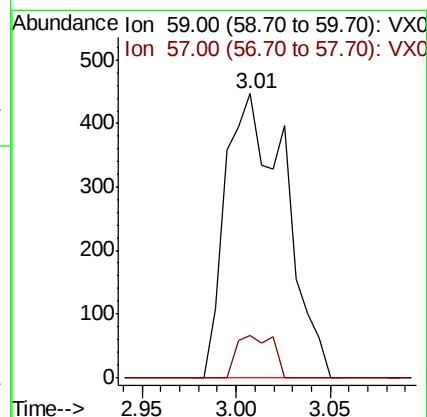
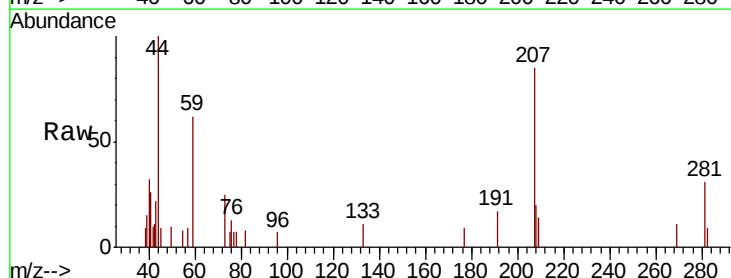
Acq: 05 May 2020 15:43

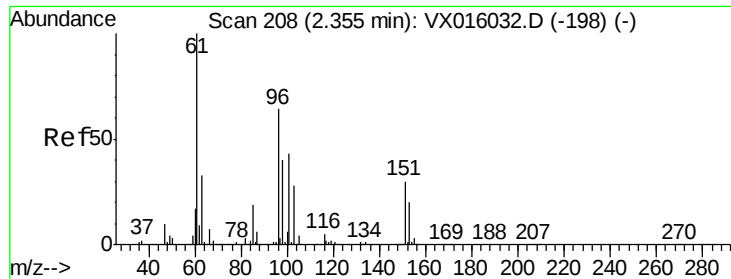
Tgt Ion: 59 Resp: 982

Ion Ratio Lower Upper

59 100

57 8.9 8.2 12.4





#12

1,1-Dichloroethene

Concen: 0.897 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20200428

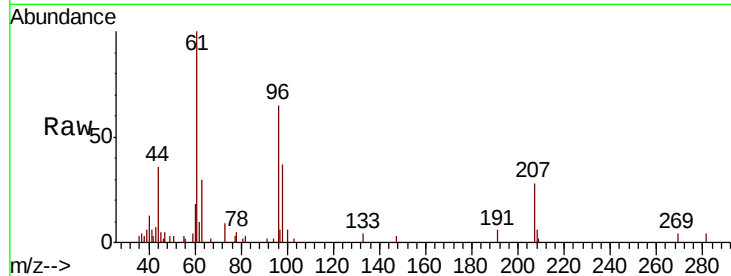
Tot Ion: 96 Resp: 2755

Ion Ratio Lower Upper

96 100

61 159.1 124.8 187.2

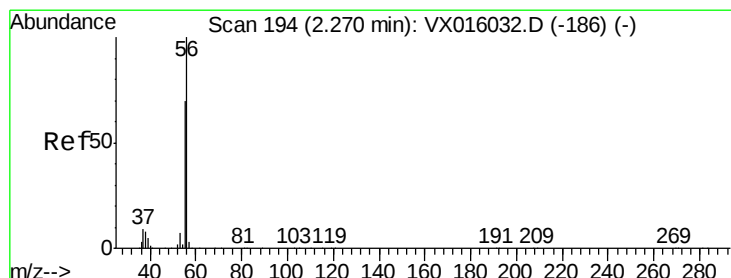
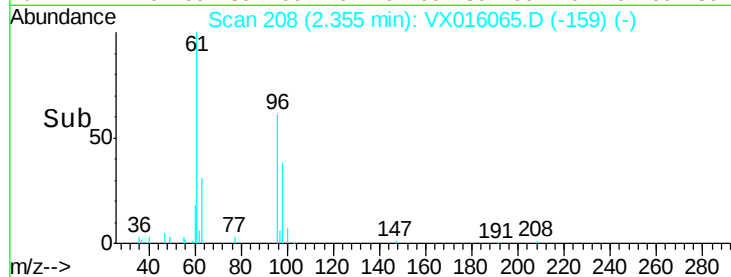
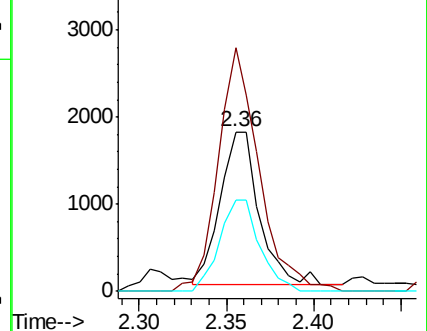
98 59.3 49.7 74.5



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: 0.671 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016065.D

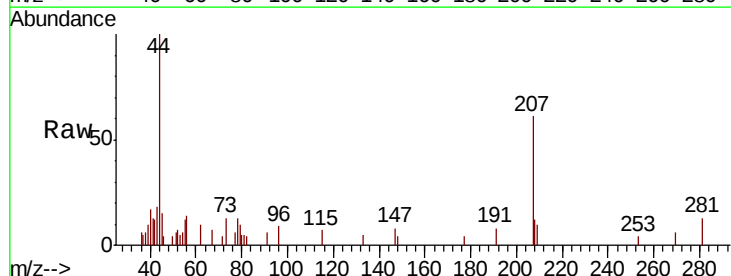
Acq: 05 May 2020 15:43

Tgt Ion: 56 Resp: 413

Ion Ratio Lower Upper

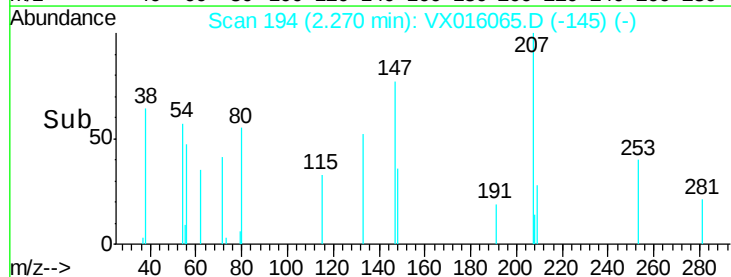
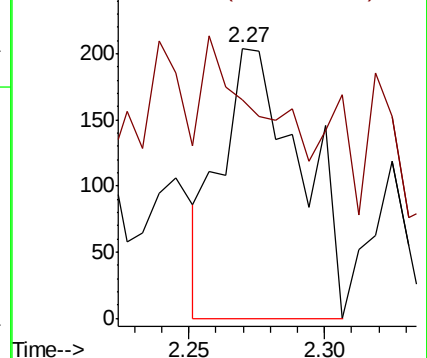
56 100

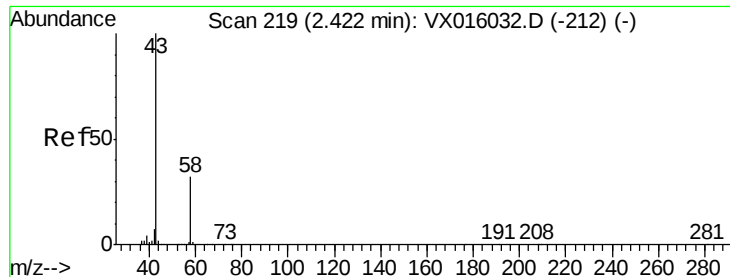
55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.640 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

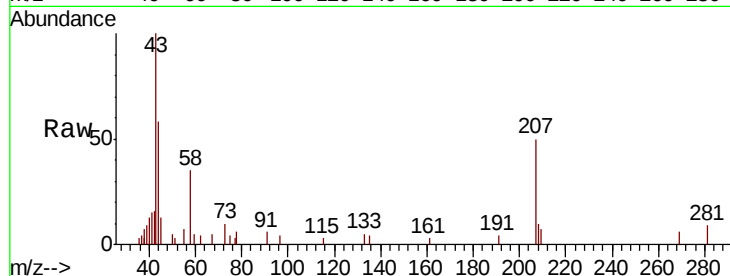
SA-DUP01-20200428

Tot Ion: 43 Resp: 2846

Ion Ratio Lower Upper

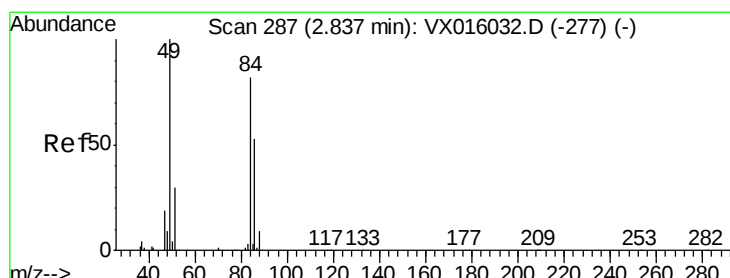
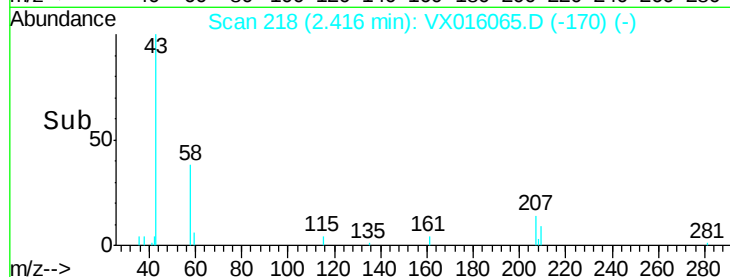
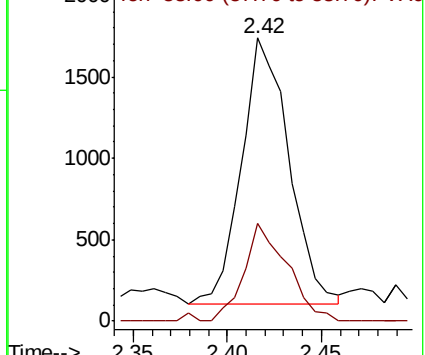
43 100

58 36.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.224 ug/l

RT: 2.84 min Scan# 287

Delta R.T. -0.00 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Tgt Ion: 84 Resp: 802

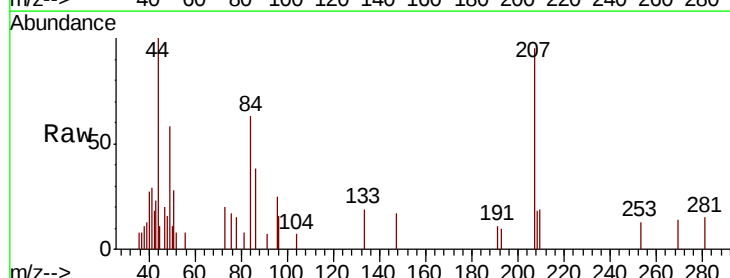
Ion Ratio Lower Upper

84 100

49 92.3 97.3 145.9#

51 44.9 29.3 43.9#

86 59.8 51.3 76.9

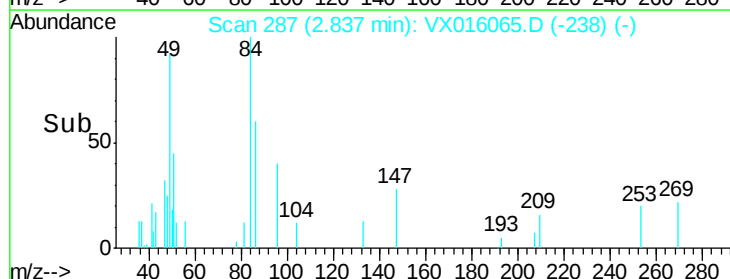
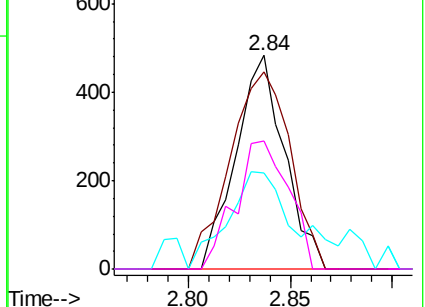


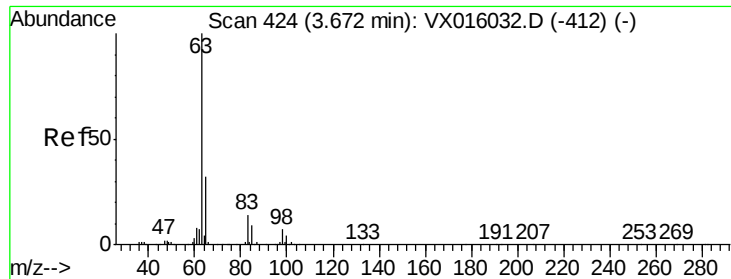
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

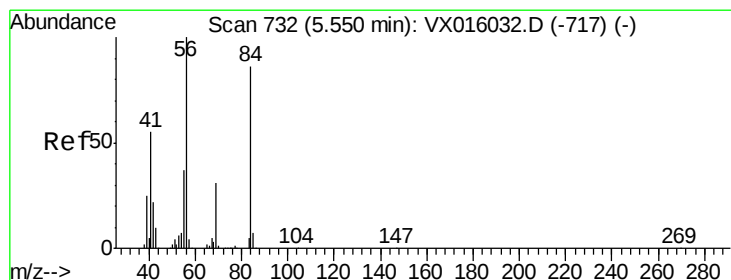
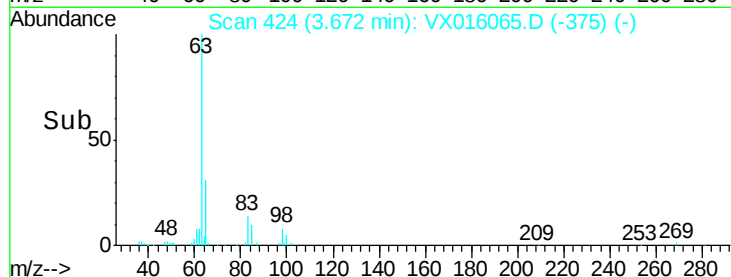
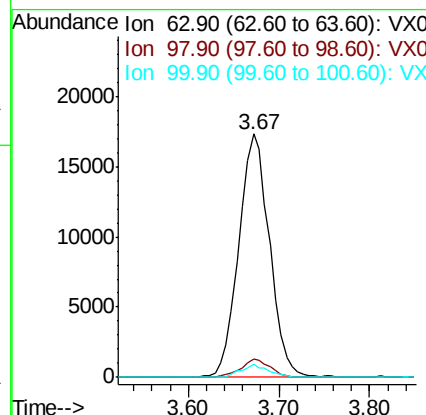
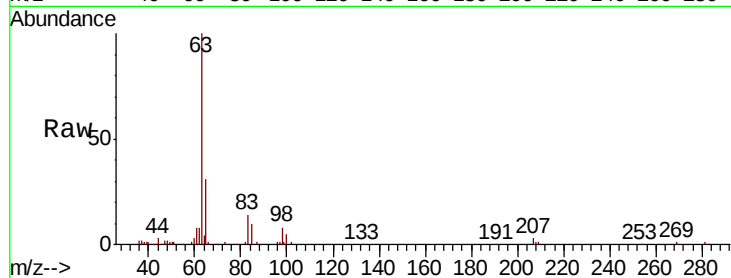




#24
 1,1-Dichloroethane
 Concen: 6.858 ug/l
 RT: 3.67 min Scan# 424
 Delta R.T. -0.00 min
 Lab File: VX016065.D
 Acq: 05 May 2020 15:43

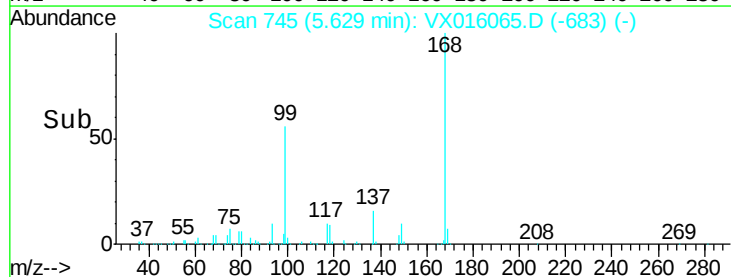
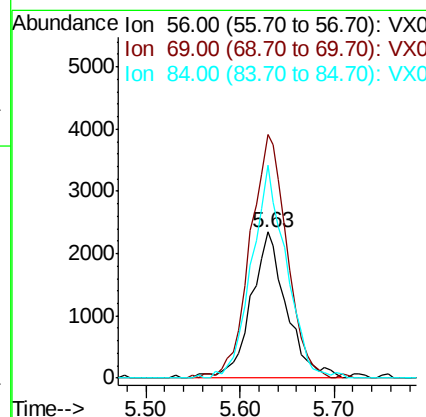
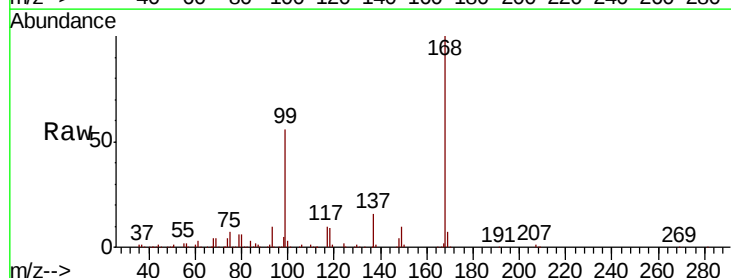
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP01-20200428

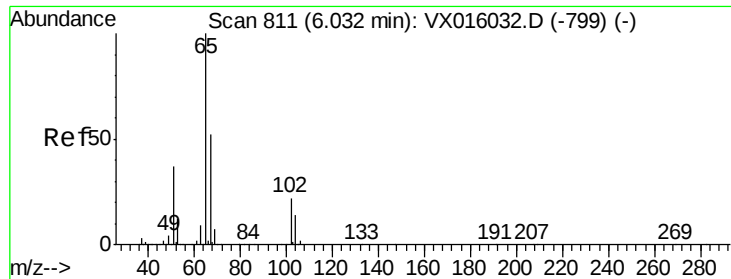
Tot Ion:	63	Resp:	40771
Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.5	10.5
100	5.3	2.1	6.5



#31
 Cyclohexane
 Concen: 1.150 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. 0.08 min
 Lab File: VX016065.D
 Acq: 05 May 2020 15:43

Tgt Ion:	56	Resp:	6214
Ion	Ratio	Lower	Upper
56	100		
69	164.3	25.0	37.6#
84	154.2	69.0	103.6#





#33

1,2-Dichloroethane-d4

Concen: 47.120 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

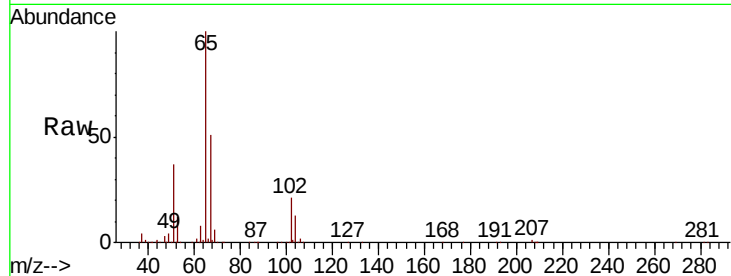
SA-DUP01-20200428

Tot Ion: 65 Resp: 183270

Ion Ratio Lower Upper

65 100

67 51.7 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

80000

60000

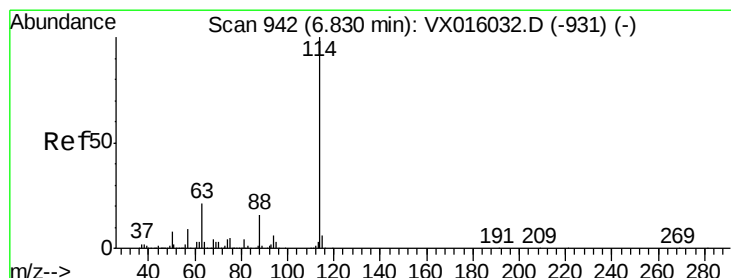
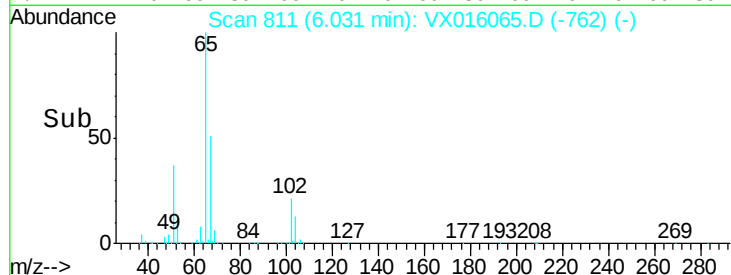
40000

20000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

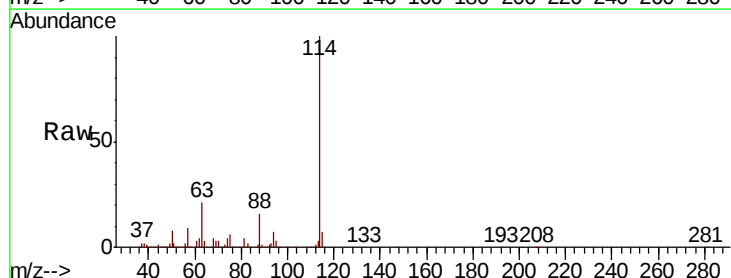
Tgt Ion: 114 Resp: 480462

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.8

88 16.5 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

250000

200000

150000

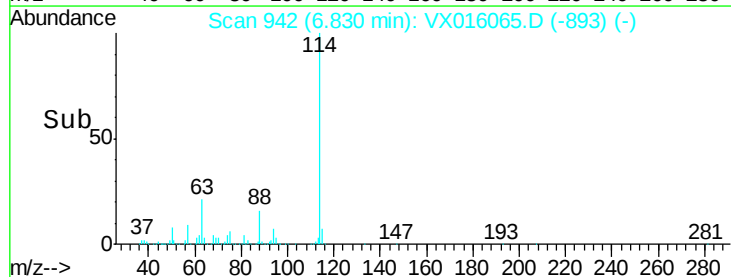
100000

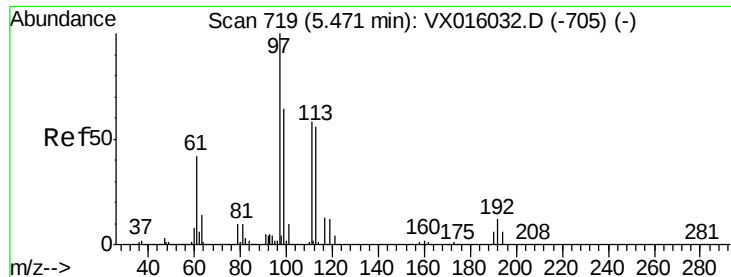
50000

0

Time-->

6.70 6.80 6.90





#35

Dibromofluoromethane

Concen: 46.364 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20200428

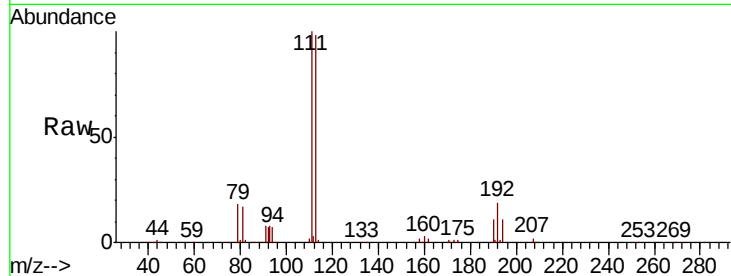
Tot Ion:113 Resp: 141128

Ion Ratio Lower Upper

113 100

111 103.4 81.6 122.4

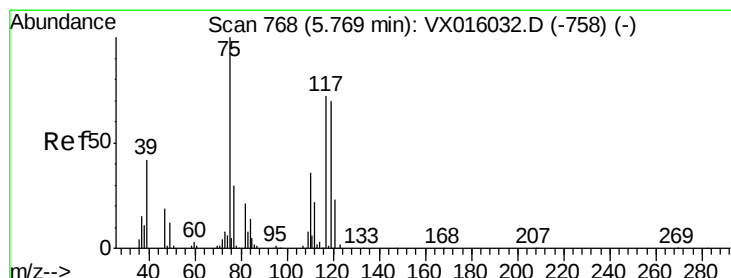
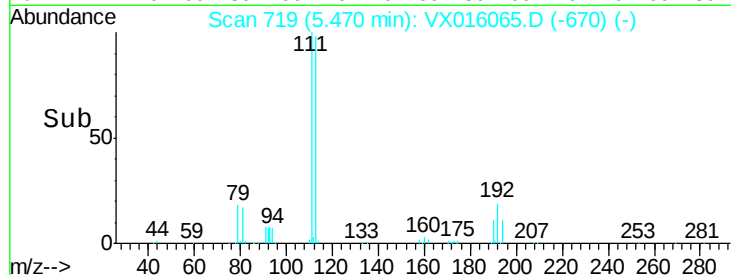
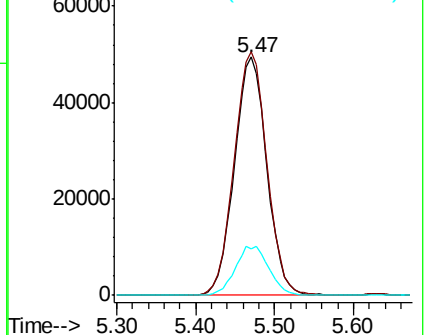
192 21.4 17.0 25.4



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: 4.681 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

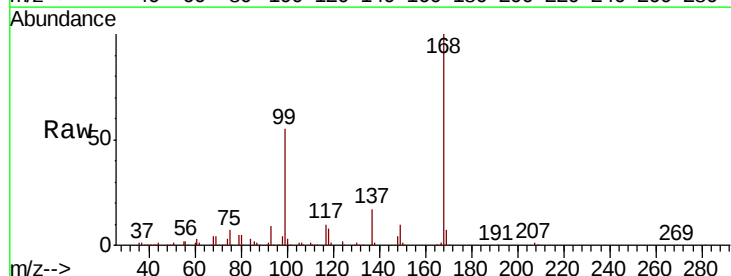
Tgt Ion: 75 Resp: 22141

Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.1#

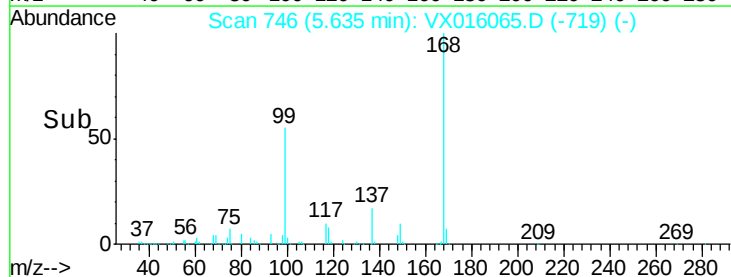
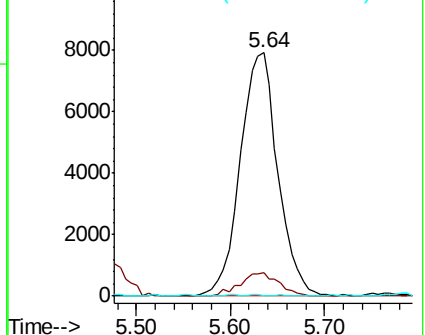
77 0.2 25.0 37.6#

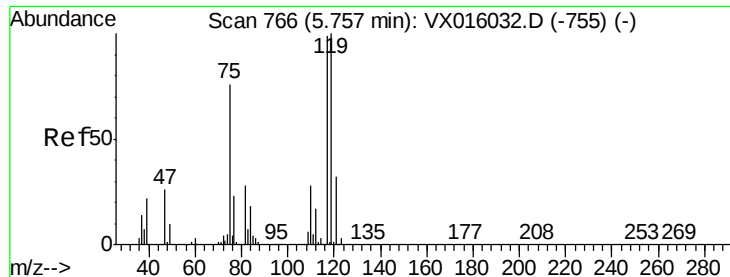


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.872 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20200428

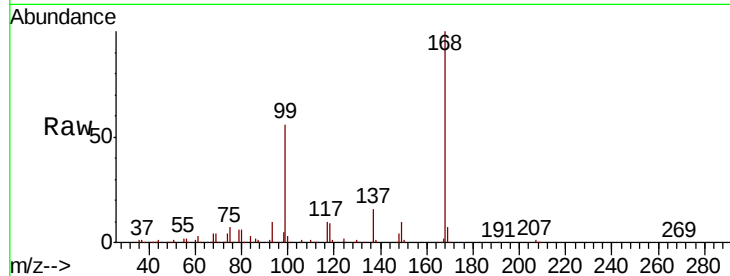
Tot Ion:117 Resp: 28230

Ion Ratio Lower Upper

117 100

119 5.4 80.3 120.5#

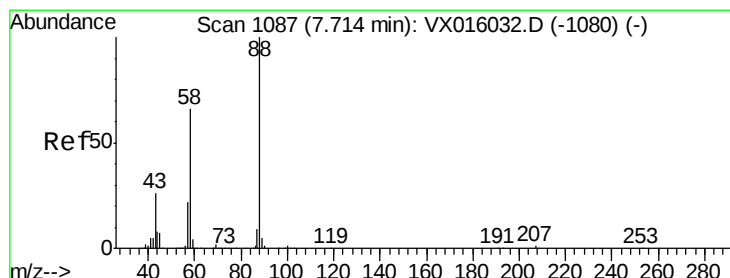
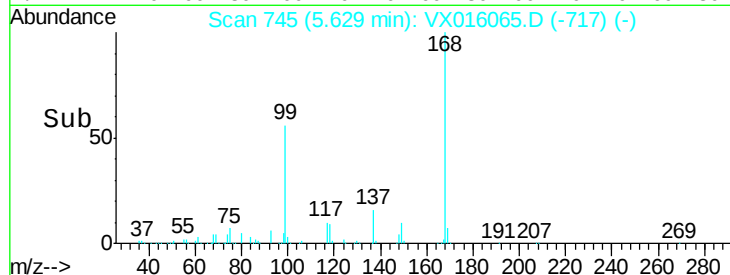
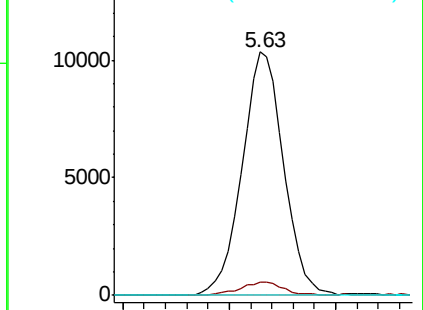
121 0.0 25.7 38.5#



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



#49

1,4-Dioxane

Concen: 1.912 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

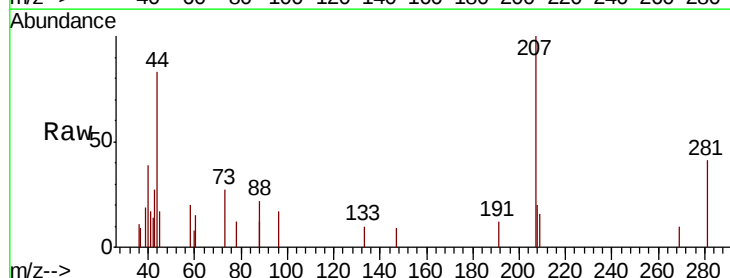
Tgt Ion: 88 Resp: 190

Ion Ratio Lower Upper

88 100

43 51.6 25.3 37.9#

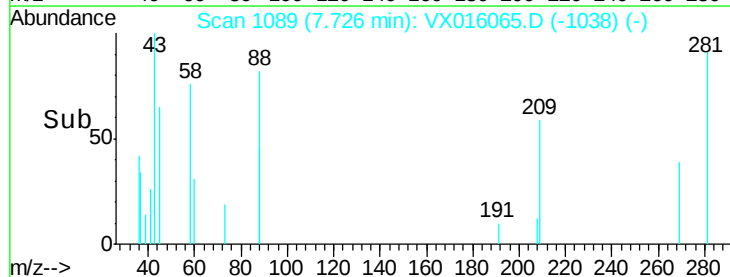
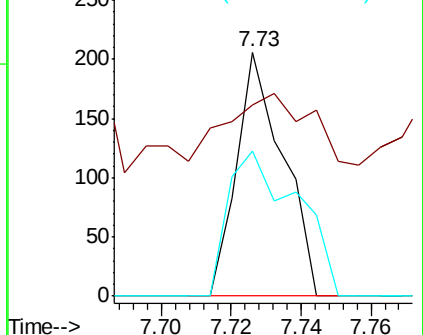
58 88.9 55.9 83.9#

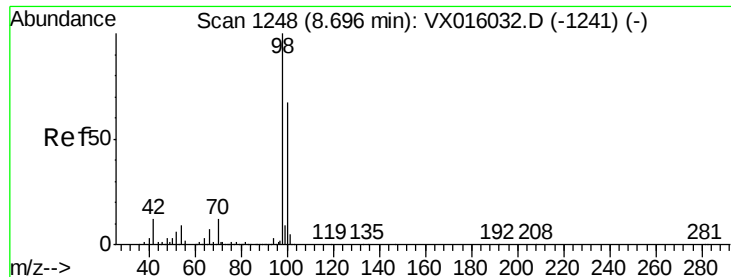


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.807 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

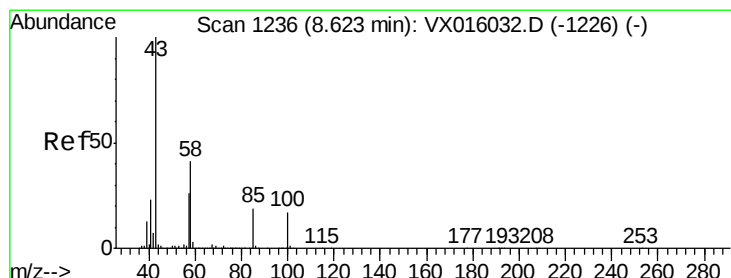
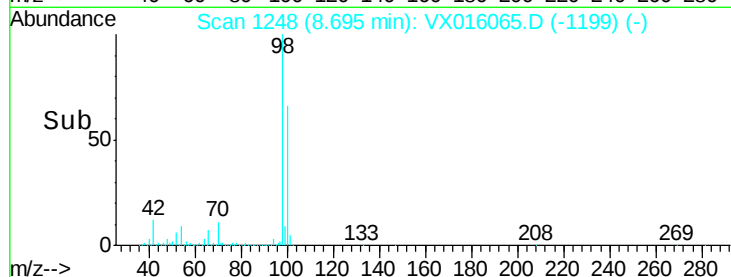
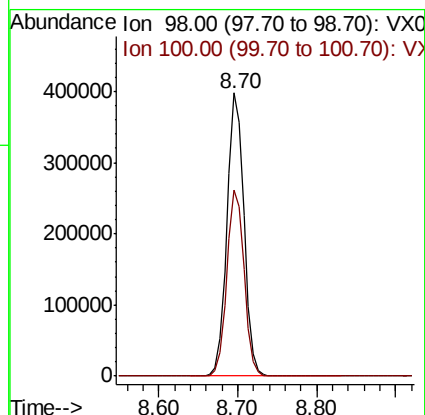
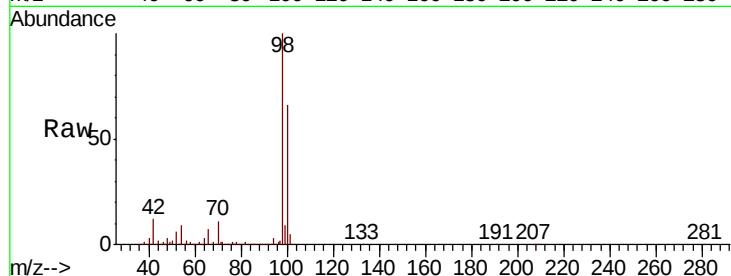
SA-DUP01-20200428

Tot Ion: 98 Resp: 595892

Ion Ratio Lower Upper

98 100

100 66.8 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 0.494 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VX016065.D

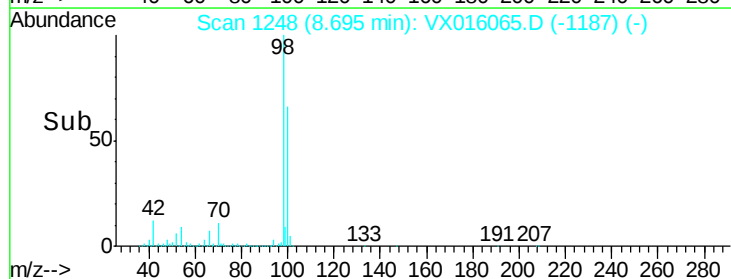
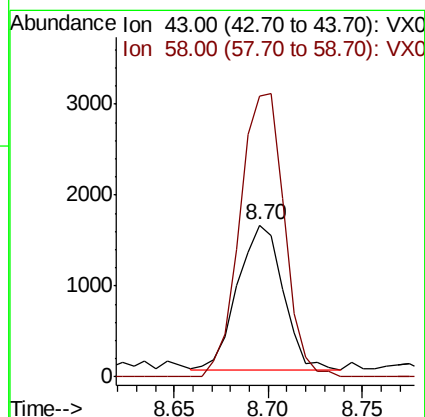
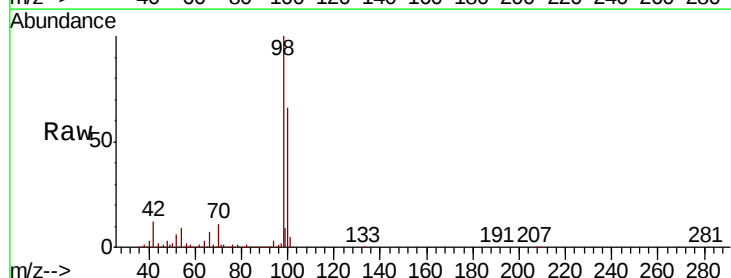
Acq: 05 May 2020 15:43

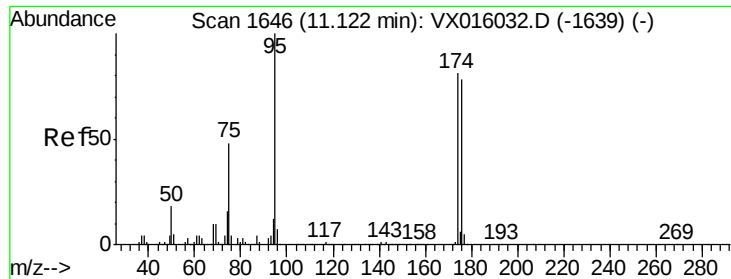
Tgt Ion: 43 Resp: 2646

Ion Ratio Lower Upper

43 100

58 192.1 33.0 49.4#





#62

4-Bromofluorobenzene

Concen: 53.643 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20200428

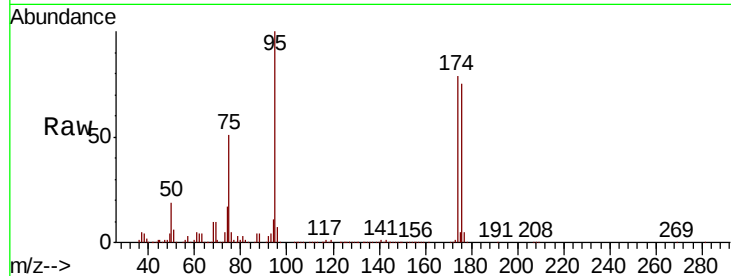
Tot Ion: 95 Resp: 239299

Ion Ratio Lower Upper

95 100

174 81.8 0.0 159.4

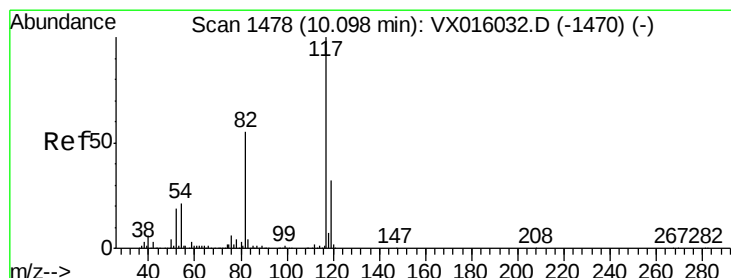
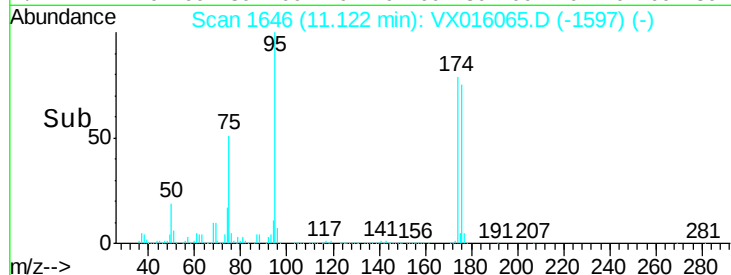
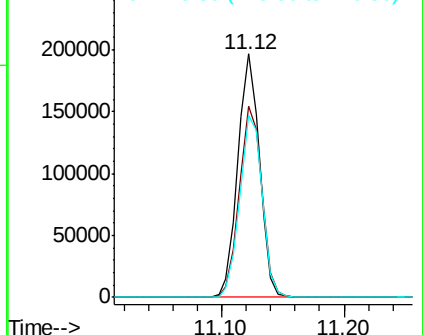
176 77.8 0.0 157.6



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: VX016065.D

Acq: 05 May 2020 15:43

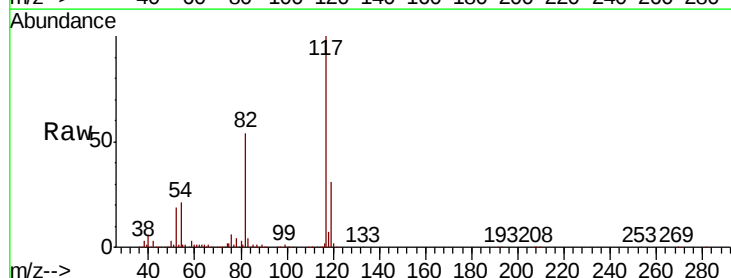
Tgt Ion: 117 Resp: 474281

Ion Ratio Lower Upper

117 100

82 54.3 44.4 66.6

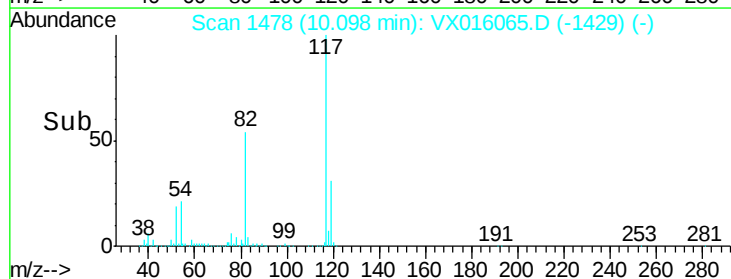
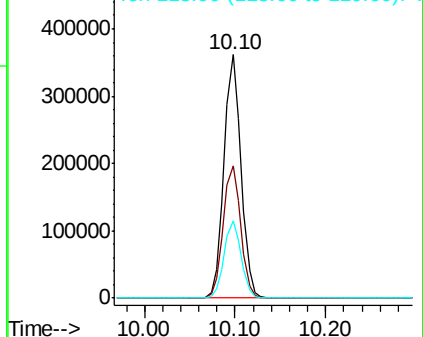
119 31.5 25.5 38.3

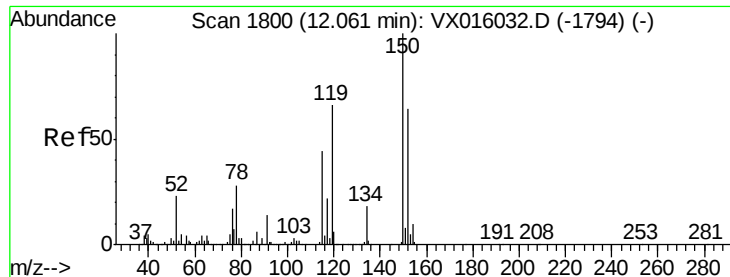


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20200428

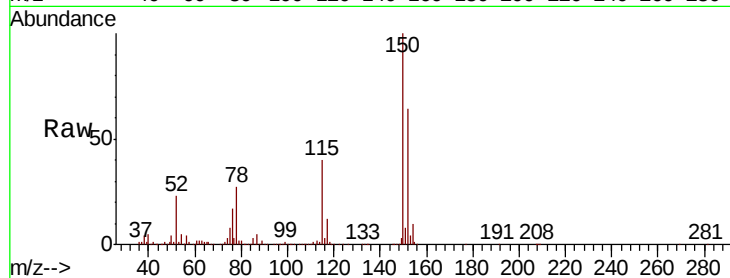
Tot Ion:152 Resp: 247417

Ion Ratio Lower Upper

152 100

115 59.0 41.3 124.1

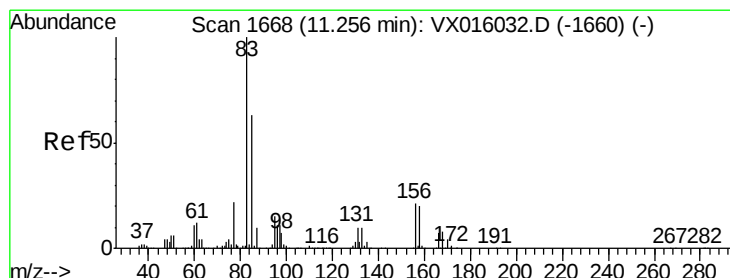
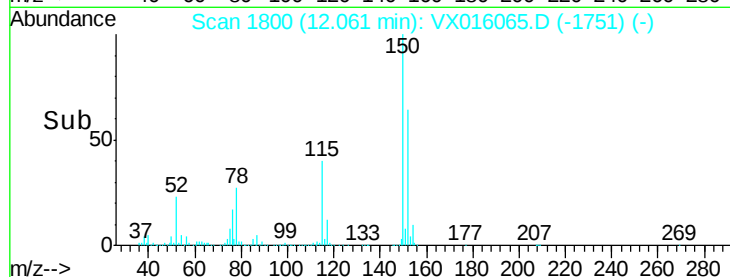
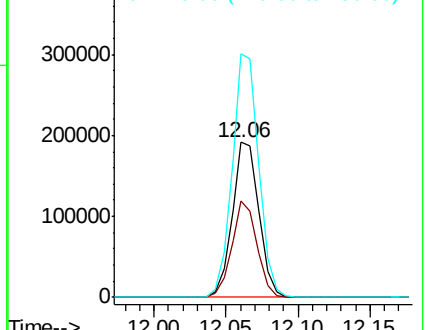
150 156.4 0.0 352.2



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: 4.816 ug/l

RT: 11.18 min Scan# 1655

Delta R.T. -0.08 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

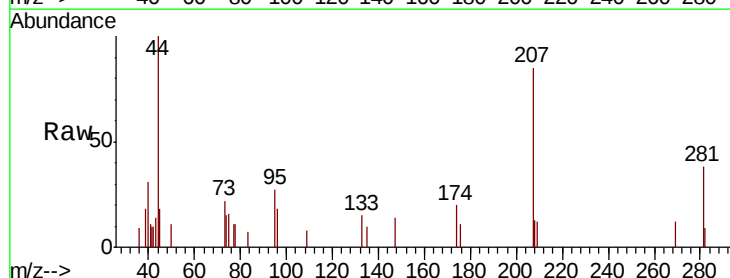
Tgt Ion: 83 Resp: 19

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

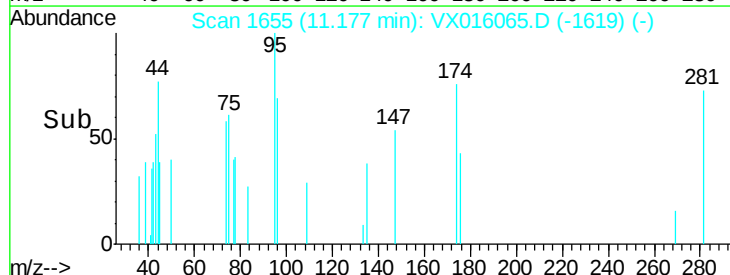
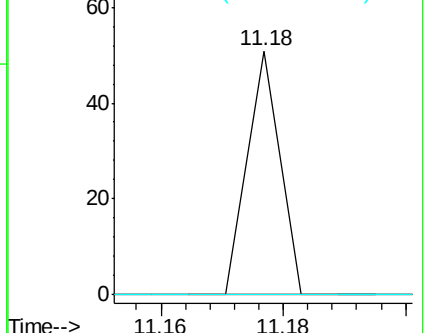
85 0.0 32.0 96.0#

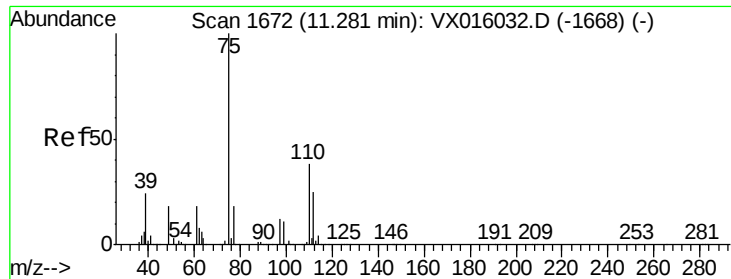


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.895 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

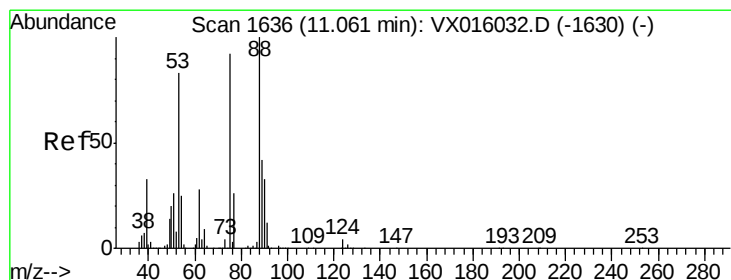
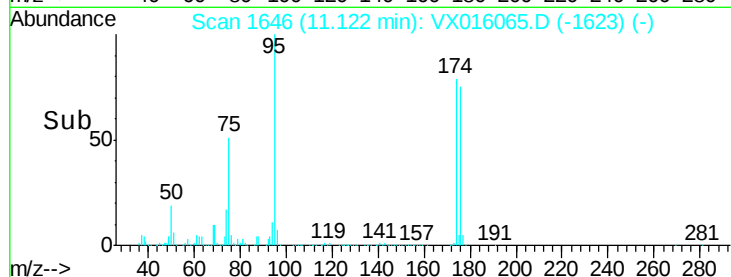
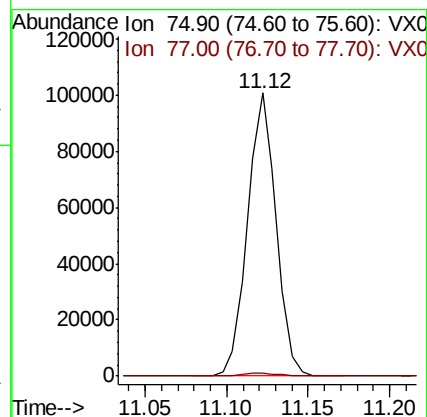
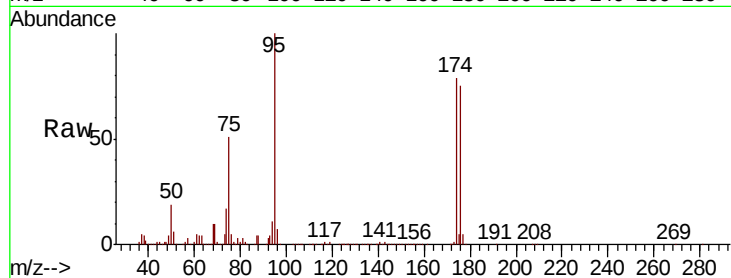
SA-DUP01-20200428

Tot Ion: 75 Resp: 122931

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 52.178 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

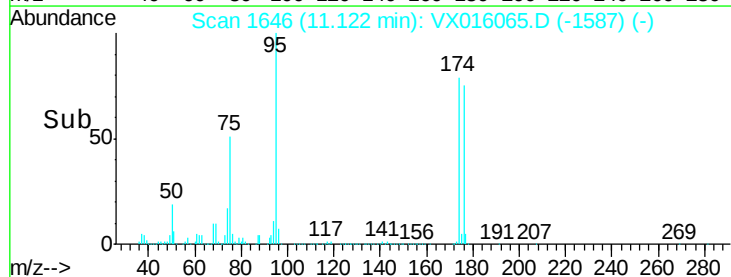
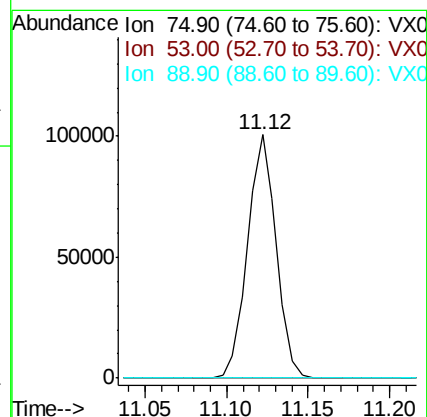
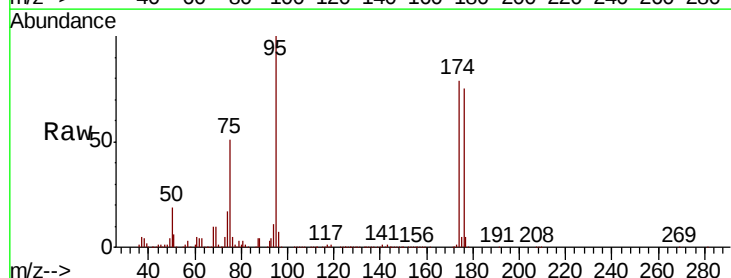
Tgt Ion: 75 Resp: 122931

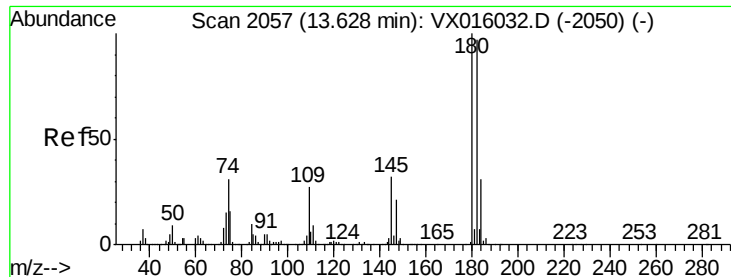
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#





#93

1,2,4-Trichlorobenzene

Concen: 0.205 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20200428

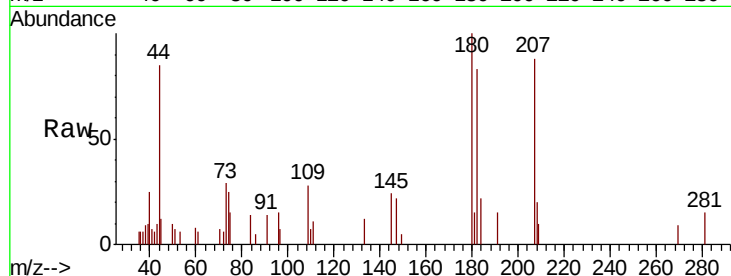
Tot Ion:180 Resp: 1221

Ion Ratio Lower Upper

180 100

182 93.0 48.7 146.1

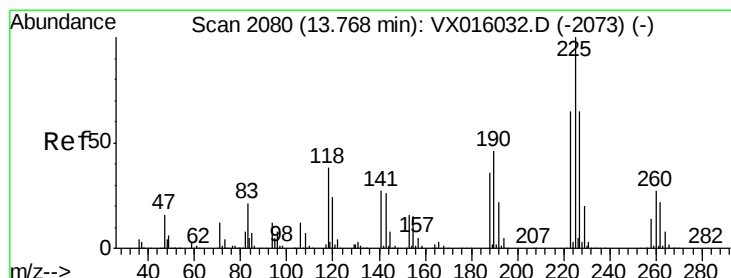
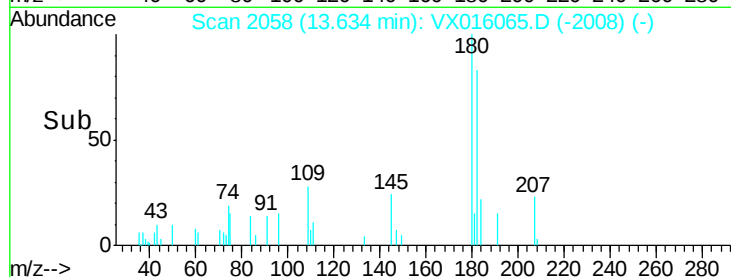
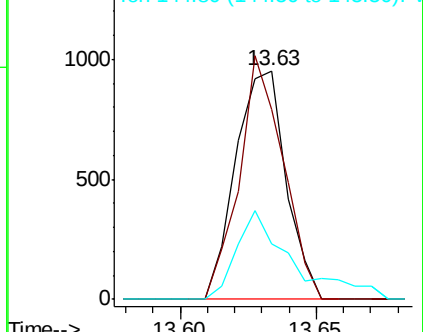
145 43.0 15.7 47.1



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



#94

Hexachlorobutadiene

Concen: 0.575 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016065.D

Acq: 05 May 2020 15:43

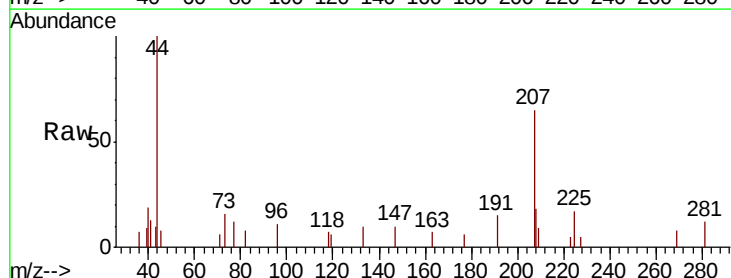
Tgt Ion:225 Resp: 134

Ion Ratio Lower Upper

225 100

223 57.5 32.3 96.9

227 33.6 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

