

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\
 Data File : VX016127.D
 Acq On : 08 May 2020 17:34
 Operator : JC/SP
 Sample : L2552-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 09 01:50:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

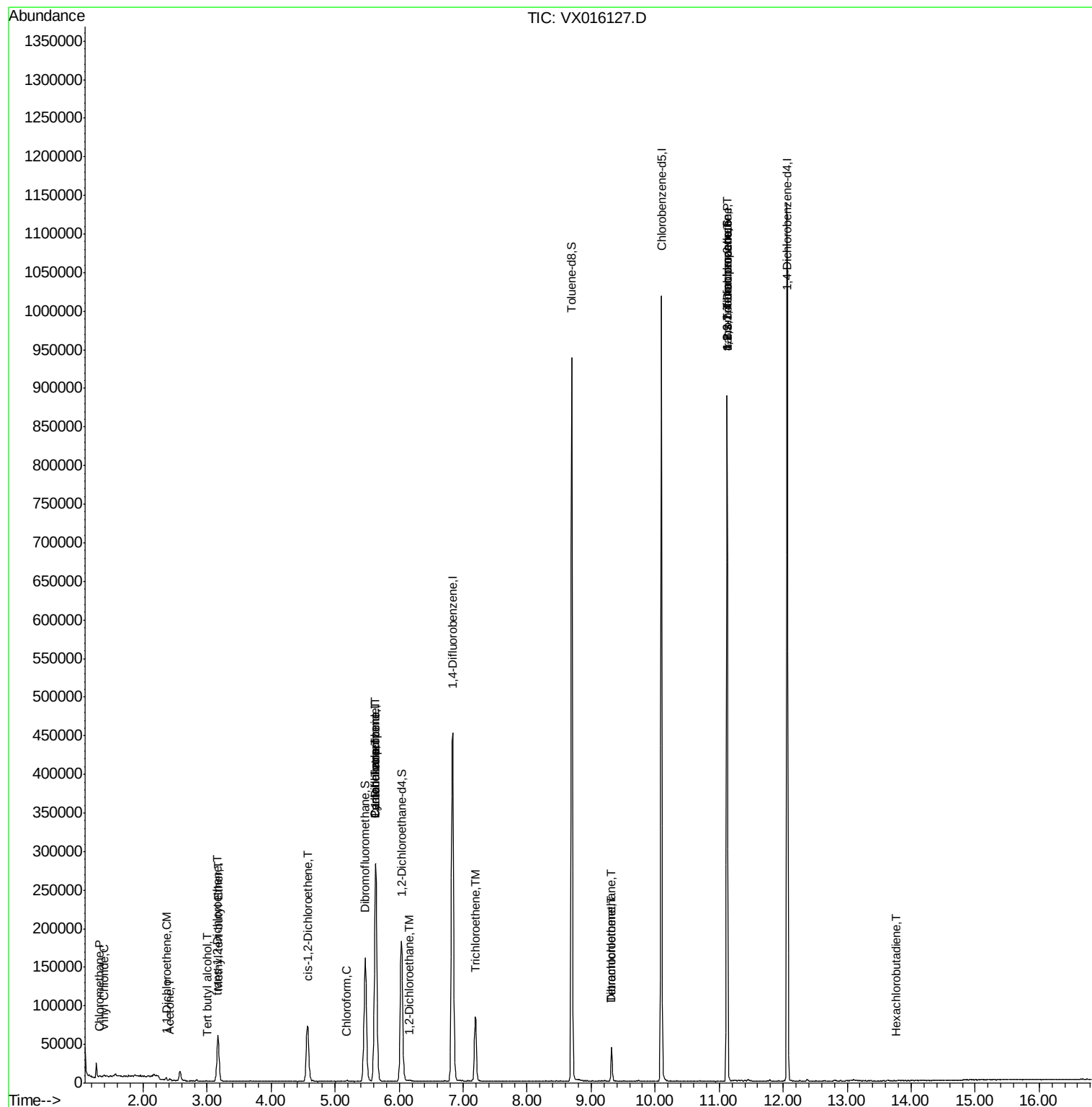
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	275711	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	460717	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	452971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	232619	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	174137	48.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.00%	
35) Dibromofluoromethane	5.47	113	136489	46.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.52%	
50) Toluene-d8	8.70	98	565928	50.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.64%	
62) 4-Bromofluorobenzene	11.12	95	228474	53.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.82%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.31	50	806	0.238	ug/l	89
4) Vinyl Chloride	1.39	62	1226	0.339	ug/l	99
11) Tert butyl alcohol	3.00	59	353	0.385	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	939	0.328	ug/l #	83
16) Acetone	2.42	43	2340	1.446	ug/l	95
17) Carbon Disulfide	2.55	76	1449	Below Cal	#	85
19) Methyl tert-butyl Ether	3.17	73	67458	6.828	ug/l	100
21) trans-1,2-Dichloroethene	3.15	96	1256	0.393	ug/l #	73
27) cis-1,2-Dichloroethene	4.57	96	47435	13.585	ug/l	89
30) Chloroform	5.18	83	1654	0.300	ug/l	95
31) Cyclohexane	5.63	56	5786	1.148	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20902	4.609	ug/l #	50
38) Carbon Tetrachloride	5.63	117	26994	5.856	ug/l #	13
42) 1,2-Dichloroethane	6.17	62	1123	0.235	ug/l	79
44) Trichloroethene	7.19	130	32884	6.976	ug/l	98
60) Dibromochloromethane	9.32	129	7644	2.133	ug/l #	11
64) Tetrachloroethene	9.32	164	8413	1.513	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.12	83	242	2.126	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	116174	22.008	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	116174	52.447	ug/l #	13
94) Hexachlorobutadiene	13.76	225	59	0.548	ug/l #	18

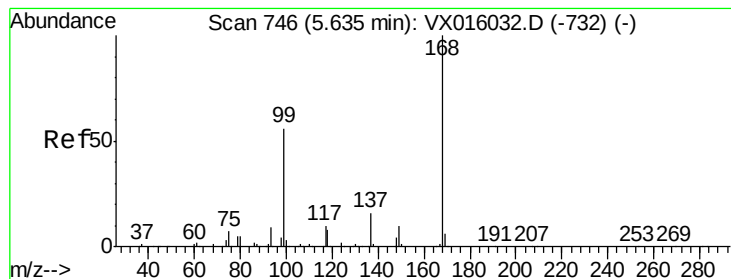
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 06 06:43:32 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: VX016127.D

Acq: 08 May 2020 17:34

Instrument :

MSVOA_X

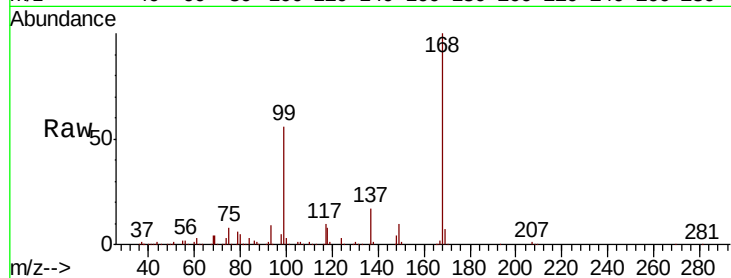
ClientSampleId :

Tot Ion:168 Resp: 275711

Ion Ratio Lower Upper

168 100

99 55.8 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

100000

80000

60000

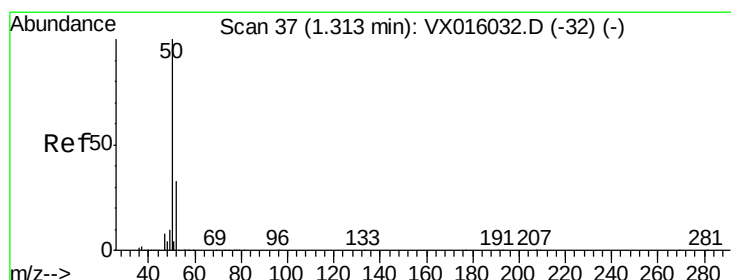
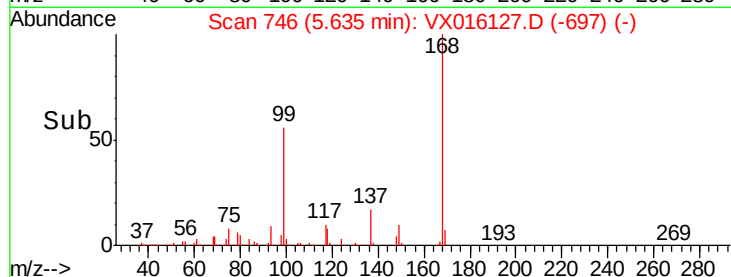
40000

20000

0

Time-->

5.50 5.60 5.70



#3

Chloromethane

Concen: 0.238 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016127.D

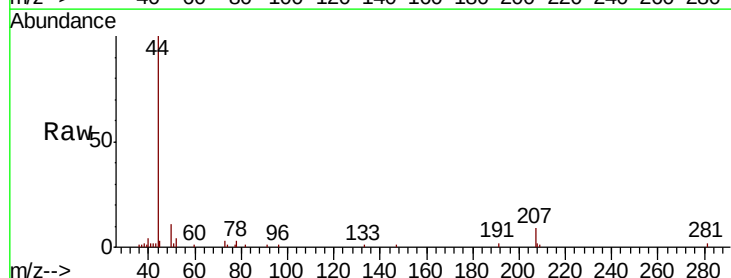
Acq: 08 May 2020 17:34

Tgt Ion: 50 Resp: 806

Ion Ratio Lower Upper

50 100

52 38.6 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

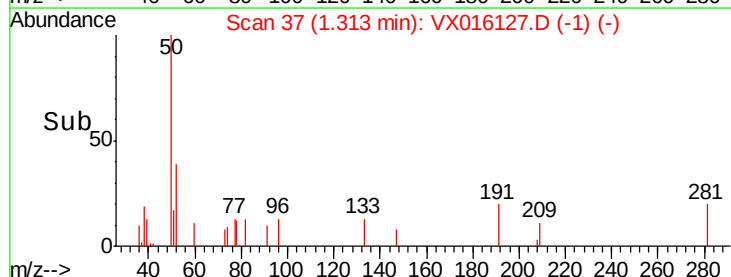
400

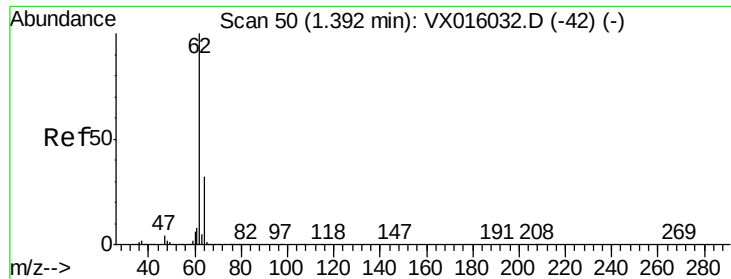
200

0

Time-->

1.30 1.35





#4

Vinyl Chloride

Concen: 0.339 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

Instrument :

MSVOA_X

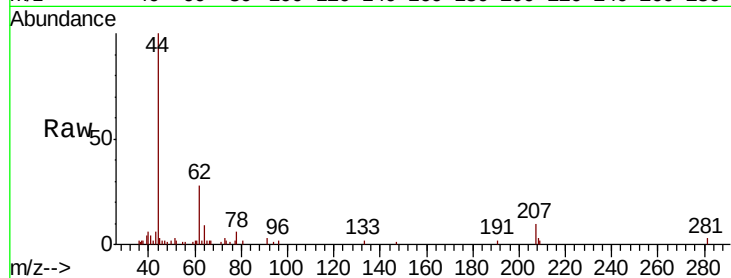
ClientSampled :

Tot Ion: 62 Resp: 1226

Ion Ratio Lower Upper

62 100

64 32.6 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

1500

1000

500

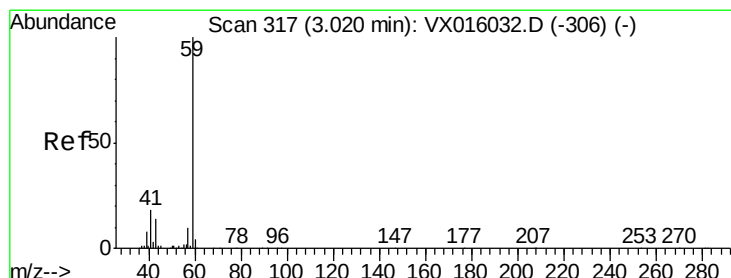
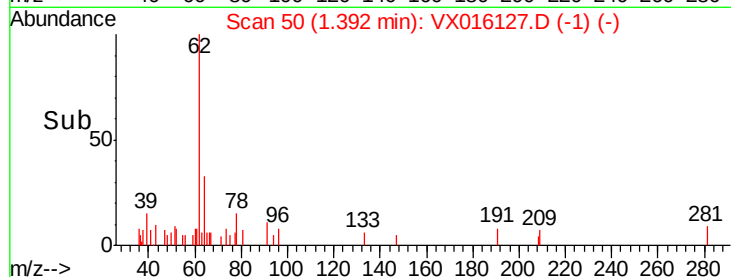
0

Time-->

1.35

1.40

1.45



#11

Tert butyl alcohol

Concen: 0.385 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016127.D

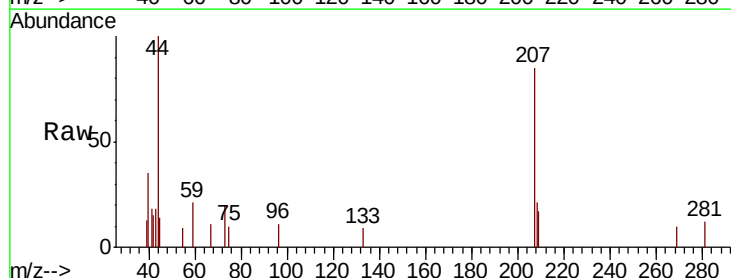
Acq: 08 May 2020 17:34

Tgt Ion: 59 Resp: 353

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

150

100

50

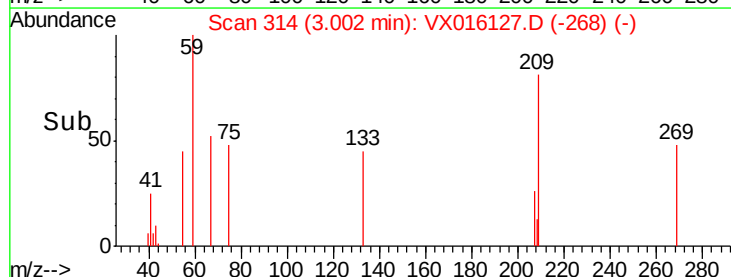
0

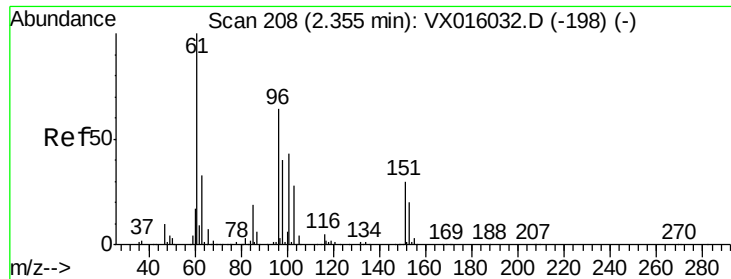
Time-->

2.95

3.00

3.05





#12

1,1-Dichloroethene

Concen: 0.328 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

Instrument :

MSVOA_X

ClientSampled :

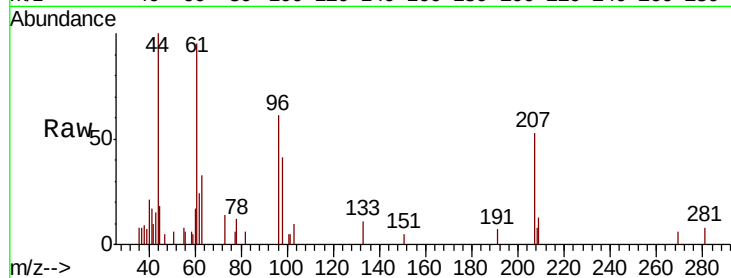
Tot Ion: 96 Resp: 939

Ion Ratio Lower Upper

96 100

61 177.4 124.8 187.2

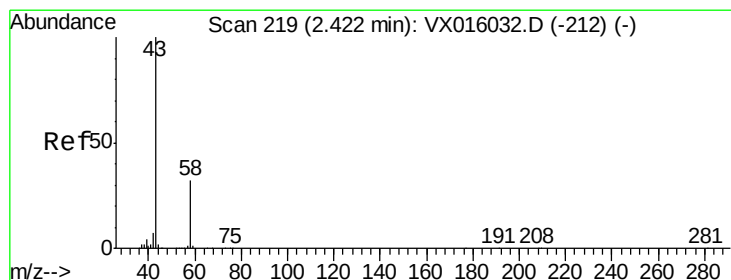
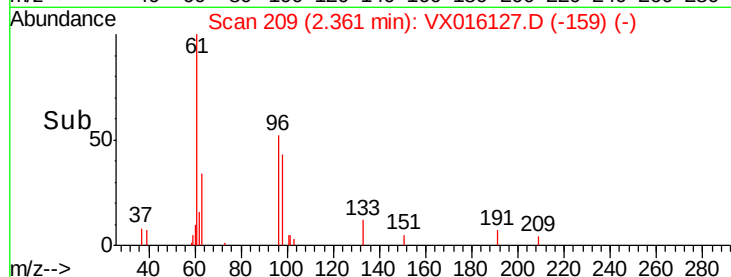
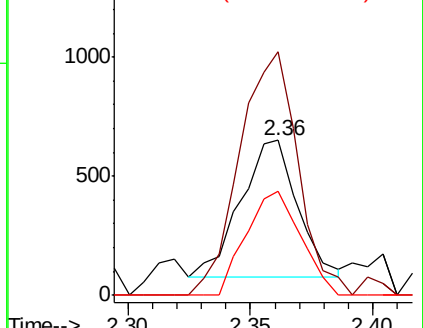
98 75.7 49.7 74.5#



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



#16

Acetone

Concen: 1.446 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016127.D

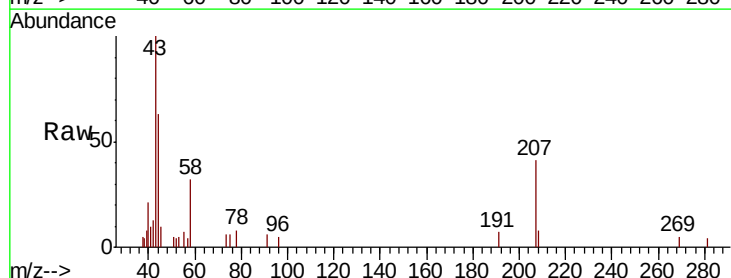
Acq: 08 May 2020 17:34

Tgt Ion: 43 Resp: 2340

Ion Ratio Lower Upper

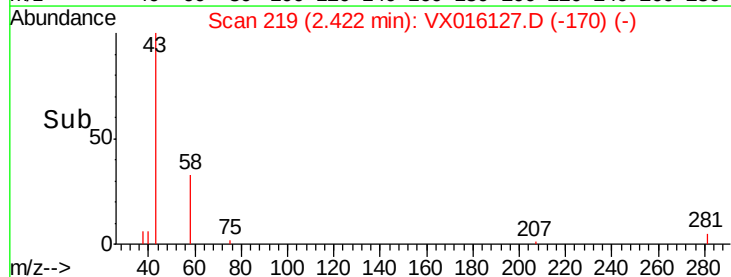
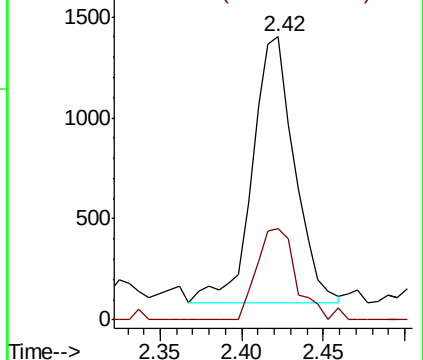
43 100

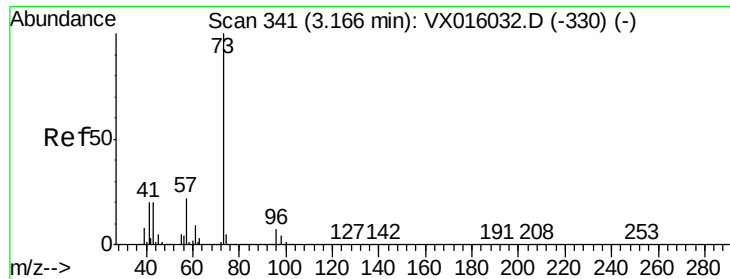
58 34.3 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

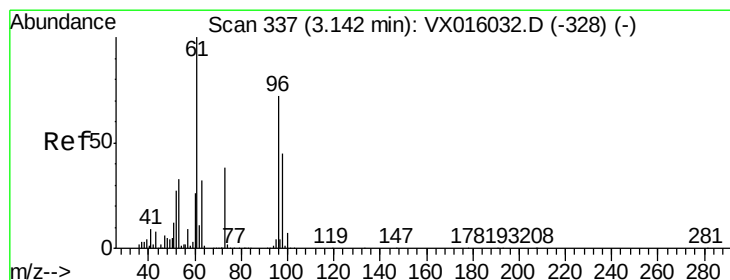
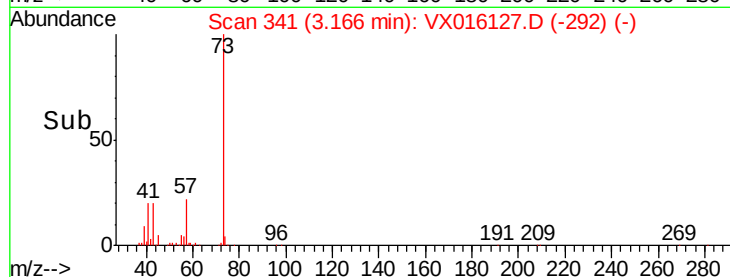
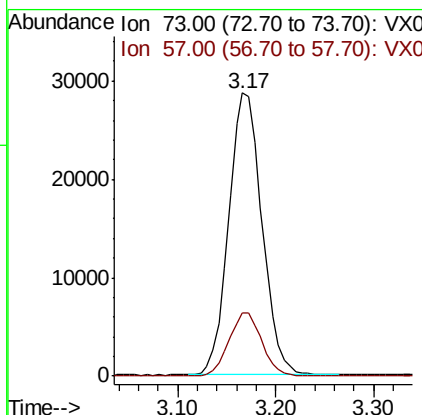
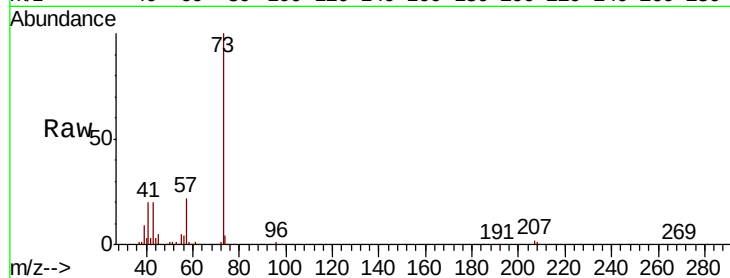




#19
Methyl tert-butyl Ether
Concen: 6.828 ug/l
RT: 3.17 min Scan# 341
Delta R.T. -0.00 min
Lab File: VX016127.D
Acq: 08 May 2020 17:34

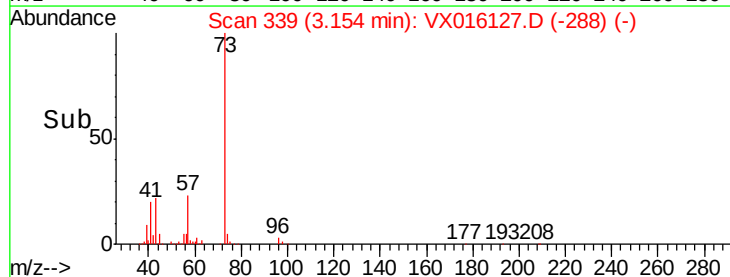
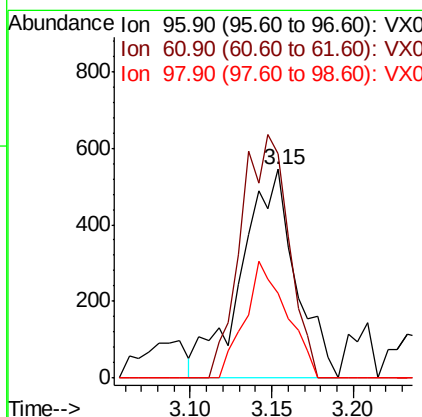
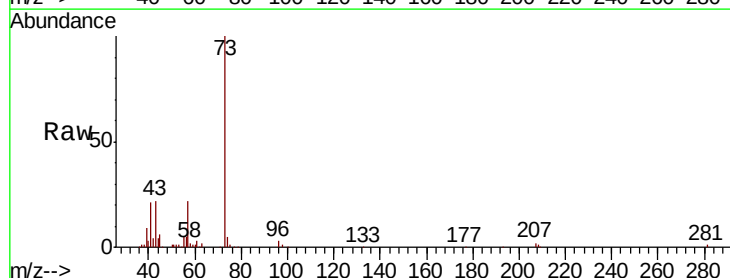
Instrument :
MSVOA_X
ClientSampleId :

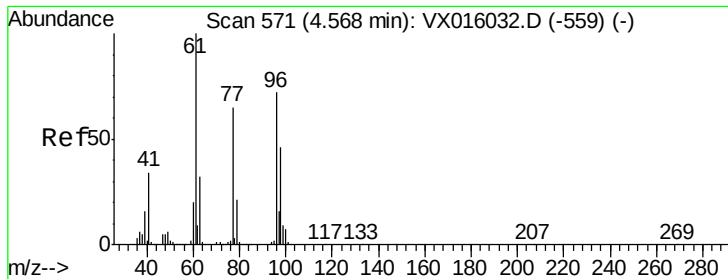
Tot Ion: 73 Resp: 67458
Ion Ratio Lower Upper
73 100
57 22.3 17.8 26.6



#21
trans-1,2-Dichloroethene
Concen: 0.393 ug/l
RT: 3.15 min Scan# 339
Delta R.T. 0.01 min
Lab File: VX016127.D
Acq: 08 May 2020 17:34

Tgt Ion: 96 Resp: 1256
Ion Ratio Lower Upper
96 100
61 107.2 111.2 166.8#
98 40.9 50.2 75.4#



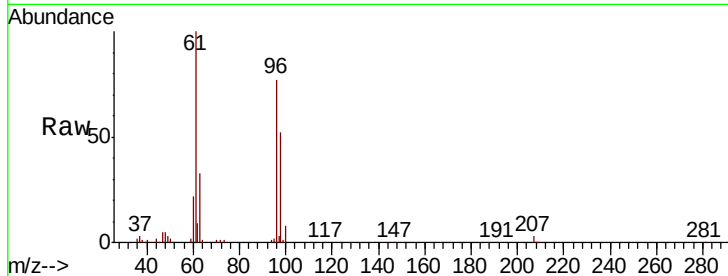


#27

cis-1,2-Dichloroethene
 Concen: 13.585 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016127.D
 Acq: 08 May 2020 17:34

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	128.4	0.0	296.2
98	63.4	0.0	129.4

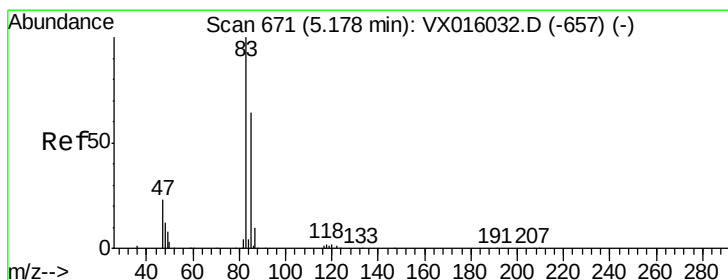
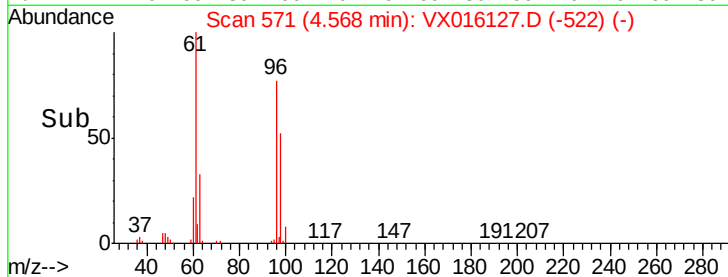
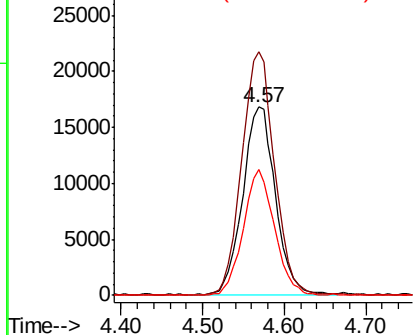


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

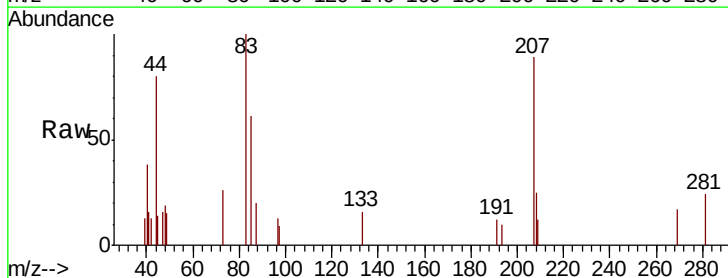
Ion 97.90 (97.60 to 98.60): VX0



#30

Chloroform
 Concen: 0.300 ug/l
 RT: 5.18 min Scan# 671
 Delta R.T. -0.00 min
 Lab File: VX016127.D
 Acq: 08 May 2020 17:34

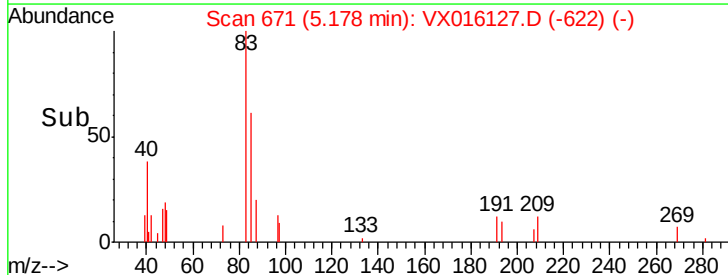
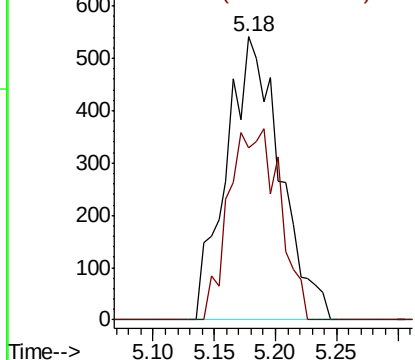
Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.6	51.6	77.4

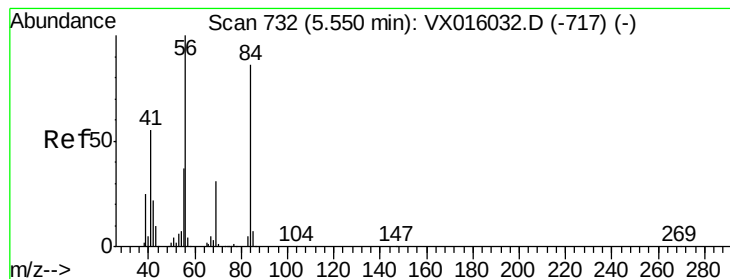


Abundance

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.148 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

Instrument :

MSVOA_X

ClientSampled :

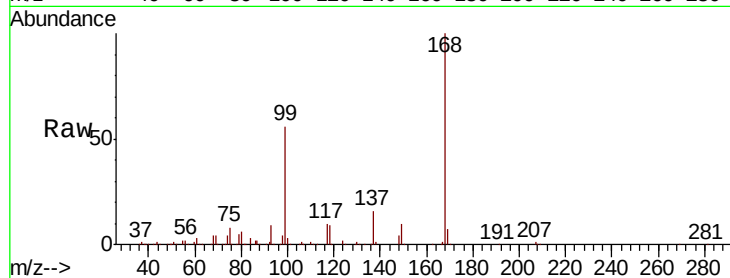
Tot Ion: 56 Resp: 5786

Ion Ratio Lower Upper

56 100

69 171.7 25.0 37.6#

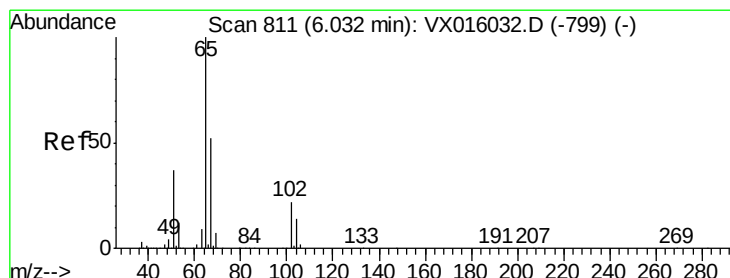
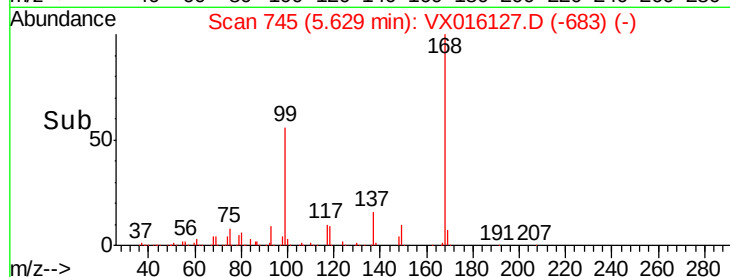
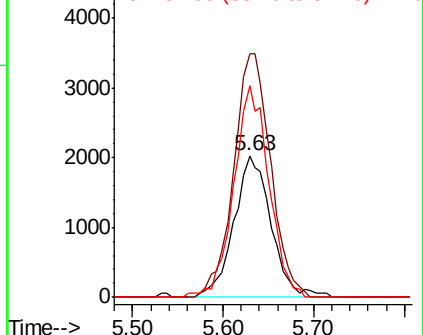
84 149.0 69.0 103.6#



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: 47.997 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016127.D

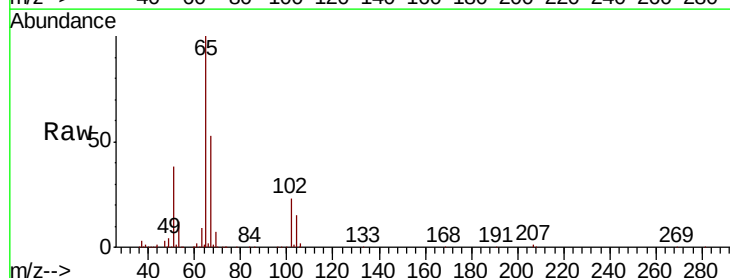
Acq: 08 May 2020 17:34

Tgt Ion: 65 Resp: 174137

Ion Ratio Lower Upper

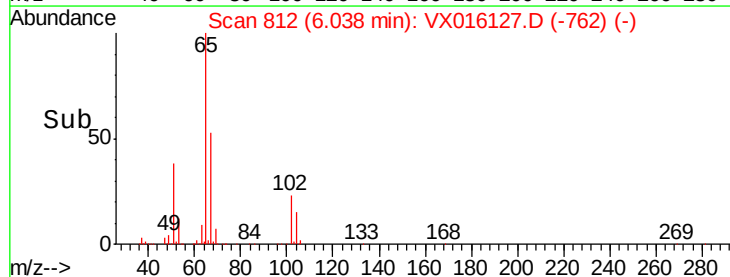
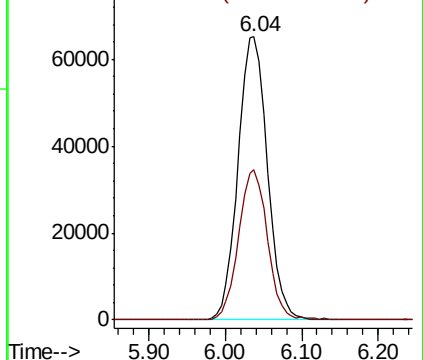
65 100

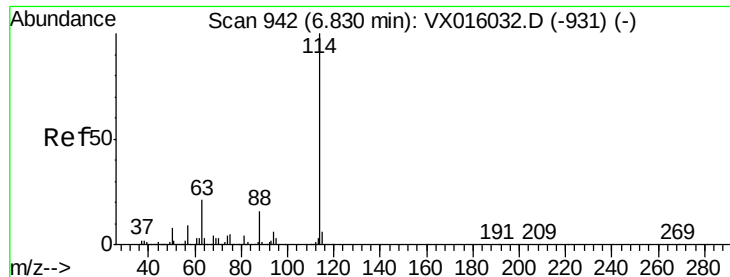
67 52.0 0.0 104.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

Instrument :

MSVOA_X

ClientSampled :

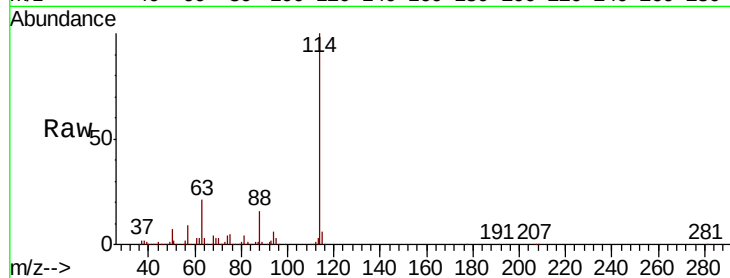
Tot Ion:114 Resp: 460717

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

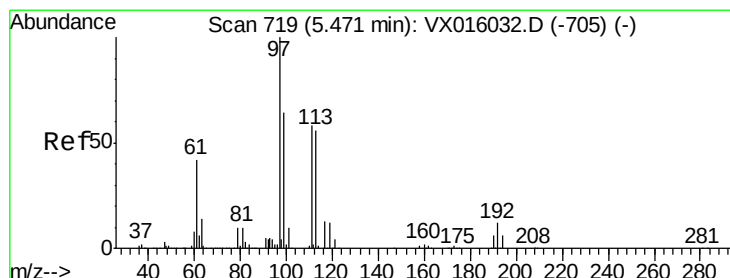
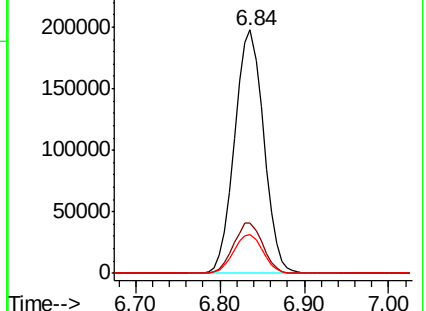
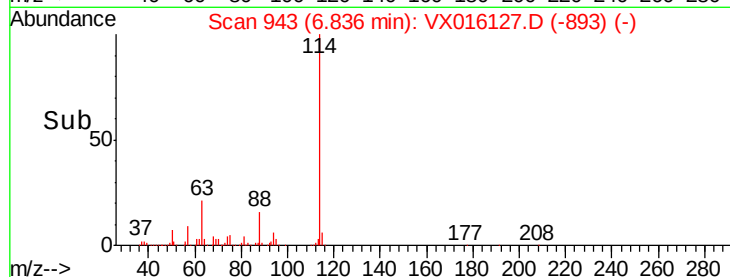
88 15.8 0.0 31.4



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



#35

Dibromofluoromethane

Concen: 46.761 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

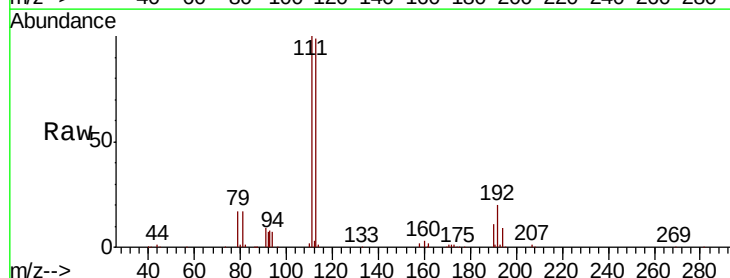
Tgt Ion:113 Resp: 136489

Ion Ratio Lower Upper

113 100

111 102.9 81.6 122.4

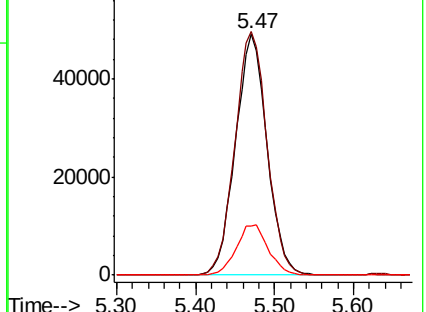
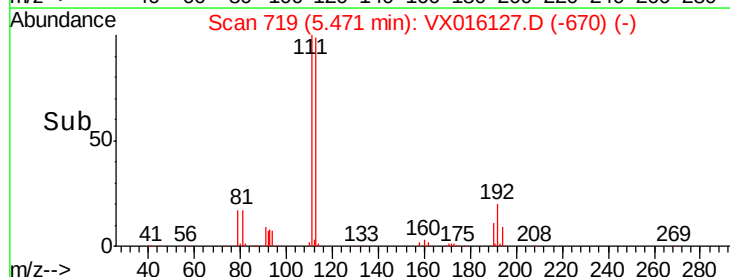
192 21.2 17.0 25.4

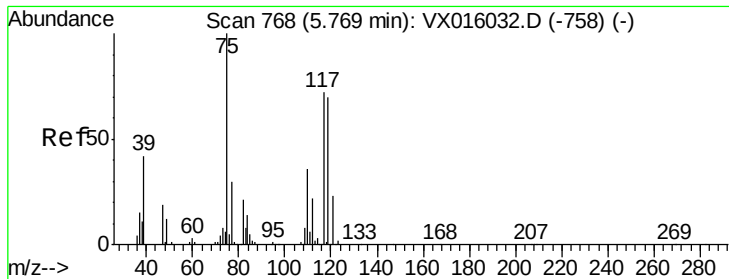


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

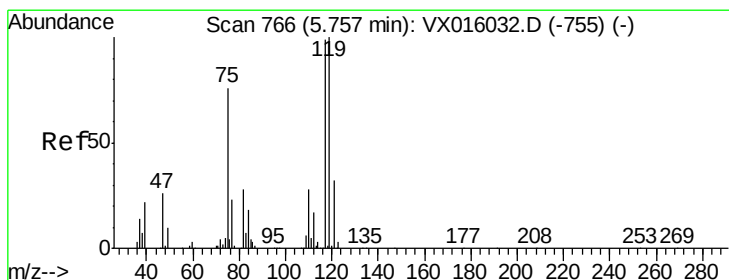
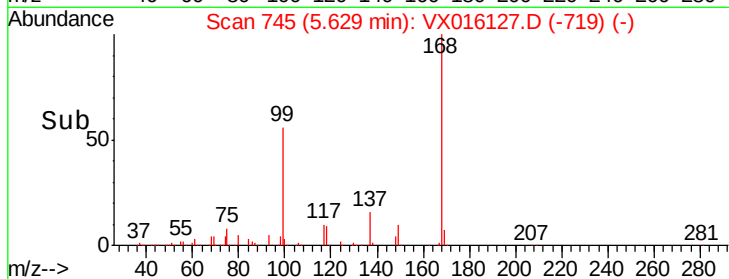
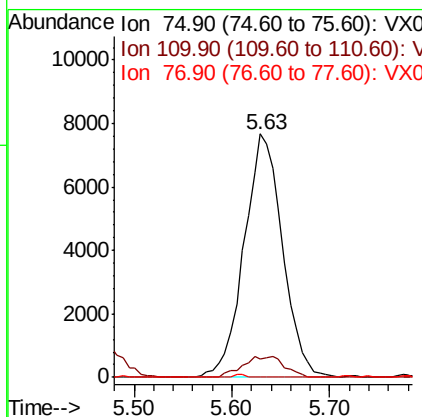
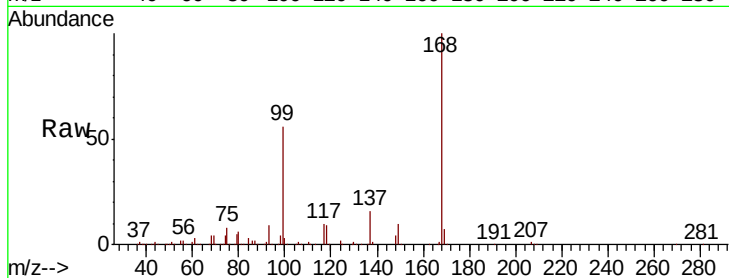




#36
 1,1-Dichloropropene
 Concen: 4.609 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016127.D
 Acq: 08 May 2020 17:34

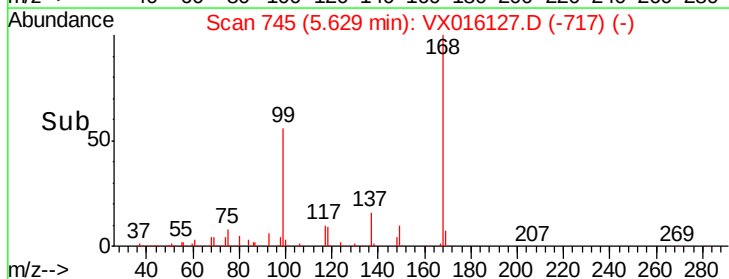
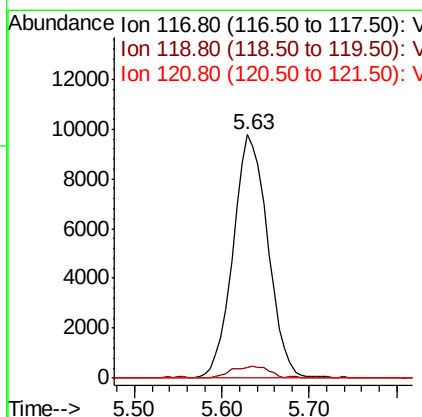
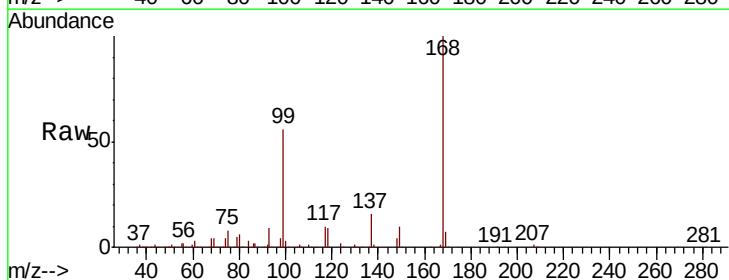
Instrument :
 MSVOA_X
 ClientSampled :

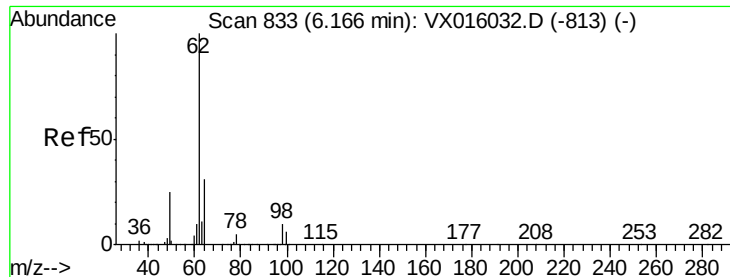
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.1	54.1#
77	0.3	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.856 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX016127.D
 Acq: 08 May 2020 17:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	80.3	120.5#
121	0.0	25.7	38.5#





#42

1,2-Dichloroethane

Concen: 0.235 ug/l

RT: 6.17 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

Instrument :

MSVOA_X

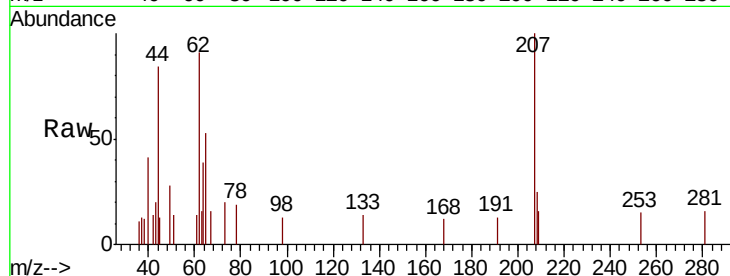
ClientSampled :

Tot Ion: 62 Resp: 1123

Ion Ratio Lower Upper

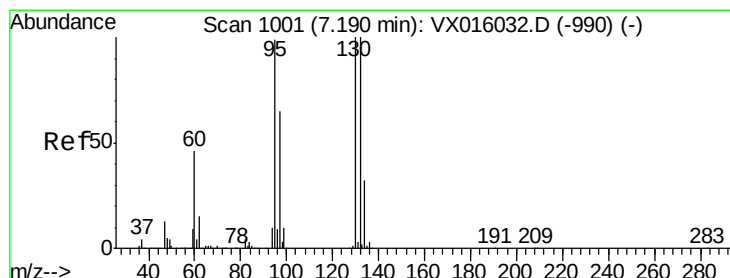
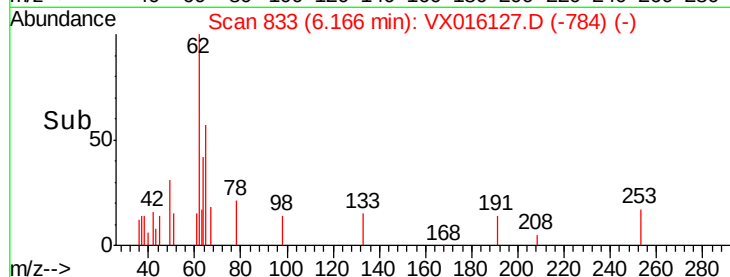
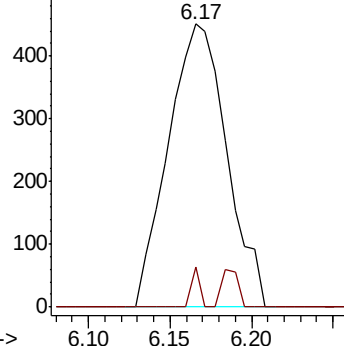
62 100

98 2.0 0.0 19.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#44

Trichloroethene

Concen: 6.976 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016127.D

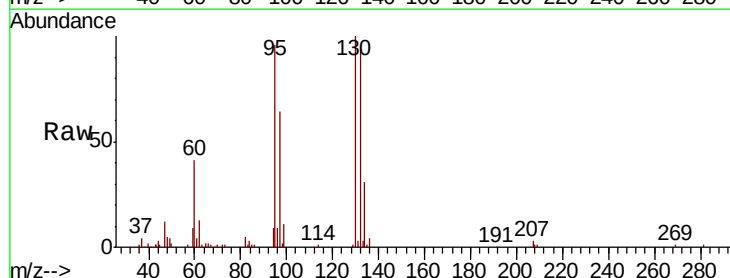
Acq: 08 May 2020 17:34

Tgt Ion:130 Resp: 32884

Ion Ratio Lower Upper

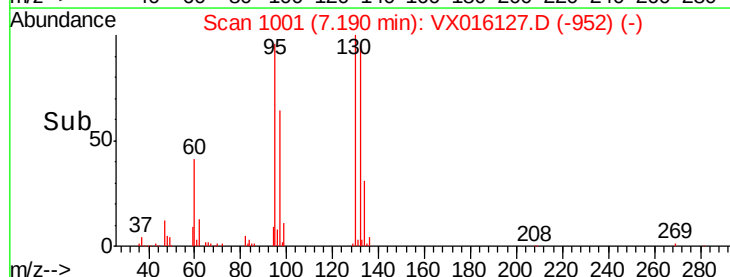
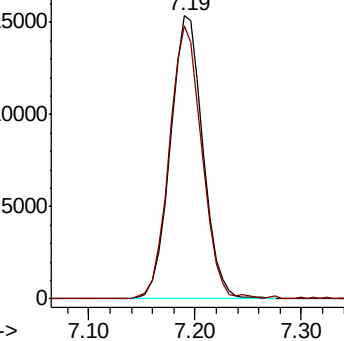
130 100

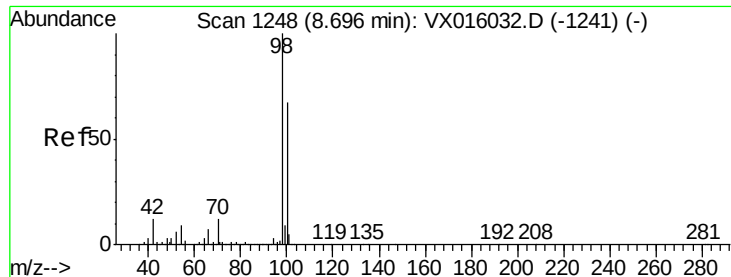
95 96.4 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.320 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

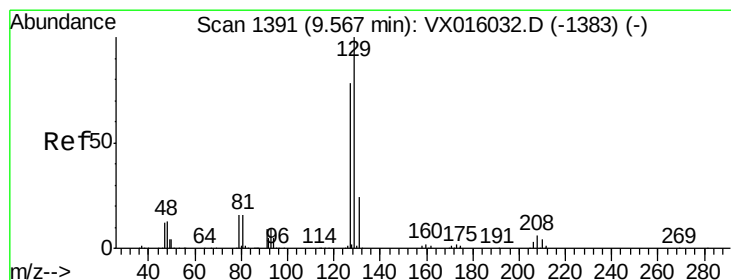
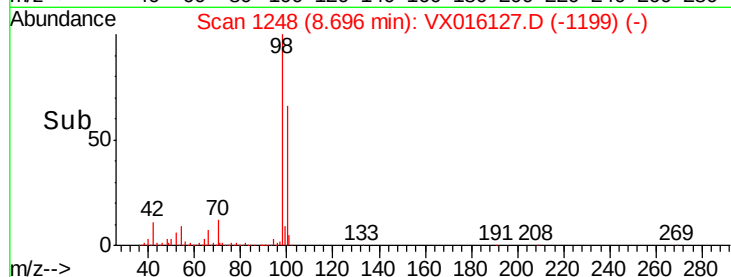
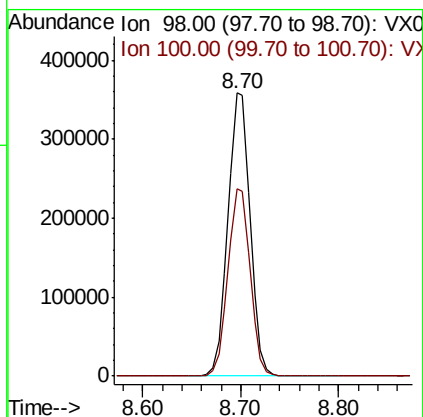
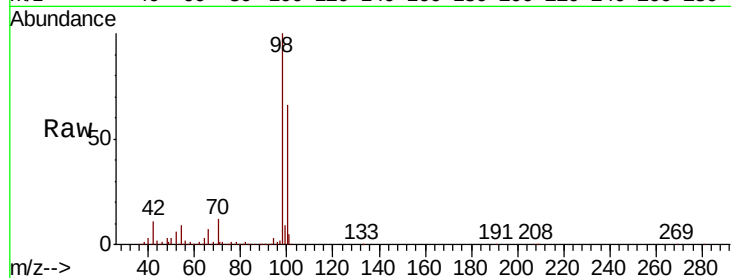
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 565928

Ion Ratio Lower Upper

98 100

100 66.1 53.7 80.5



#60

Dibromochloromethane

Concen: 2.133 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016127.D

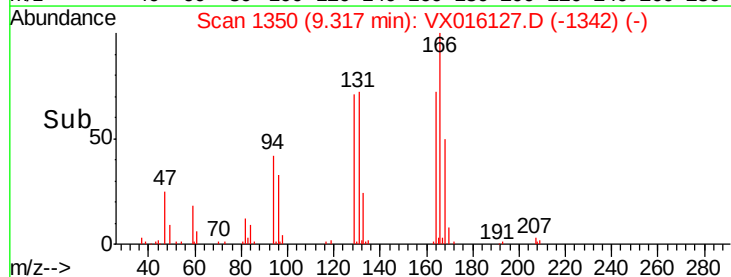
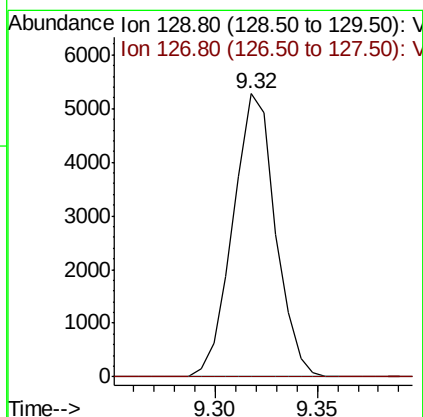
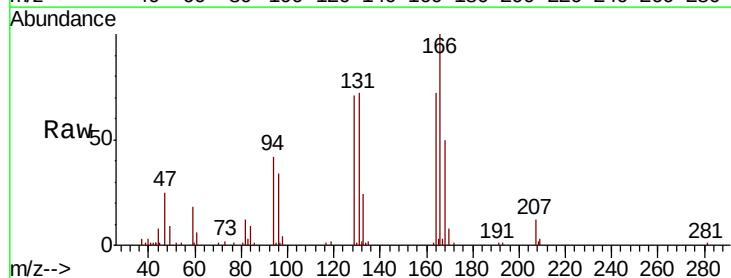
Acq: 08 May 2020 17:34

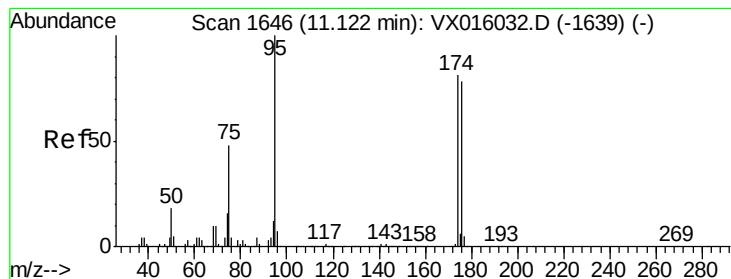
Tgt Ion: 129 Resp: 7644

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 53.411 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

Instrument :

MSVOA_X

ClientSampled :

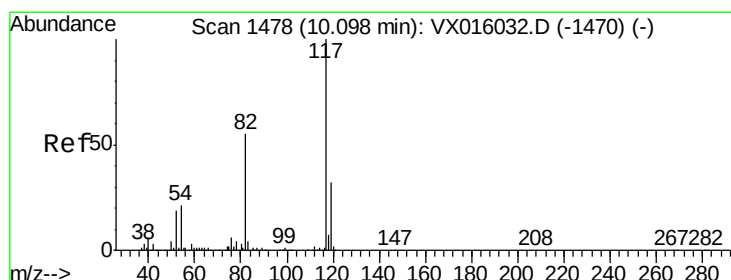
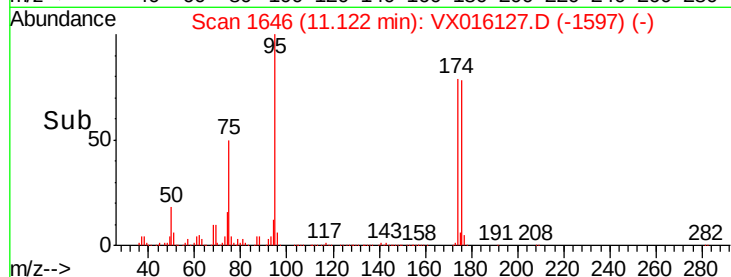
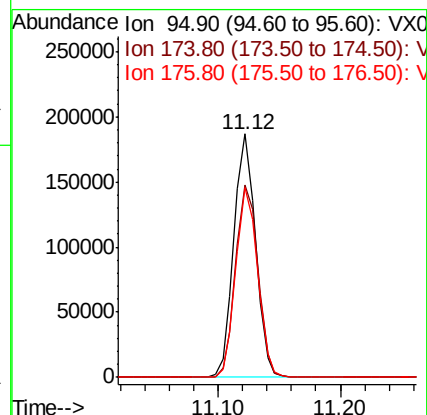
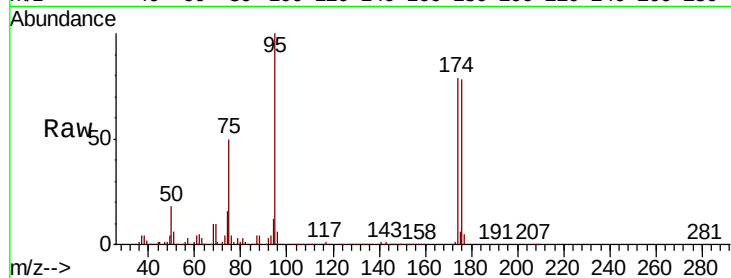
Tot Ion: 95 Resp: 228474

Ion Ratio Lower Upper

95 100

174 81.5 0.0 159.4

176 78.6 0.0 157.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

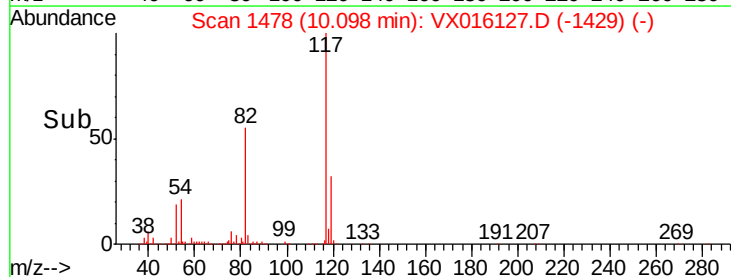
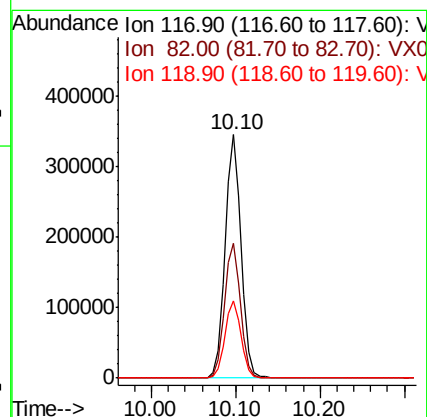
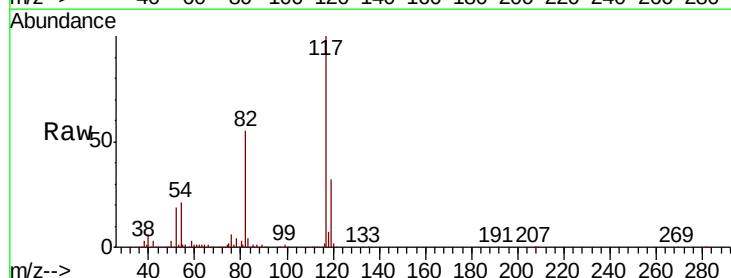
Tgt Ion: 117 Resp: 452971

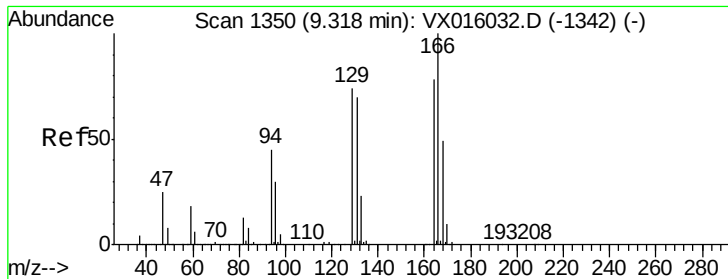
Ion Ratio Lower Upper

117 100

82 55.4 44.4 66.6

119 32.0 25.5 38.3





#64

Tetrachloroethene

Concen: 1.513 ug/l

RT: 9.32 min Scan# 1351

Delta R.T. 0.01 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:164 Resp: 8413

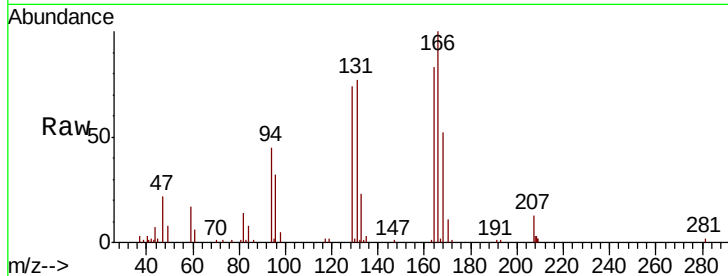
Ion Ratio Lower Upper

164 100

166 120.1 102.9 154.3

129 88.5 76.1 114.1

131 92.7 71.9 107.9

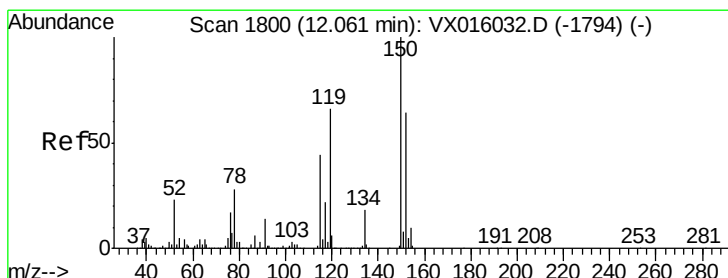
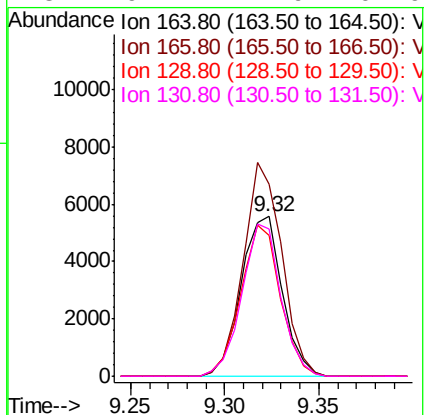
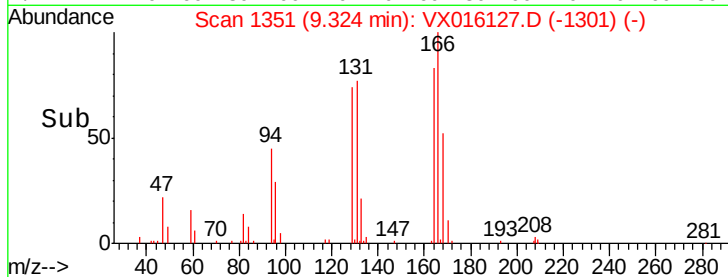


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX016127.D

Acq: 08 May 2020 17:34

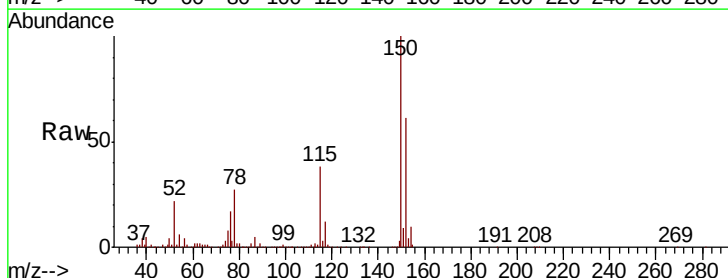
Tgt Ion:152 Resp: 232619

Ion Ratio Lower Upper

152 100

115 58.7 41.3 124.1

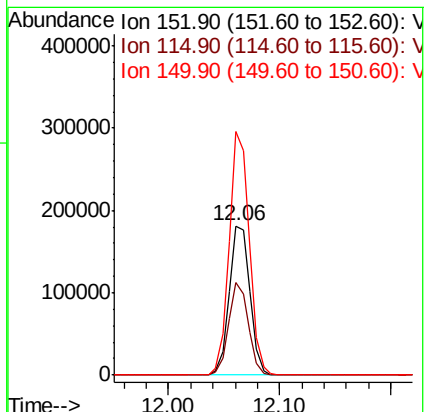
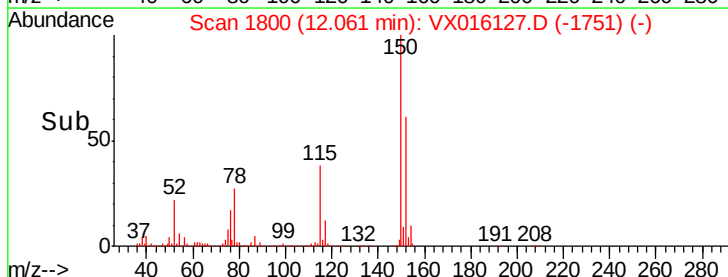
150 157.5 0.0 352.2

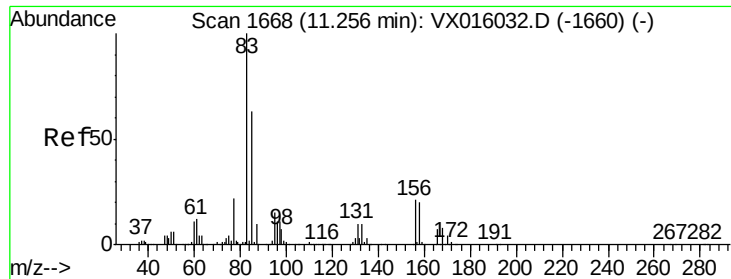


Abundance Ion 151.90 (151.60 to 152.60): V

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: 2.126 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.14 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

Instrument :

MSVOA_X

ClientSampleId :

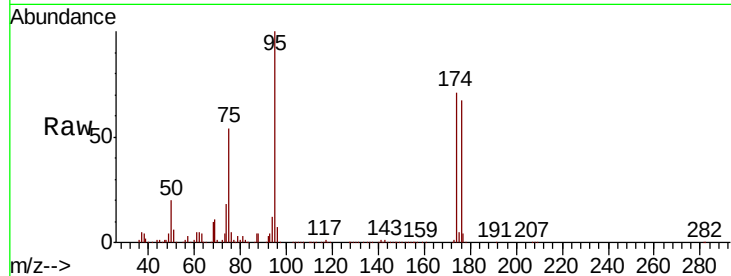
Tot Ion: 83 Resp: 242

Ion Ratio Lower Upper

83 100

131 151.7 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

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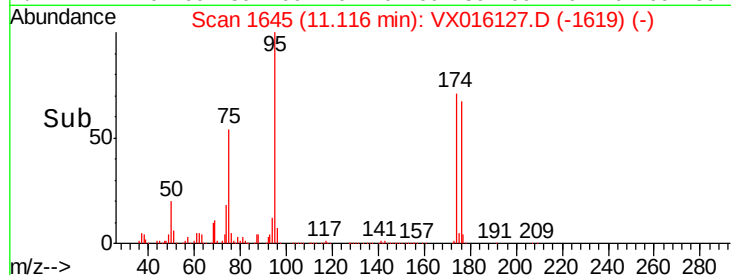
11.12

11.12

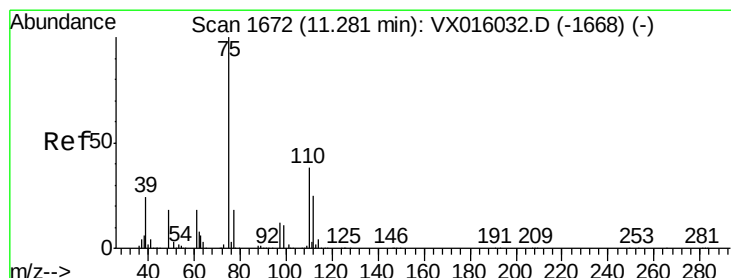
11.12

11.12

11.12



Time-->



#76

1,2,3-Trichloropropane

Concen: 22.008 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016127.D

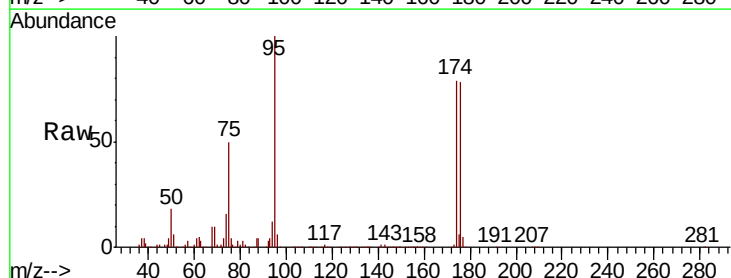
Acq: 08 May 2020 17:34

Tgt Ion: 75 Resp: 116174

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

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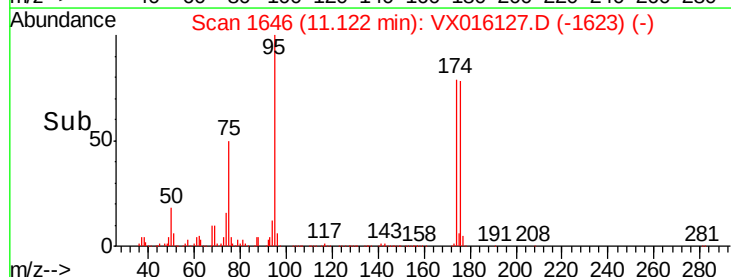
11.12

11.12

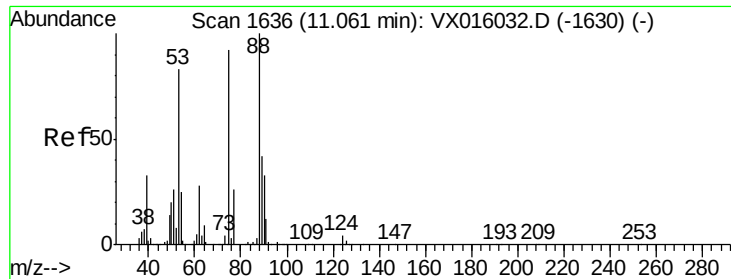
11.12

11.12

11.12



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 52.447 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

Instrument :

MSVOA_X

ClientSampleId :

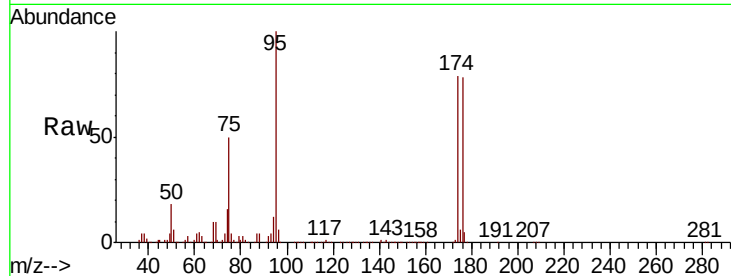
Tot Ion: 75 Resp: 116174

Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

89 0.0 36.7 55.1#

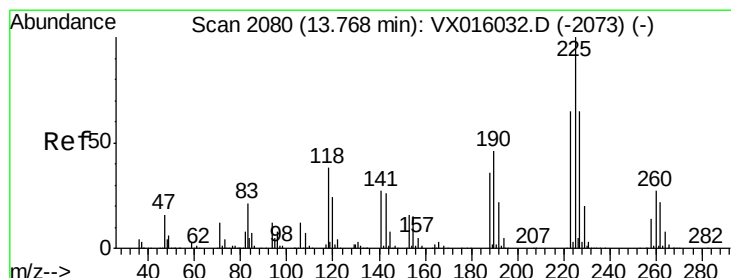
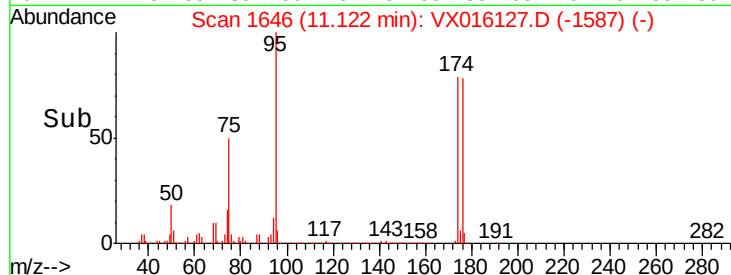
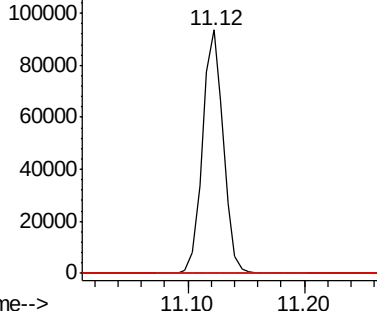


Abundance

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



#94

Hexachlorobutadiene

Concen: 0.548 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016127.D

Acq: 08 May 2020 17:34

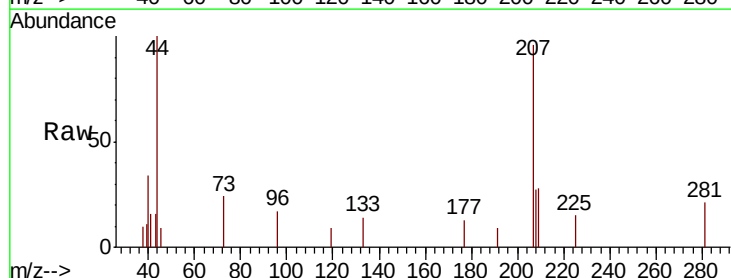
Tgt Ion: 225 Resp: 59

Ion Ratio Lower Upper

225 100

223 0.0 32.3 96.9#

227 0.0 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

