

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX060520\
 Data File : VX016619.D
 Acq On : 05 Jun 2020 18:11
 Operator : JC/SP
 Sample : L2894-18
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW003-200602

Quant Time: Jun 06 06:02:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	218061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	345135	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	347221	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	173529	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	129148	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
35) Dibromofluoromethane	5.47	113	106344	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
50) Toluene-d8	8.70	98	422727	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	11.12	95	167572	52.43	ug/l	0.00
Spiked Amount			Recovery	=	104.86%	

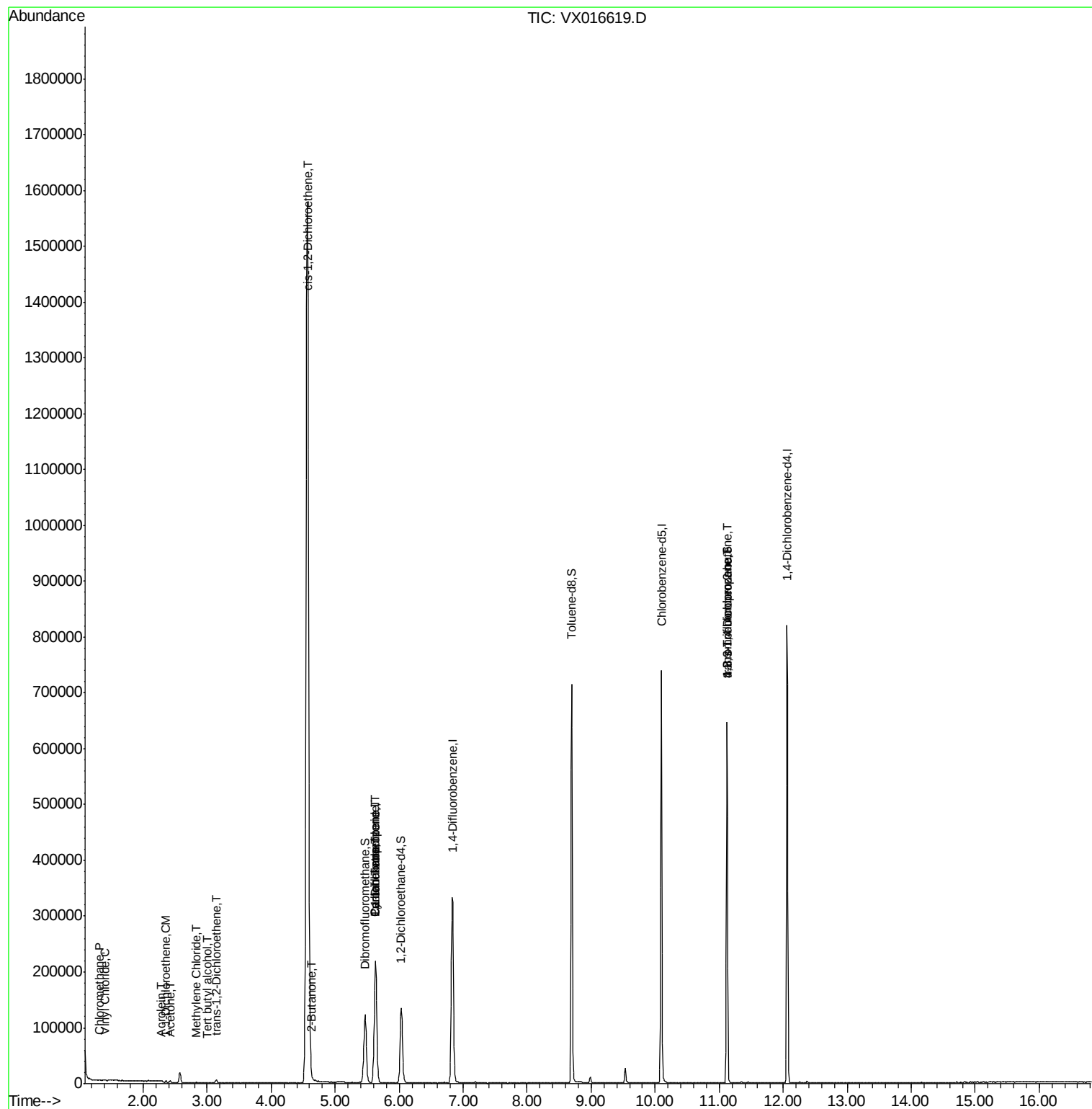
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1001	0.39	ug/l	96
4) Vinyl Chloride	1.39	62	987	0.36	ug/l	98
11) Tert butyl alcohol	3.01	59	465	0.67	ug/l #	86
12) 1,1-Dichloroethene	2.36	96	1297	0.62	ug/l #	71
13) Acrolein	2.28	56	138	0.47	ug/l #	1
16) Acetone	2.42	43	2947	2.48	ug/l	100
20) Methylene Chloride	2.84	84	541	0.22	ug/l #	76
21) trans-1,2-Dichloroethene	3.15	96	2593	1.12	ug/l	90
25) 2-Butanone	4.64	43	430	0.21	ug/l #	67
27) cis-1,2-Dichloroethene	4.57	96	1061201	395.24	ug/l	89
31) Cyclohexane	5.64	56	3838	1.02	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	15484	4.74	ug/l #	51
38) Carbon Tetrachloride	5.64	117	20250	5.90	ug/l #	16
76) 1,2,3-Trichloropropane	11.12	75	81324	21.32	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	81324	52.45	ug/l #	14

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

Instrument :

MSVOA_X

ClientSampleId :

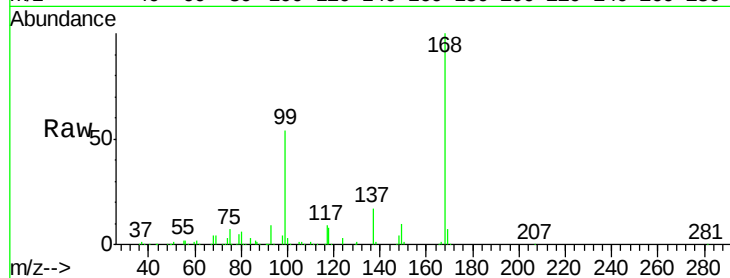
LF012MW003-200602

Tgt Ion:168 Resp: 218061

Ion Ratio Lower Upper

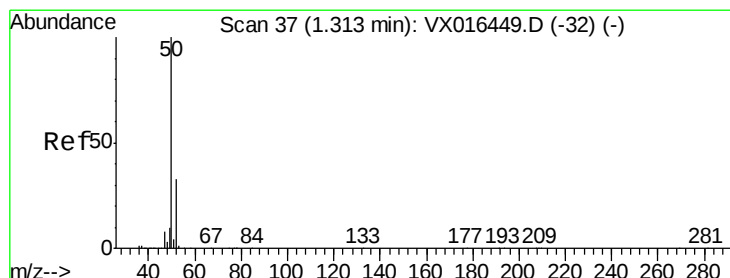
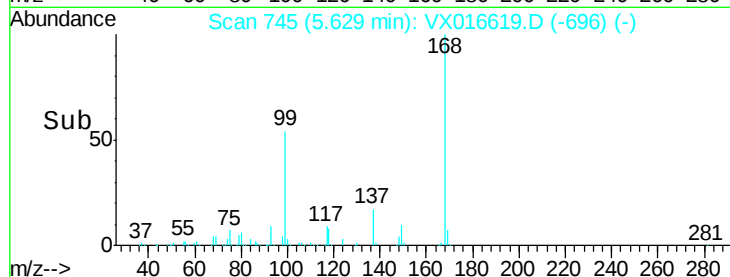
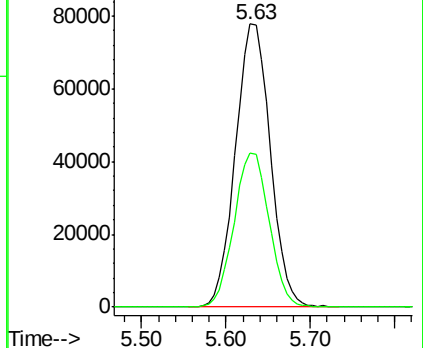
168 100

99 54.3 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.39 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016619.D

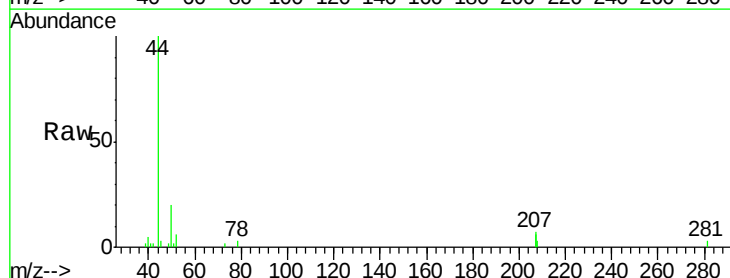
Acq: 05 Jun 2020 18:11

Tgt Ion: 50 Resp: 1001

Ion Ratio Lower Upper

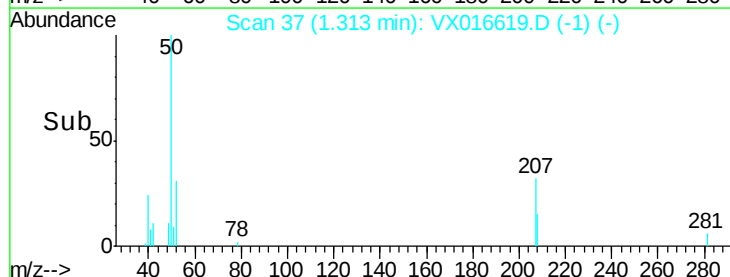
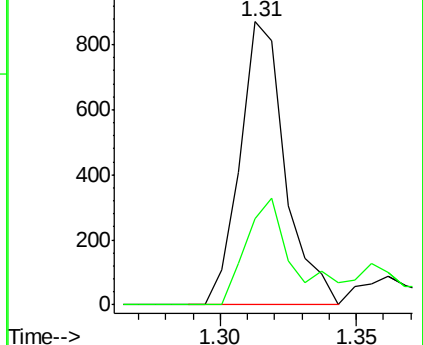
50 100

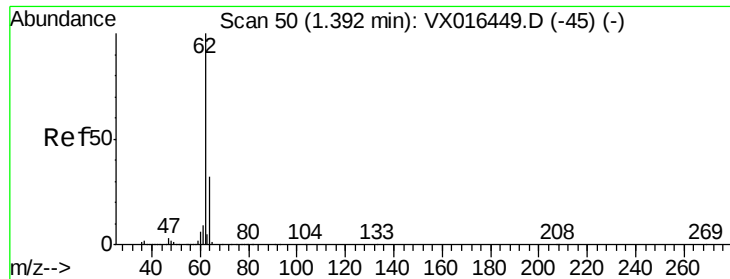
52 30.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.36 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

Instrument :

MSVOA_X

ClientSampleId :

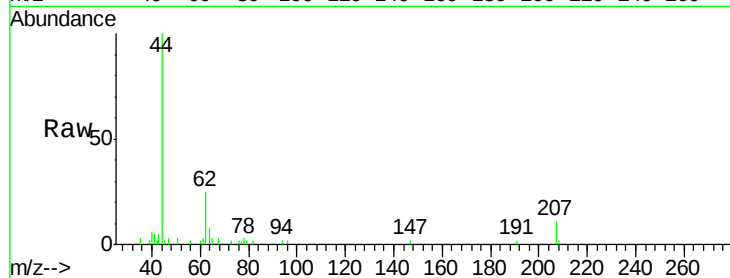
LF012MW003-200602

Tgt Ion: 62 Resp: 987

Ion Ratio Lower Upper

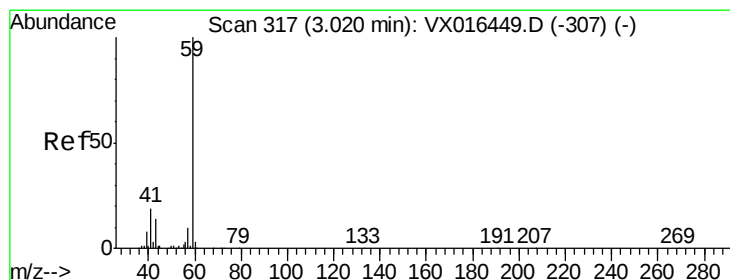
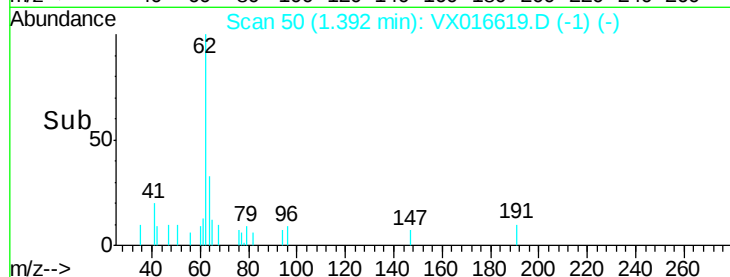
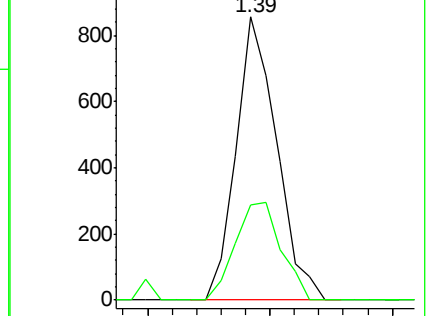
62 100

64 33.4 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 0.67 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX016619.D

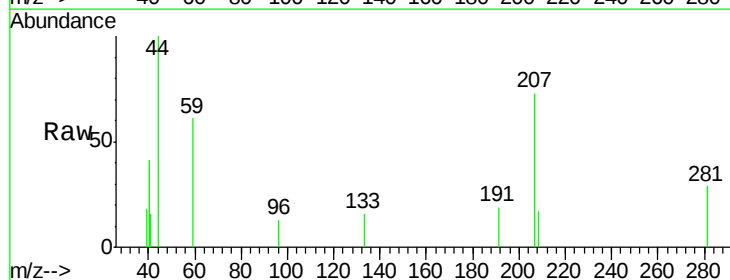
Acq: 05 Jun 2020 18:11

Tgt Ion: 59 Resp: 465

Ion Ratio Lower Upper

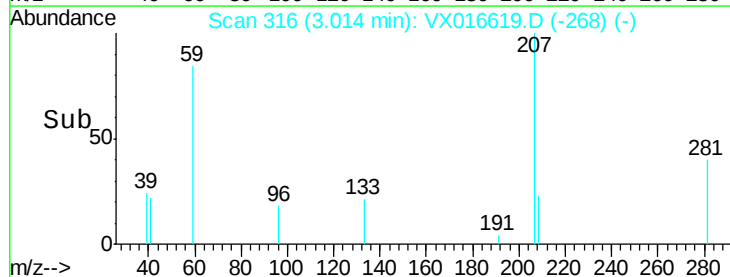
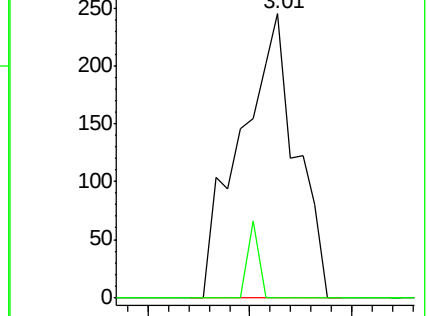
59 100

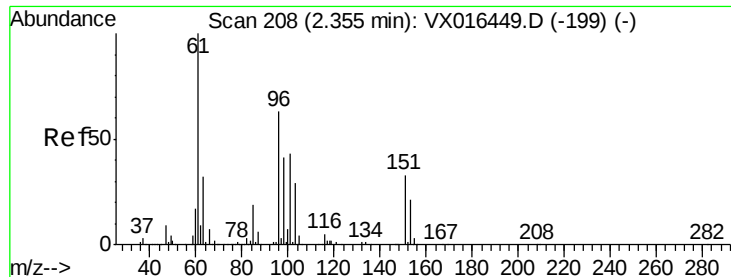
57 5.2 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.62 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

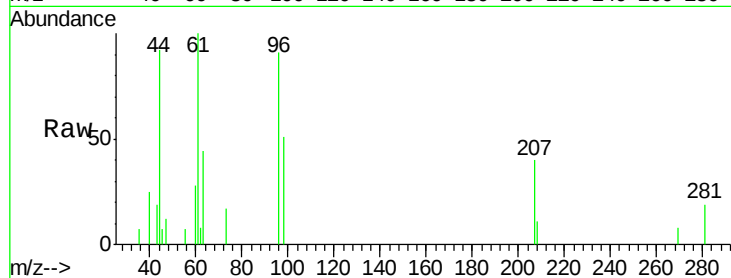
Instrument :

MSVOA_X

ClientSampleId :

LF012MW003-200602

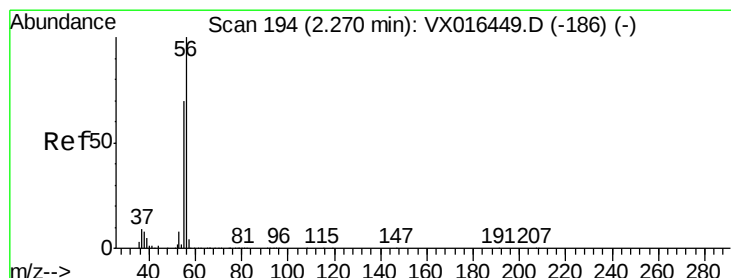
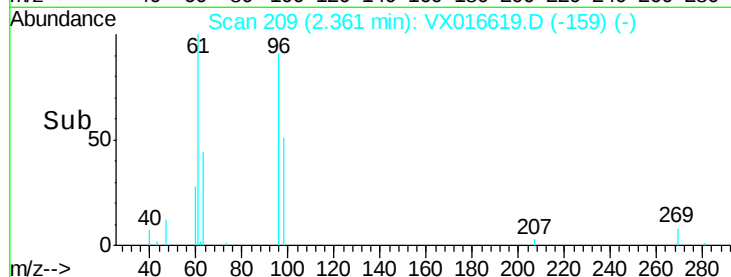
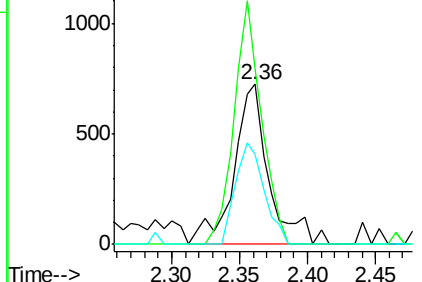
Tgt Ion:	96	Resp:	1297
Ion	Ratio	Lower	Upper
96	100		
61	109.8	126.6	189.8#
98	56.2	51.3	76.9



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: 0.47 ug/l

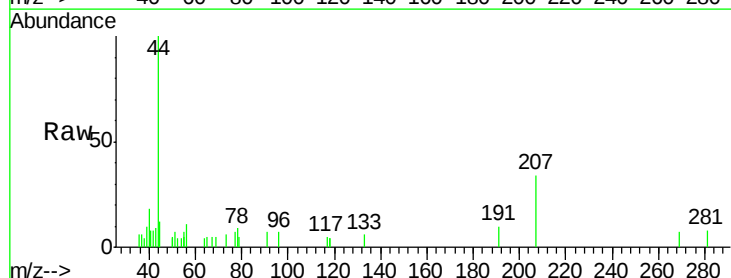
RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016619.D

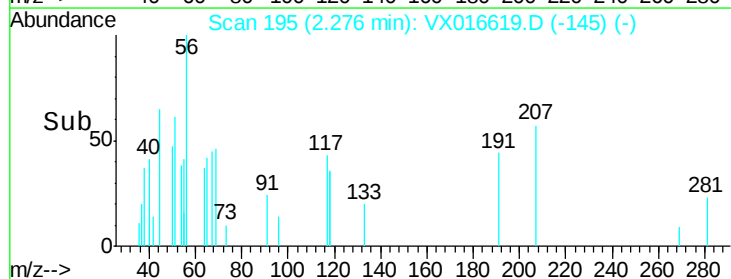
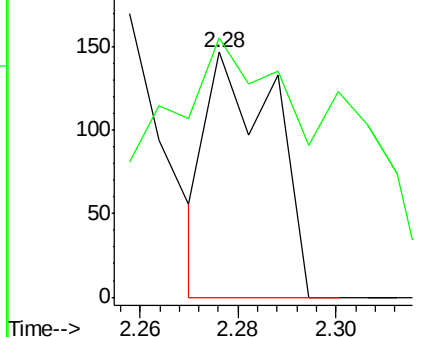
Acq: 05 Jun 2020 18:11

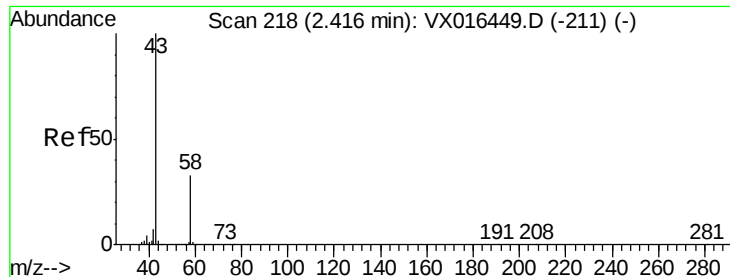
Tgt Ion:	56	Resp:	138
Ion	Ratio	Lower	Upper
56	100		
55	273.9	58.3	87.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.48 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

Instrument :

MSVOA_X

ClientSampleId :

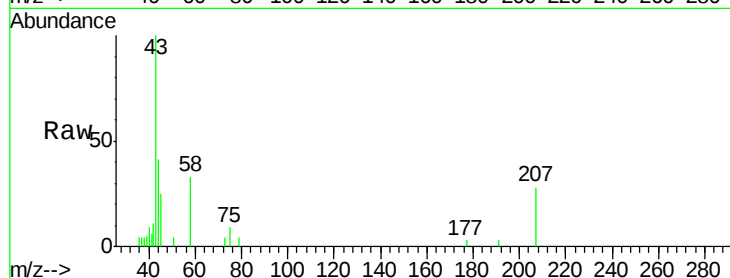
LF012MW003-200602

Tgt Ion: 43 Resp: 2947

Ion Ratio Lower Upper

43 100

58 32.8 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

1000

500

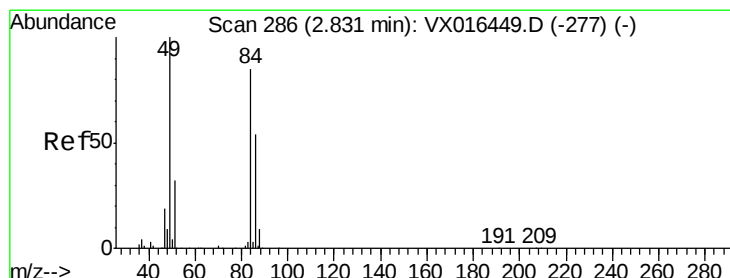
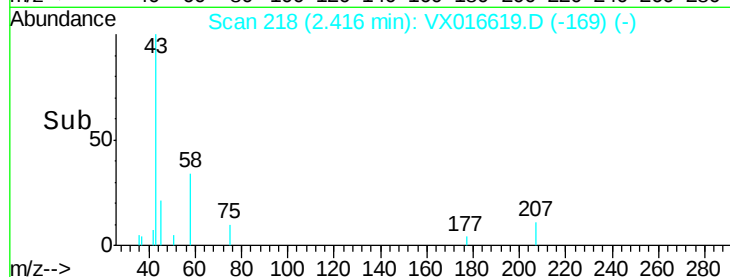
0

Time-->

2.35

2.40

2.45



#20

Methylene Chloride

Concen: 0.22 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

Tgt Ion: 84 Resp: 541

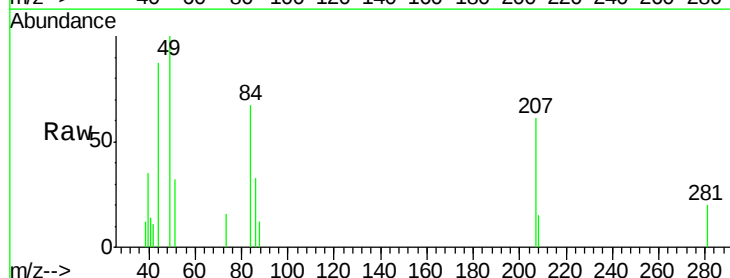
Ion Ratio Lower Upper

84 100

49 150.2 94.5 141.7#

51 48.6 30.2 45.4#

86 49.5 51.1 76.7#



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

600

400

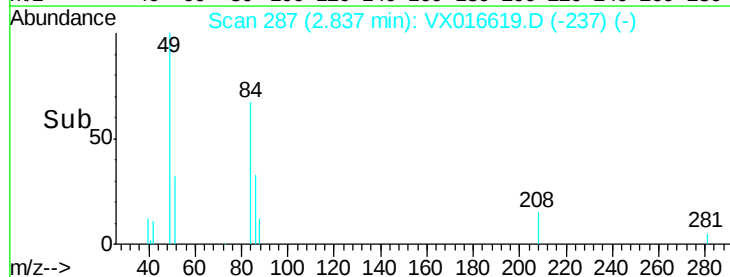
200

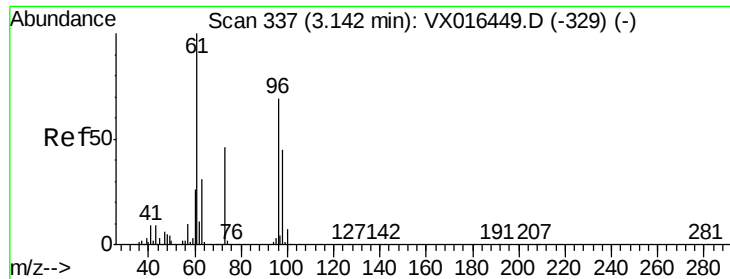
0

Time-->

2.80

2.85





#21

trans-1,2-Dichloroethene

Concen: 1.12 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

Instrument :

MSVOA_X

ClientSampleId :

LF012MW003-200602

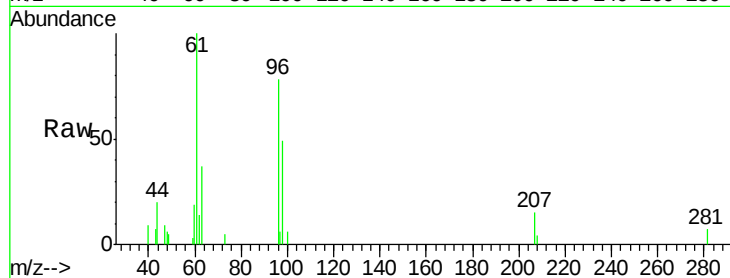
Tgt Ion: 96 Resp: 2593

Ion Ratio Lower Upper

96 100

61 127.5 115.3 172.9

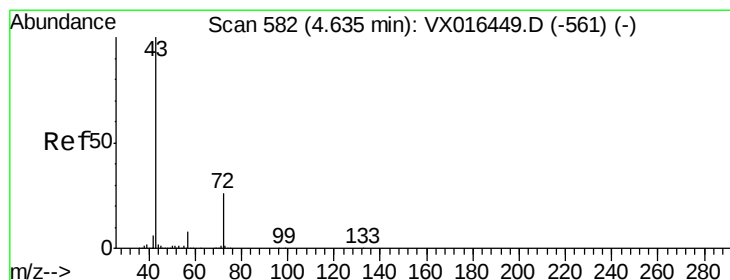
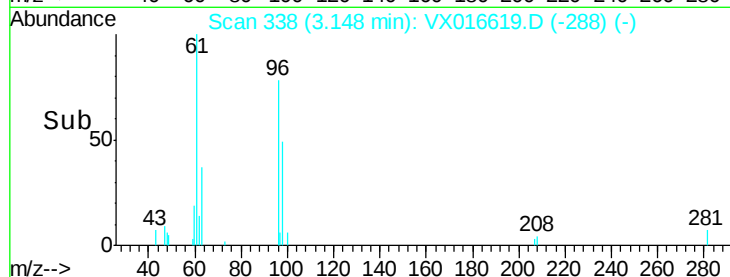
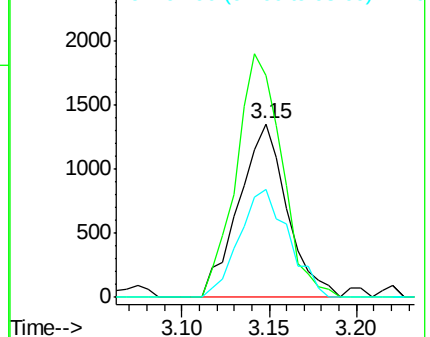
98 62.1 51.9 77.9



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



#25

2-Butanone

Concen: 0.21 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016619.D

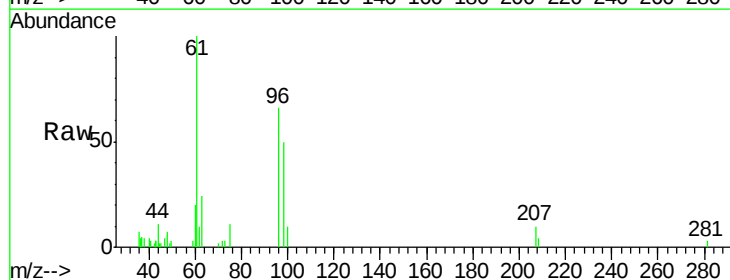
Acq: 05 Jun 2020 18:11

Tgt Ion: 43 Resp: 430

Ion Ratio Lower Upper

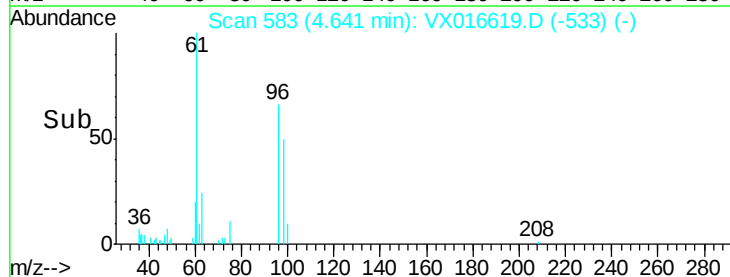
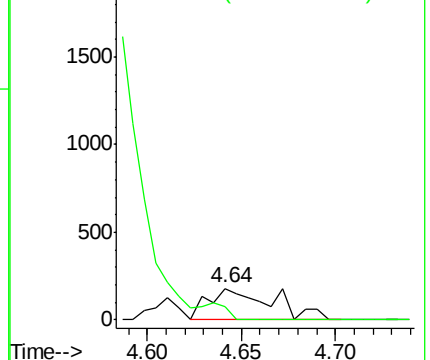
43 100

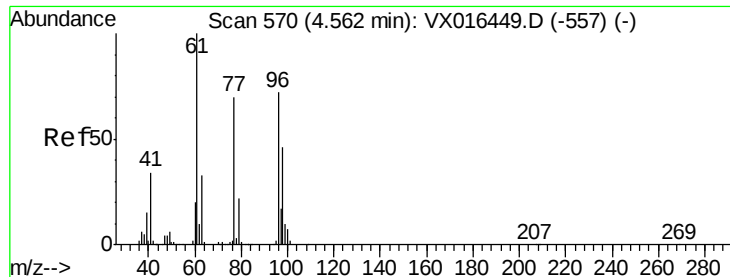
72 43.3 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



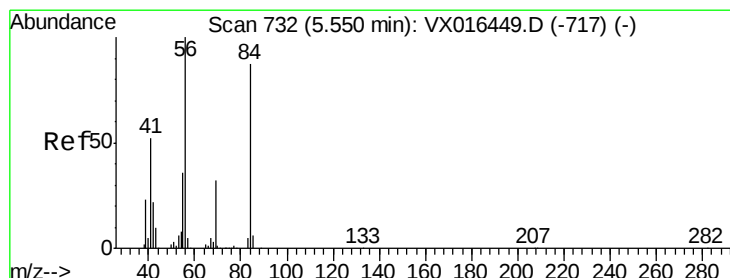
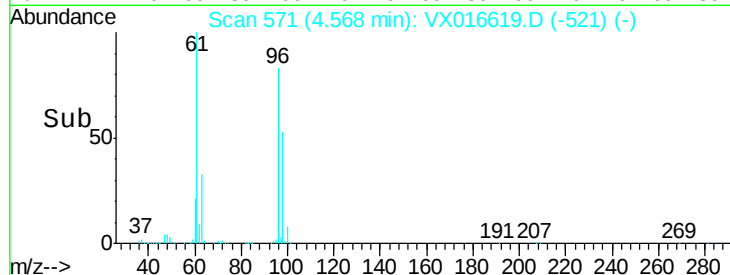
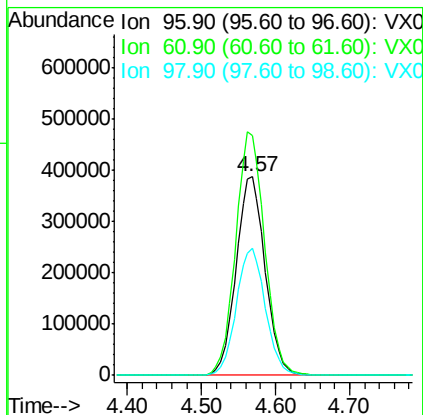
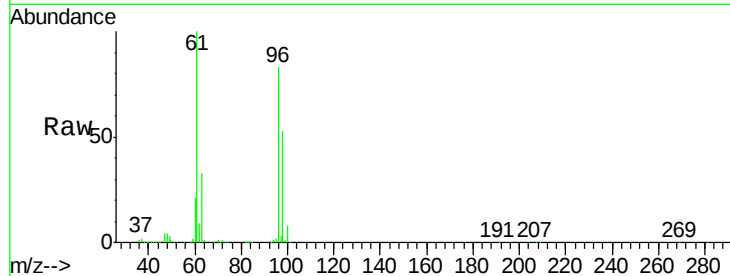


#27

cis-1,2-Dichloroethene
 Concen: 395.24 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VX016619.D
 Acq: 05 Jun 2020 18:11

Instrument :
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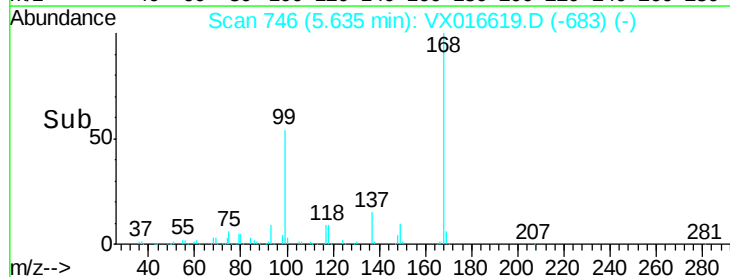
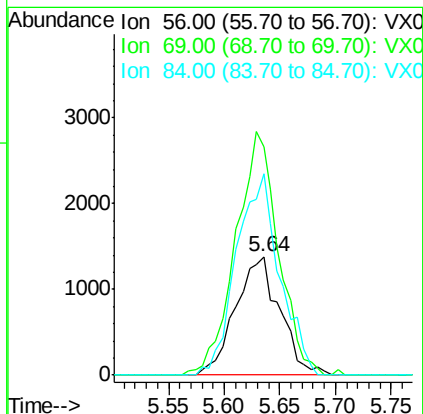
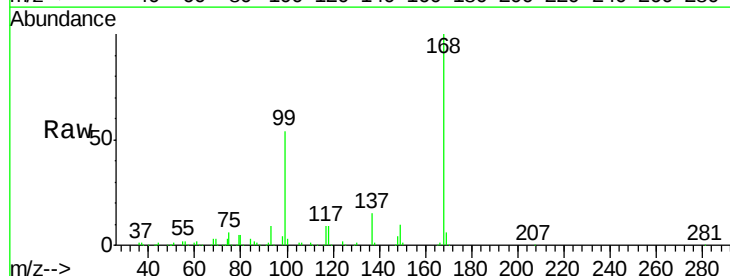
Tgt Ion: 96 Resp: 1061201
 Ion Ratio Lower Upper
 96 100
 61 122.8 0.0 284.6
 98 63.9 0.0 127.2

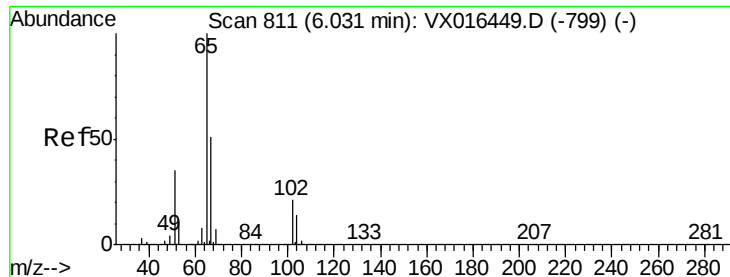


#31

Cyclohexane
 Concen: 1.02 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. 0.09 min
 Lab File: VX016619.D
 Acq: 05 Jun 2020 18:11

Tgt Ion: 56 Resp: 3838
 Ion Ratio Lower Upper
 56 100
 69 188.5 25.7 38.5#
 84 170.0 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 47.69 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

Instrument :

MSVOA_X

ClientSampleId :

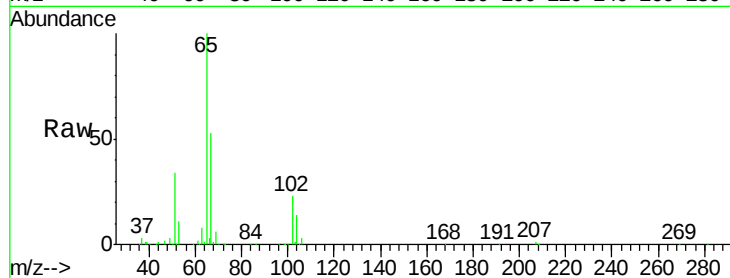
LF012MW003-200602

Tgt Ion: 65 Resp: 129148

Ion Ratio Lower Upper

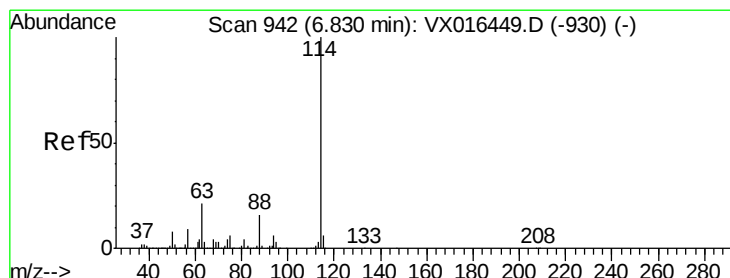
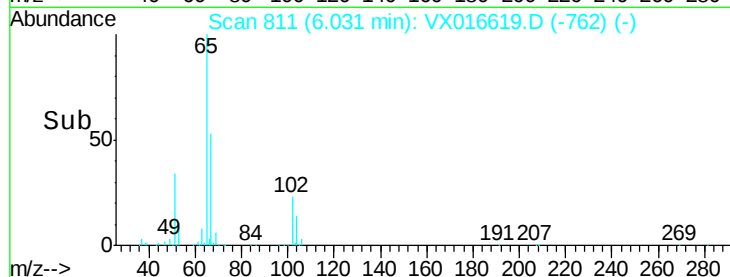
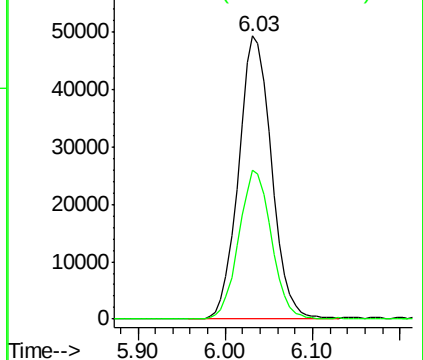
65 100

67 52.1 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: 50.00 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

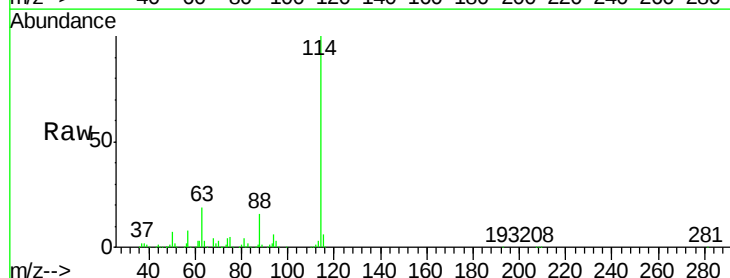
Tgt Ion: 114 Resp: 345135

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.6

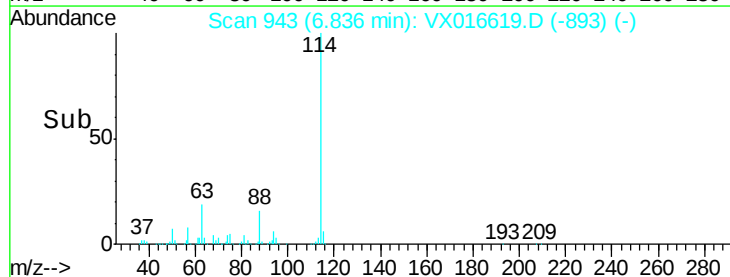
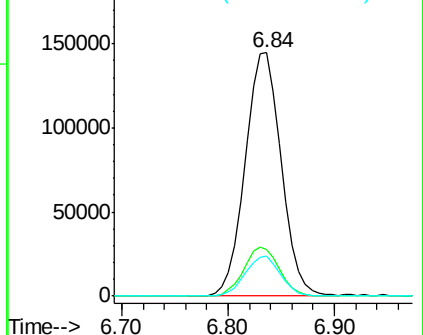
88 16.3 0.0 32.8

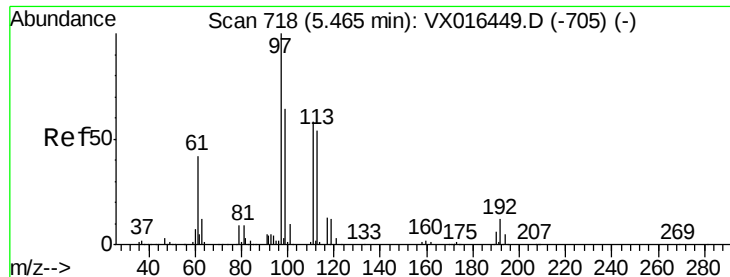


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.04 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

Instrument :

MSVOA_X

ClientSampleId :

LF012MW003-200602

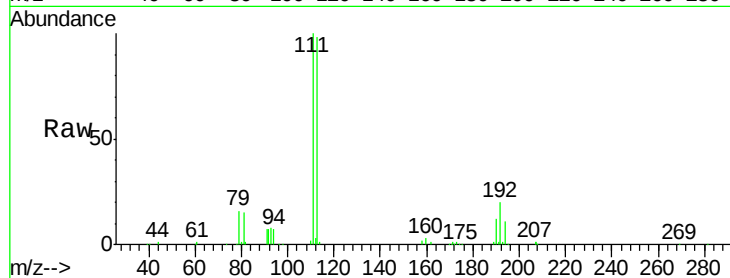
Tgt Ion:113 Resp: 106344

Ion Ratio Lower Upper

113 100

111 101.2 83.0 124.6

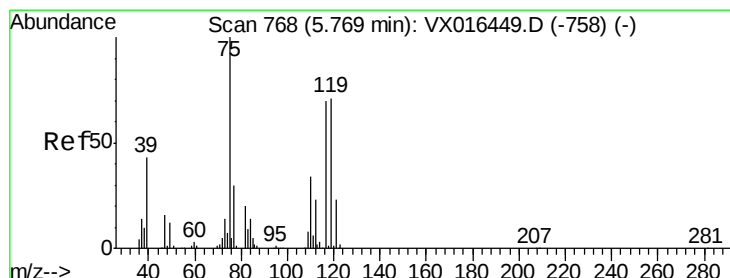
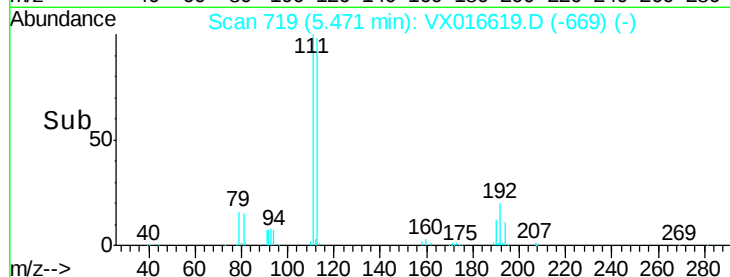
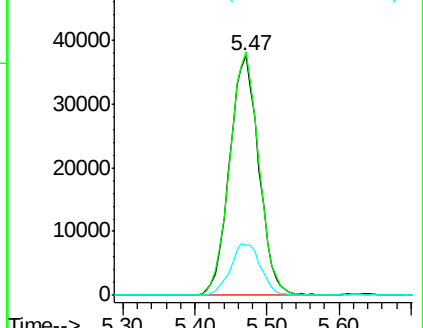
192 22.4 17.7 26.5



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.74 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

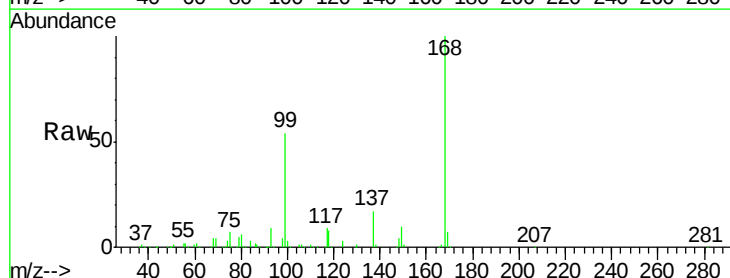
Tgt Ion: 75 Resp: 15484

Ion Ratio Lower Upper

75 100

110 10.0 17.4 52.3#

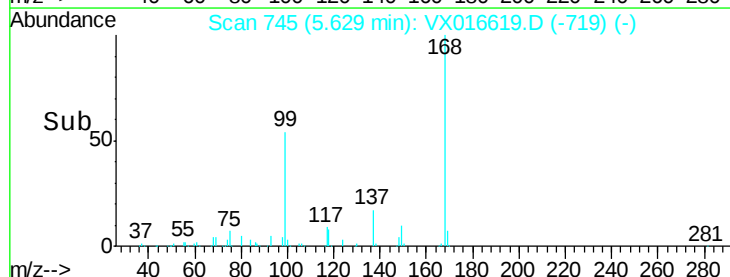
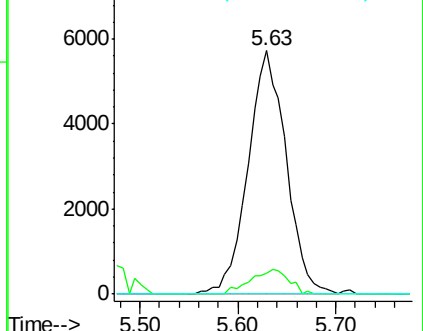
77 0.0 24.2 36.4#

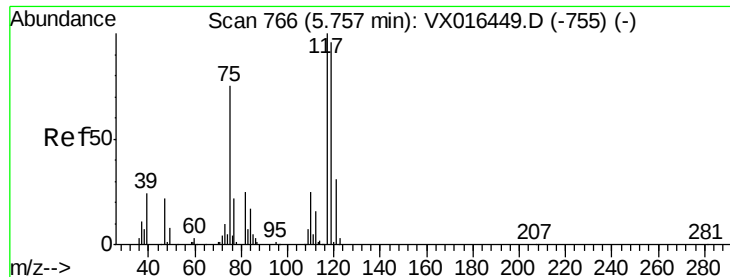


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.90 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

Instrument :

MSVOA_X

ClientSampleId :

LF012MW003-200602

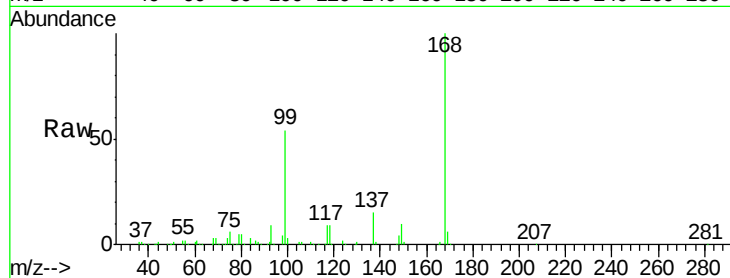
Tgt Ion:117 Resp: 20250

Ion Ratio Lower Upper

117 100

119 4.7 76.3 114.5#

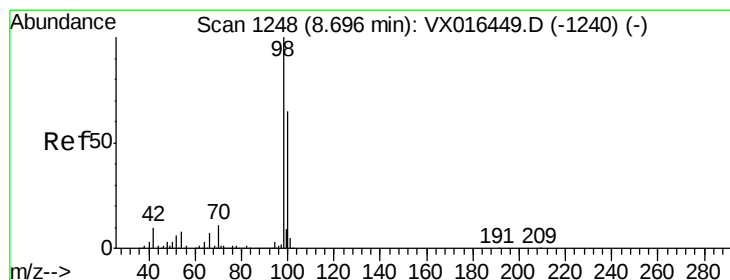
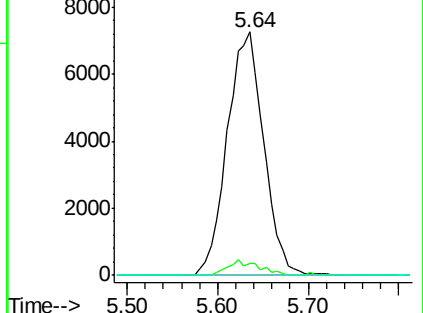
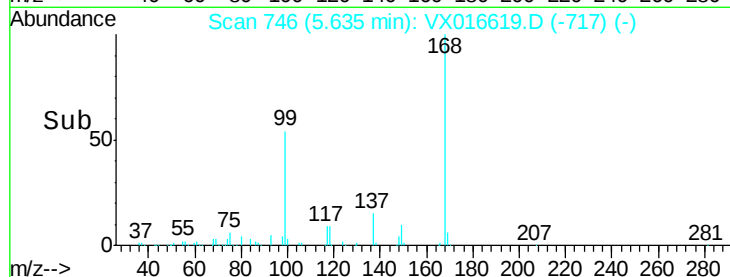
121 0.0 24.6 37.0#



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



#50

Toluene-d8

Concen: 51.11 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016619.D

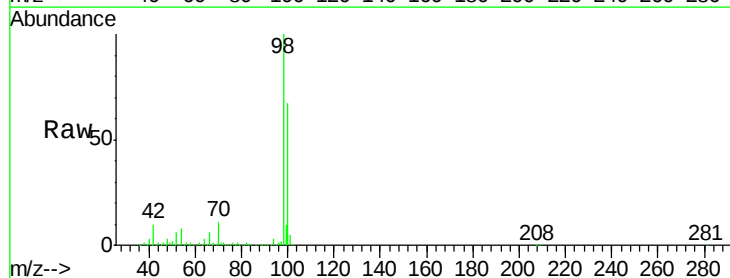
Acq: 05 Jun 2020 18:11

Tgt Ion: 98 Resp: 422727

Ion Ratio Lower Upper

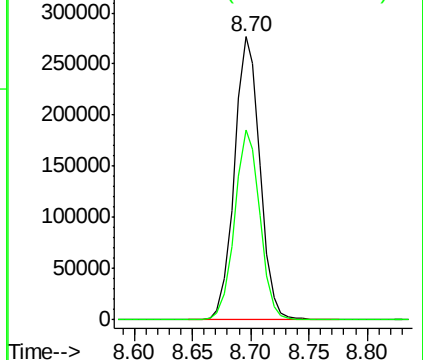
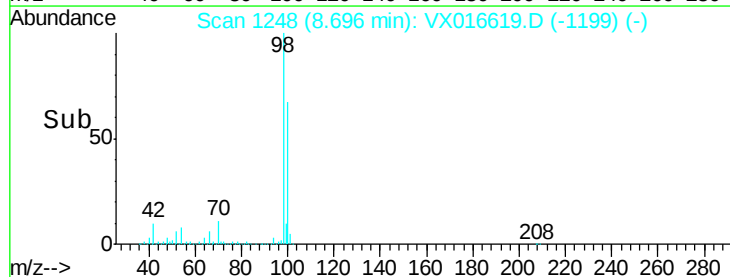
98 100

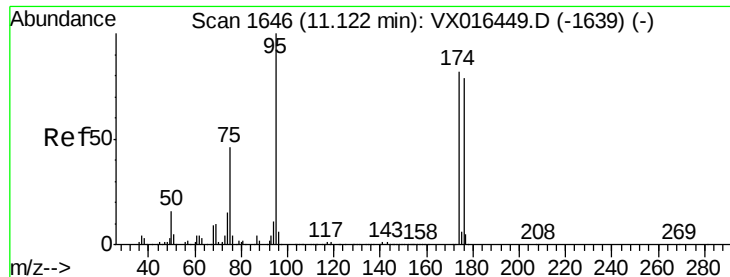
100 66.3 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 52.43 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

Instrument :

MSVOA_X

ClientSampleId :

LF012MW003-200602

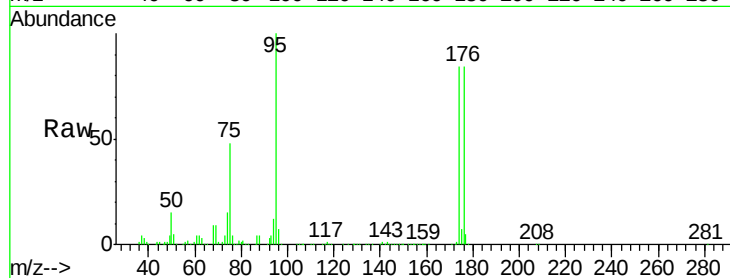
Tgt Ion: 95 Resp: 167572

Ion Ratio Lower Upper

95 100

174 84.2 0.0 163.0

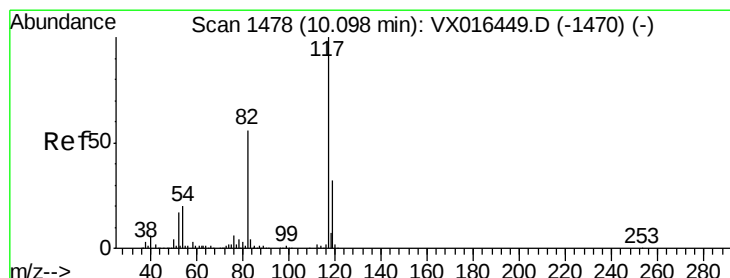
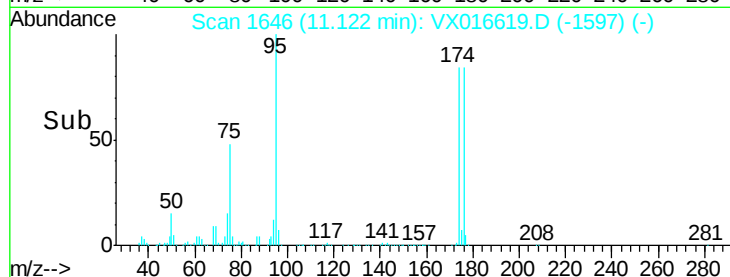
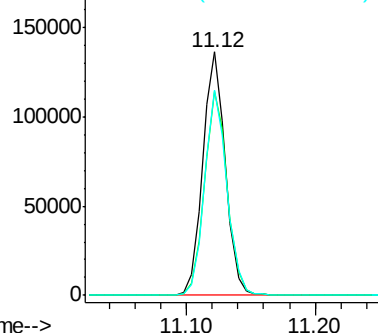
176 83.4 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016619.D

Acq: 05 Jun 2020 18:11

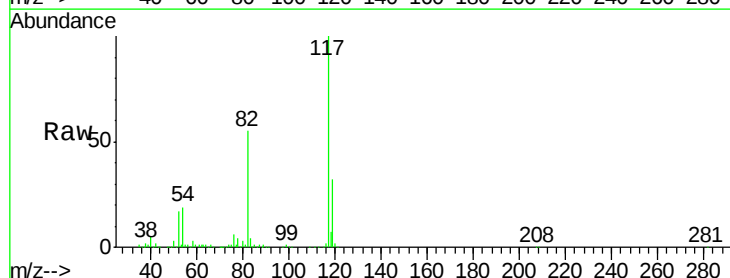
Tgt Ion: 117 Resp: 347221

Ion Ratio Lower Upper

117 100

82 55.2 45.0 67.6

119 32.5 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

