

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051920\
 Data File : VX016333.D
 Acq On : 19 May 2020 14:42
 Operator : JC/SP
 Sample : L2672-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW011-200514

Quant Time: May 20 03:47:22 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	5.63	168	240348	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	396308	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	390096	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	193290	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	140741	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	
35) Dibromofluoromethane	5.46	113	115168	45.87	ug/l	0.00
Spiked Amount			Recovery	=	91.74%	
50) Toluene-d8	8.70	98	491923	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
62) 4-Bromofluorobenzene	11.12	95	196438	53.39	ug/l	0.00
Spiked Amount			Recovery	=	106.78%	

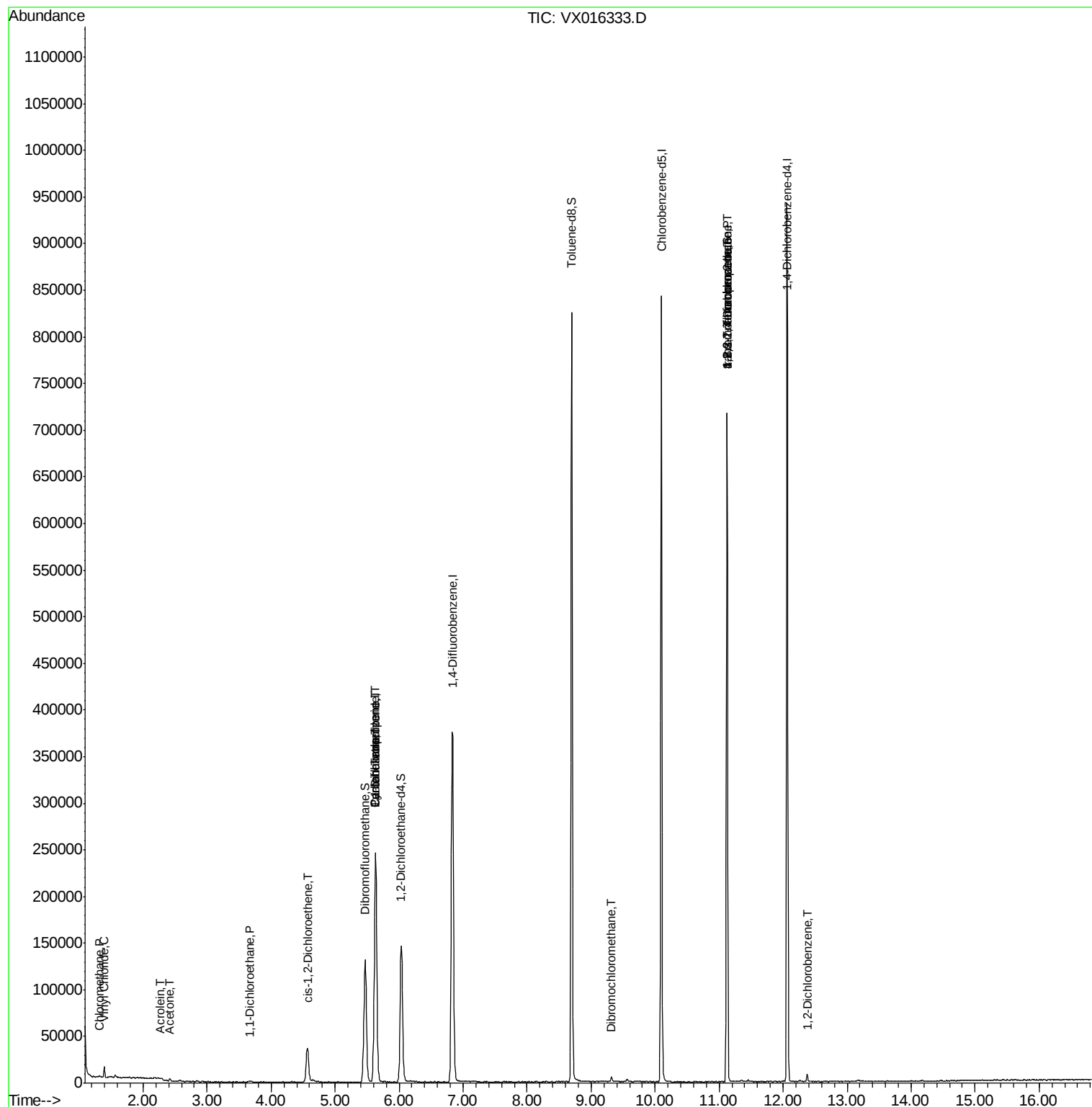
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	806	0.273	ug/l	92
4) Vinyl Chloride	1.39	62	5813	1.844	ug/l	99
13) Acrolein	2.27	56	325	0.649	ug/l	90
16) Acetone	2.42	43	2474	1.753	ug/l #	78
17) Carbon Disulfide	2.55	76	864	Below Cal	#	88
24) 1,1-Dichloroethane	3.67	63	1458	0.302	ug/l #	82
27) cis-1,2-Dichloroethene	4.57	96	24748	8.131	ug/l	85
31) Cyclohexane	5.62	56	4254	0.968	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	17272	4.427	ug/l #	49
38) Carbon Tetrachloride	5.63	117	23422	5.907	ug/l #	15
60) Dibromochloromethane	9.32	129	792	0.257	ug/l #	11
75) 1,1,2,2-Tetrachloroethane	11.12	83	123	2.096	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	94775	21.608	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	94775	51.492	ug/l #	13
91) 1,2-Dichlorobenzene	12.38	146	2556	0.407	ug/l	99

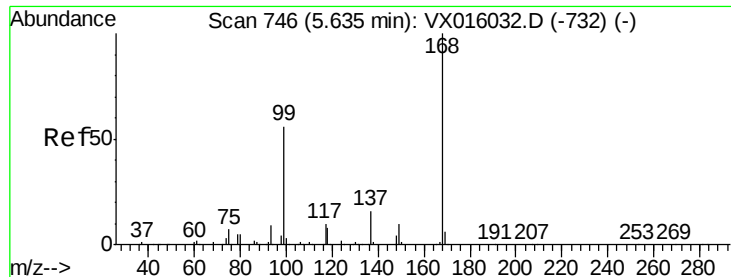
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

Instrument :

MSVOA_X

ClientSampleId :

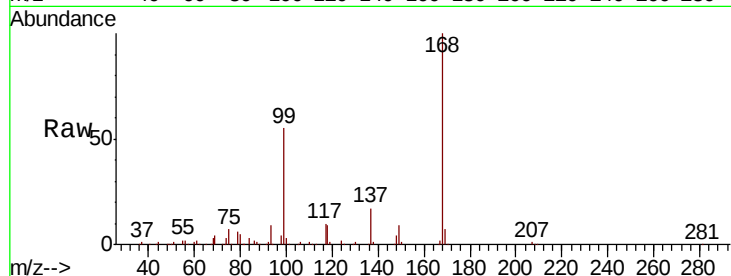
WP021MW011-200514

Tot Ion:168 Resp: 240348

Ion Ratio Lower Upper

168 100

99 55.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

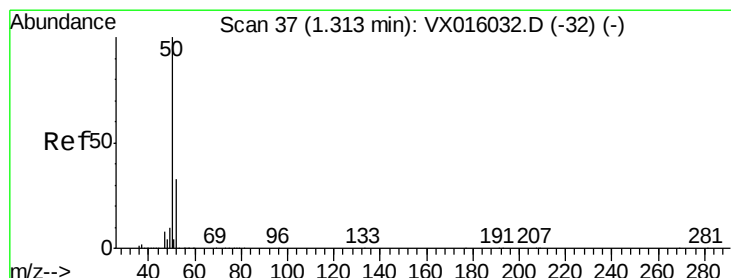
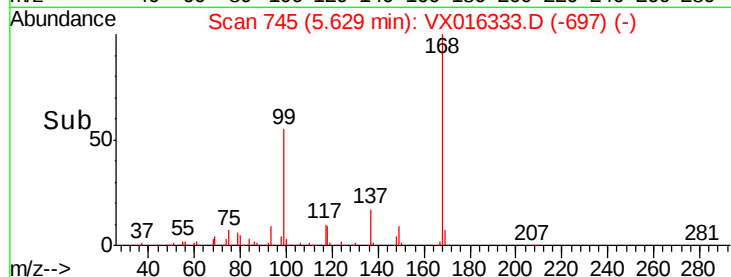
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.273 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016333.D

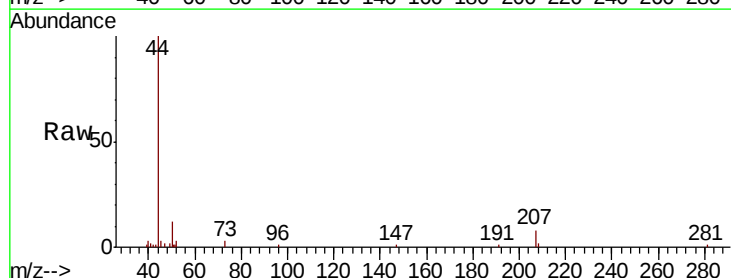
Acq: 19 May 2020 14:42

Tgt Ion: 50 Resp: 806

Ion Ratio Lower Upper

50 100

52 28.2 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

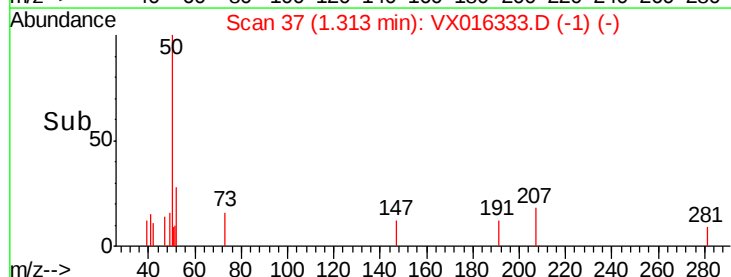
400

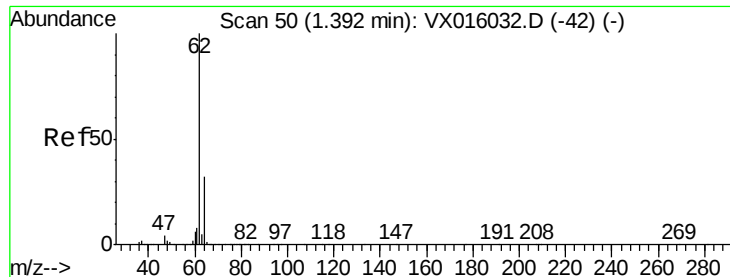
200

0

1.30 1.35

Time-->





#4

Vinyl Chloride

Concen: 1.844 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

Instrument :

MSVOA_X

ClientSampleId :

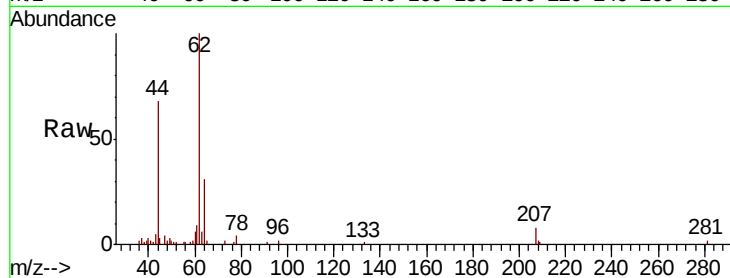
WP021MW011-200514

Tot Ion: 62 Resp: 5813

Ion Ratio Lower Upper

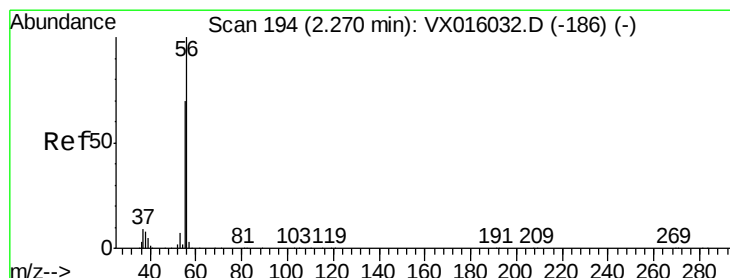
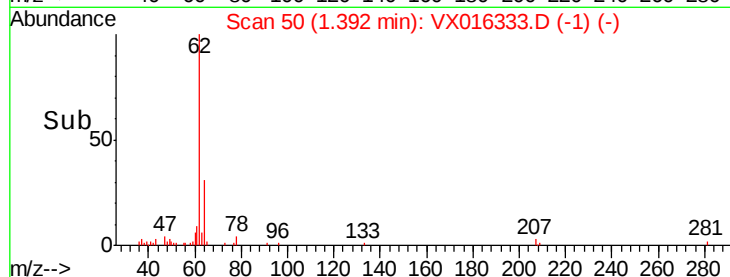
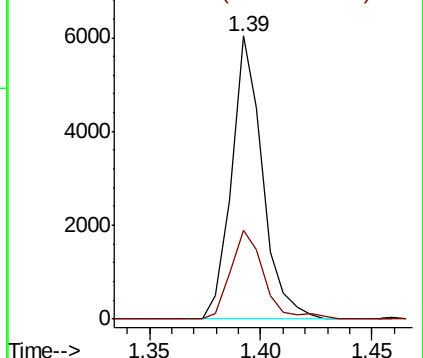
62 100

64 31.4 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#13

Acrolein

Concen: 0.649 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016333.D

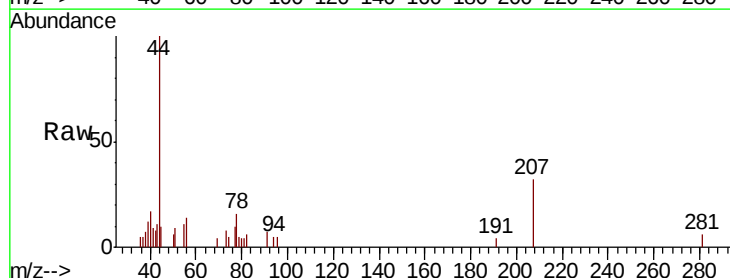
Acq: 19 May 2020 14:42

Tgt Ion: 56 Resp: 325

Ion Ratio Lower Upper

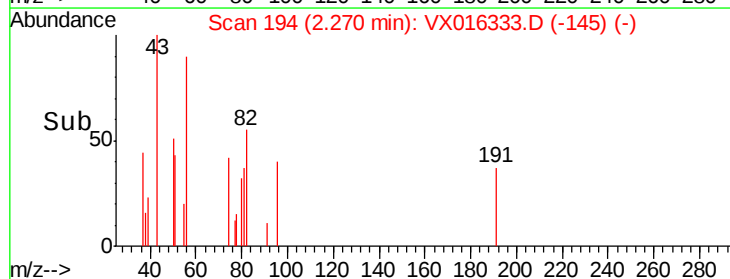
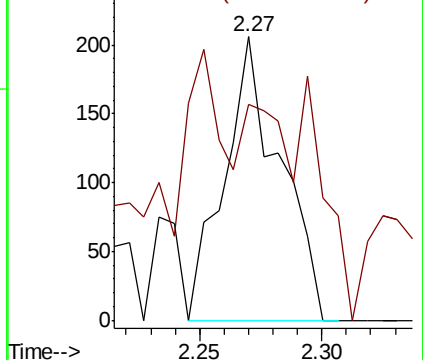
56 100

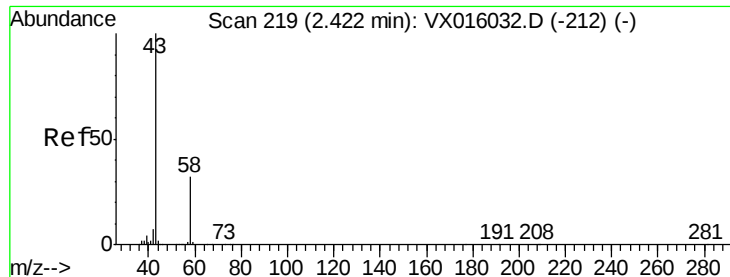
55 62.5 56.5 84.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.753 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

Instrument :

MSVOA_X

ClientSampleId :

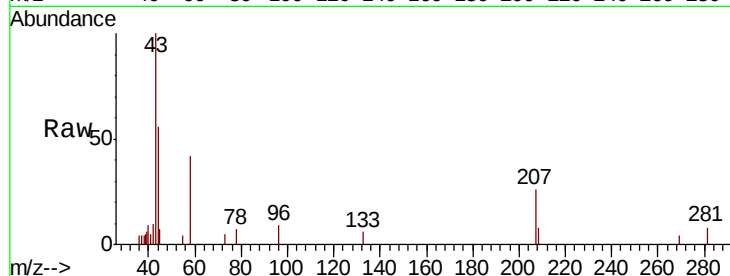
WP021MW011-200514

Tot Ion: 43 Resp: 2474

Ion Ratio Lower Upper

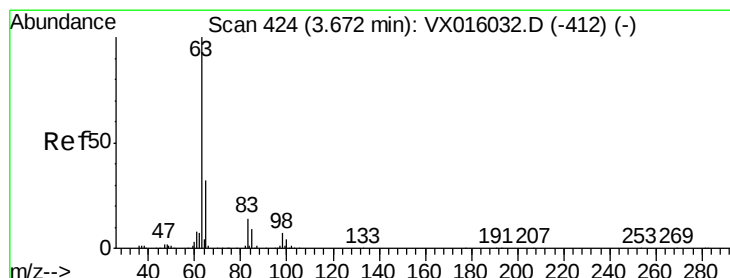
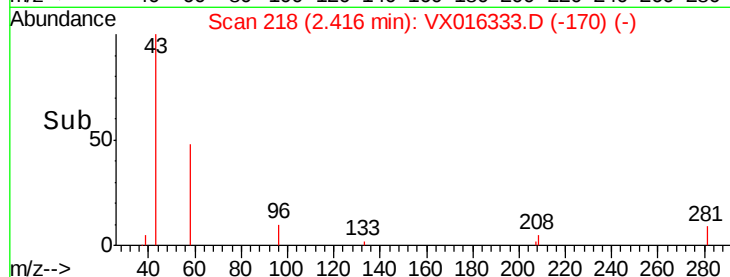
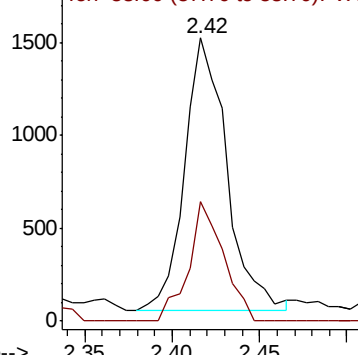
43 100

58 44.0 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#24

1,1-Dichloroethane

Concen: 0.302 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

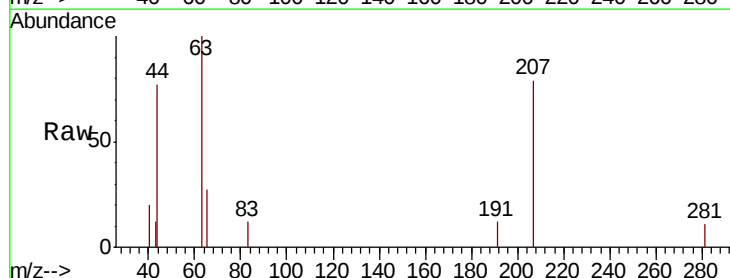
Tgt Ion: 63 Resp: 1458

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.5#

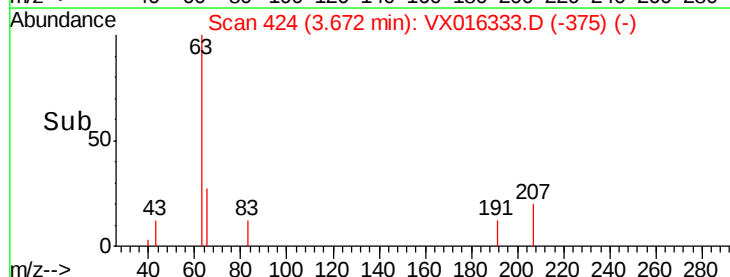
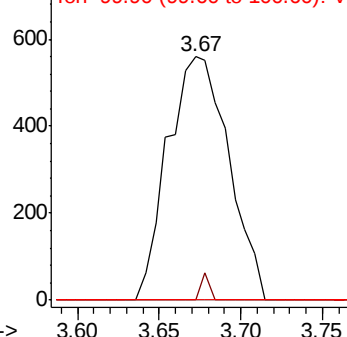
100 0.0 2.1 6.5#

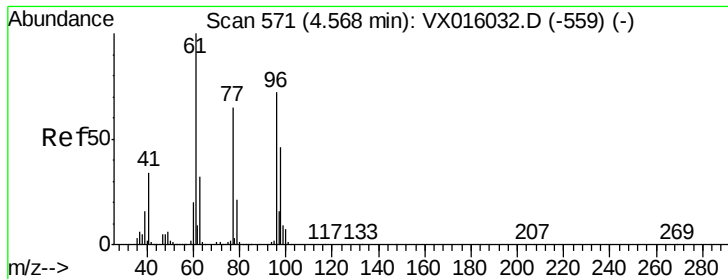


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



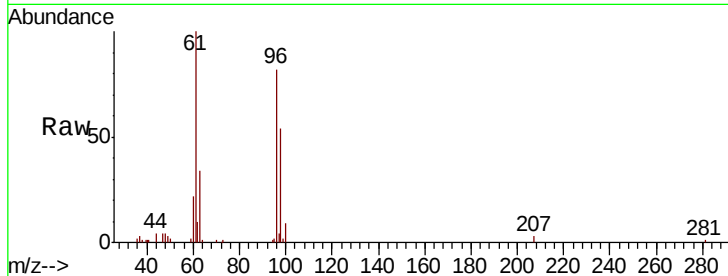


#27

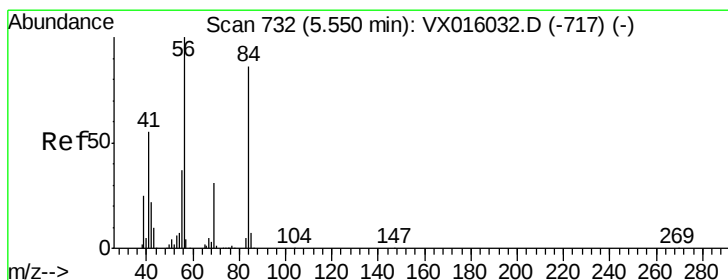
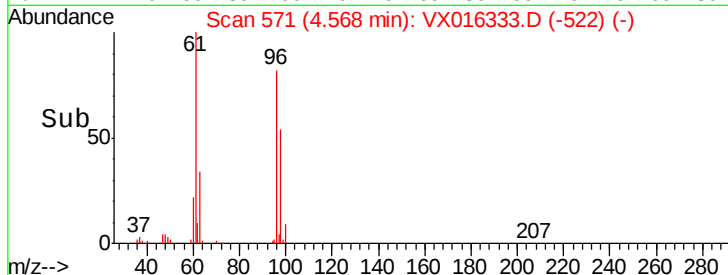
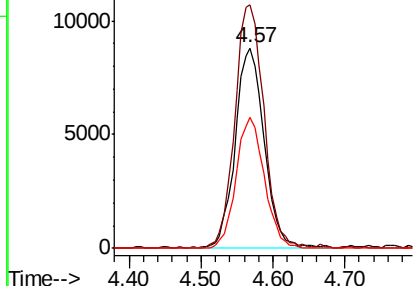
cis-1,2-Dichloroethene
 Concen: 8.131 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016333.D
 Acq: 19 May 2020 14:42

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW011-200514

Tot Ion	Ratio	Lower	Upper
96	100		
61	121.7	0.0	296.2
98	63.5	0.0	129.4



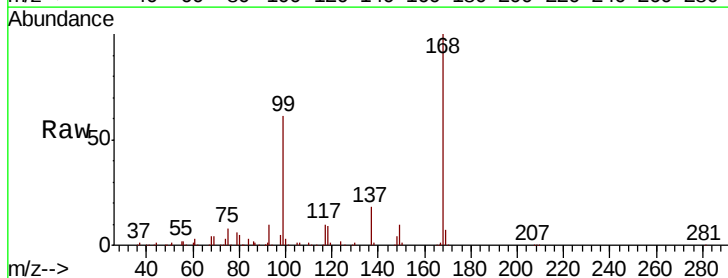
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



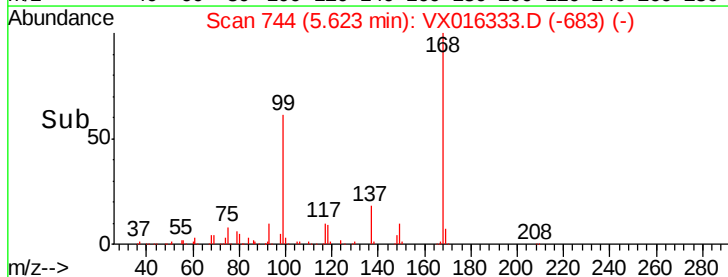
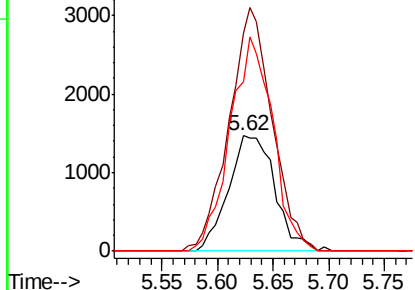
#31

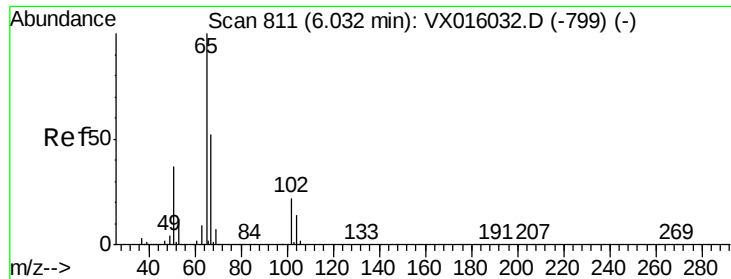
Cyclohexane
 Concen: 0.968 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. 0.07 min
 Lab File: VX016333.D
 Acq: 19 May 2020 14:42

Tgt Ion	Ratio	Lower	Upper
56	100		
69	189.6	25.0	37.6#
84	147.5	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: 44.500 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

Instrument :

MSVOA_X

ClientSampleId :

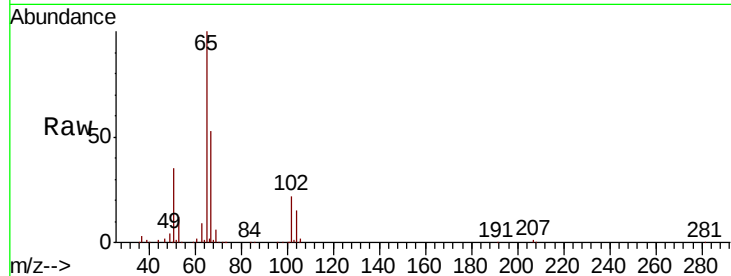
WP021MW011-200514

Tot Ion: 65 Resp: 140741

Ion Ratio Lower Upper

65 100

67 53.2 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

60000

50000

40000

30000

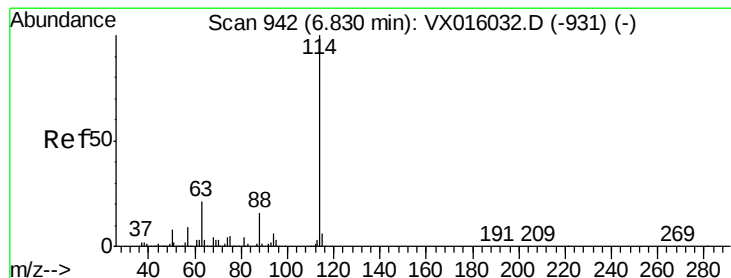
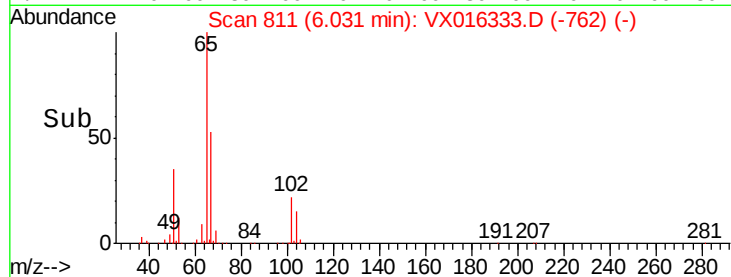
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

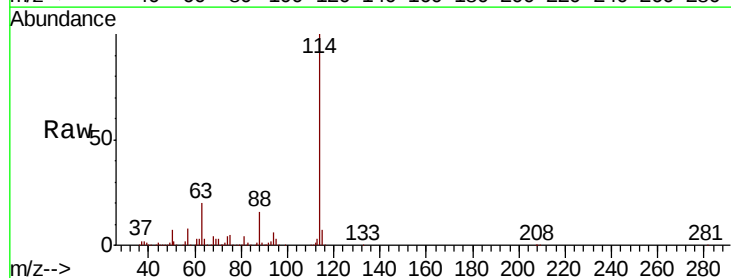
Tgt Ion: 114 Resp: 396308

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.8

88 16.0 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

200000

150000

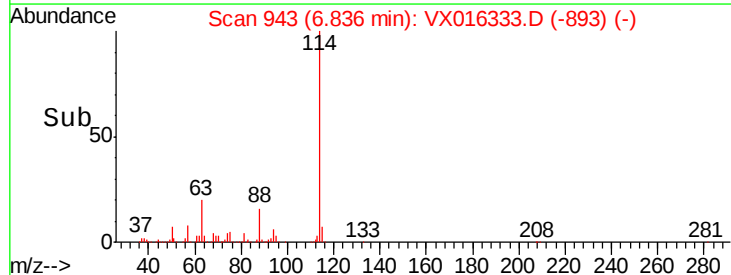
100000

50000

0

Time-->

6.70 6.80 6.90





#35

Dibromofluoromethane

Concen: 45.869 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

Instrument :

MSVOA_X

ClientSampleId :

WP021MW011-200514

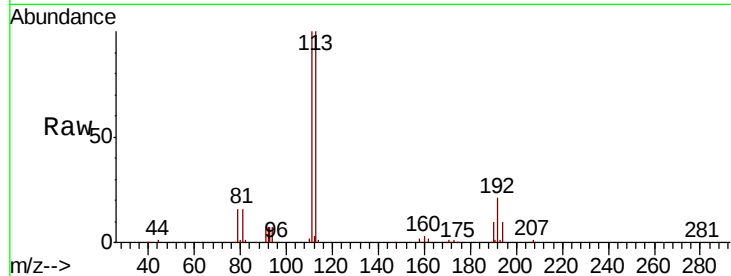
Tot Ion:113 Resp: 115168

Ion Ratio Lower Upper

113 100

111 102.9 81.6 122.4

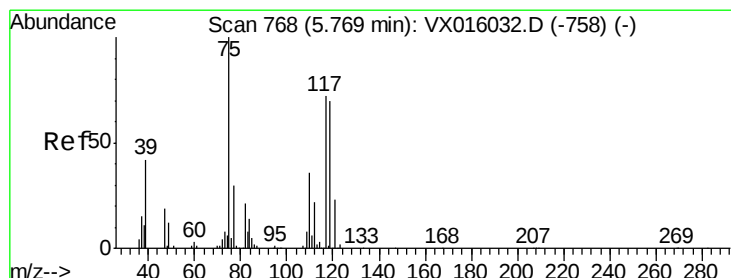
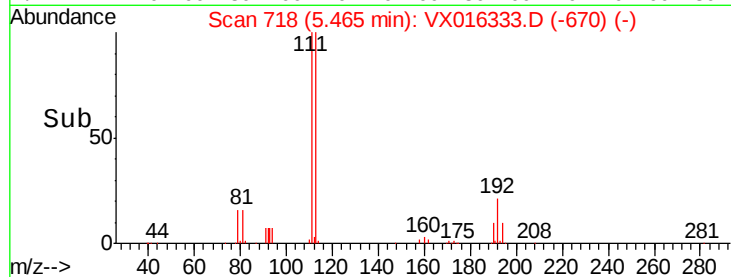
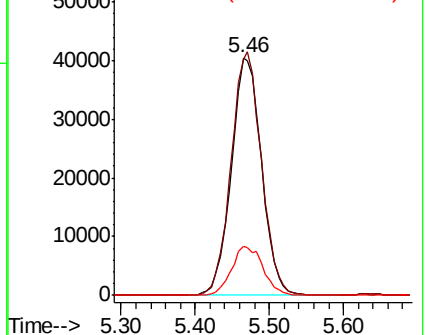
192 21.4 17.0 25.4



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: 4.427 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

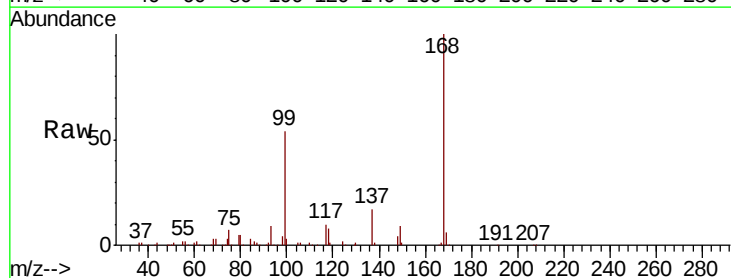
Tgt Ion: 75 Resp: 17272

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

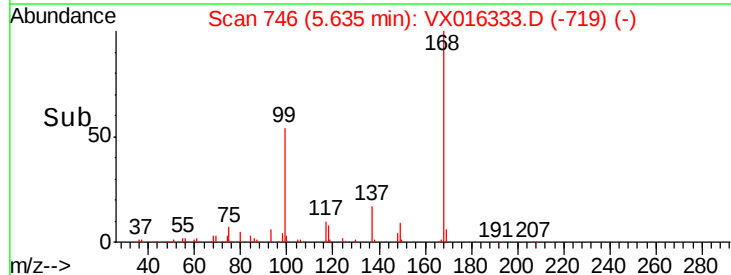
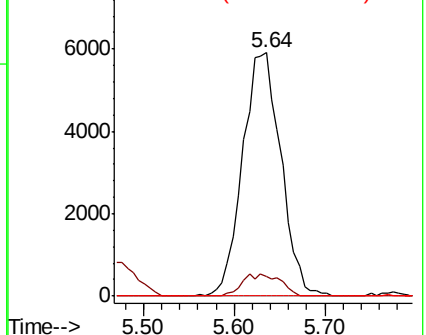
77 0.0 25.0 37.6#

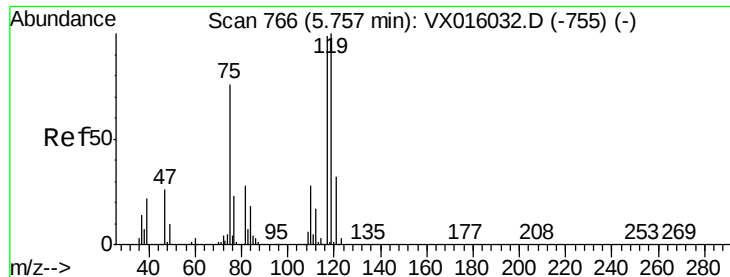


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.907 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

Instrument :

MSVOA_X

ClientSampleId :

WP021MW011-200514

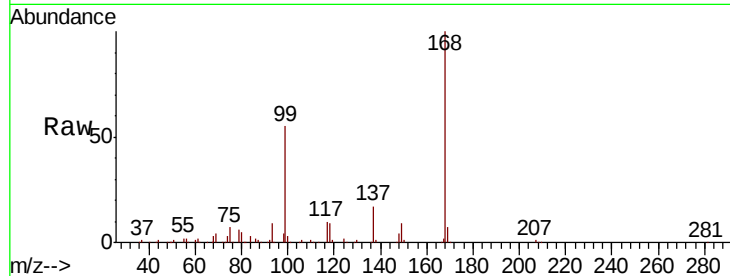
Tot Ion:117 Resp: 23422

Ion Ratio Lower Upper

117 100

119 6.0 80.3 120.5#

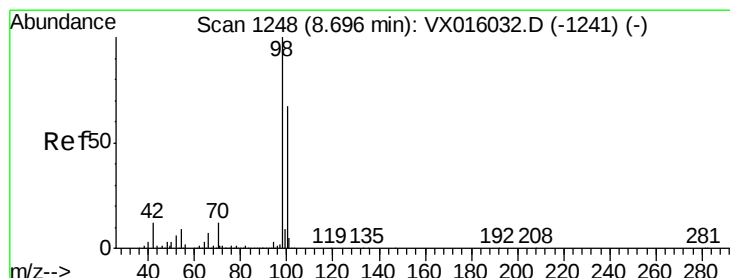
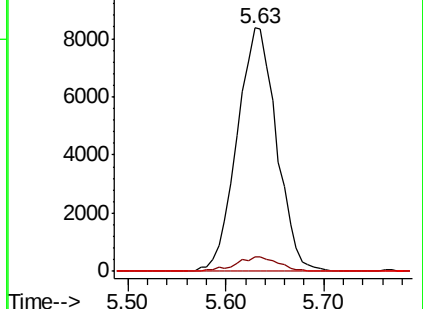
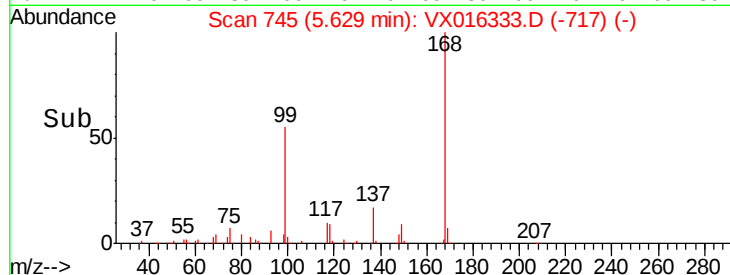
121 0.0 25.7 38.5#



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



#50

Toluene-d8

Concen: 50.849 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016333.D

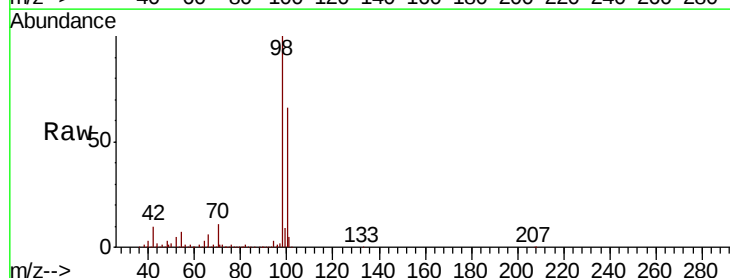
Acq: 19 May 2020 14:42

Tgt Ion: 98 Resp: 491923

Ion Ratio Lower Upper

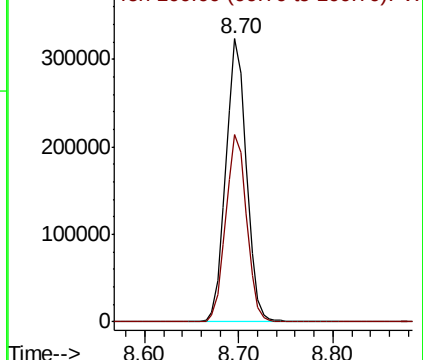
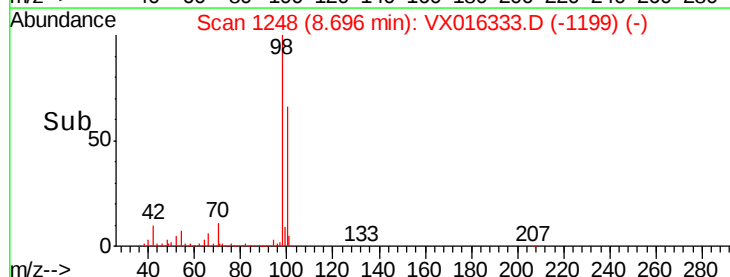
98 100

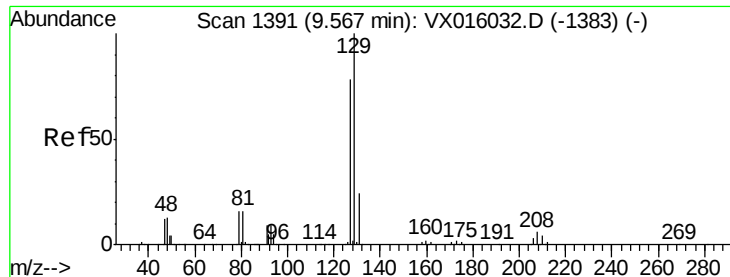
100 67.4 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.257 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

Instrument :

MSVOA_X

ClientSampleId :

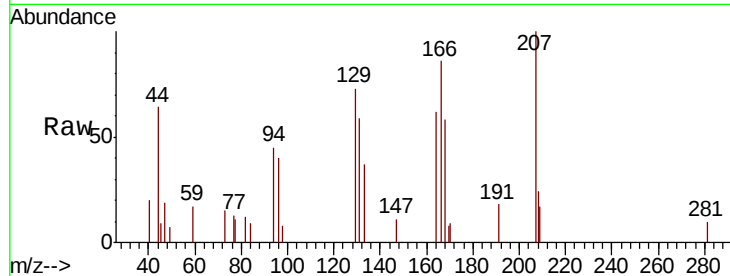
WP021MW011-200514

Tot Ion:129 Resp: 792

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

600

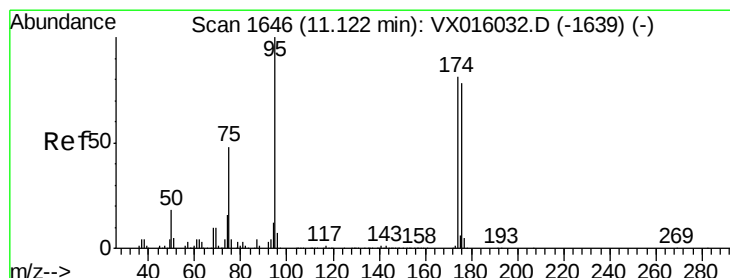
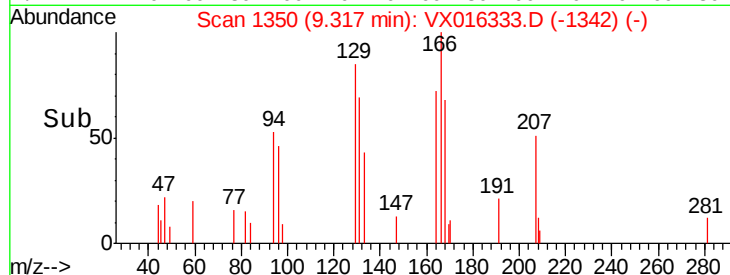
400

200

0

9.30 9.32 9.35

Time-->



#62

4-Bromofluorobenzene

Concen: 53.386 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

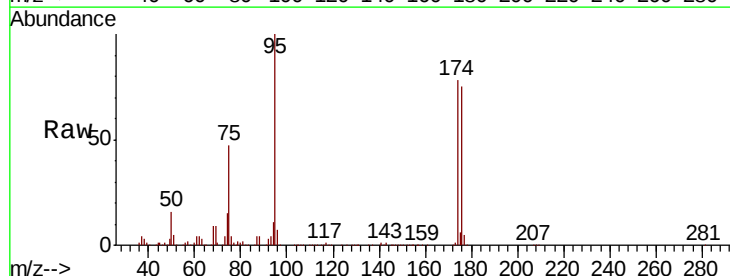
Tgt Ion: 95 Resp: 196438

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.4

176 76.7 0.0 157.6



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

200000

150000

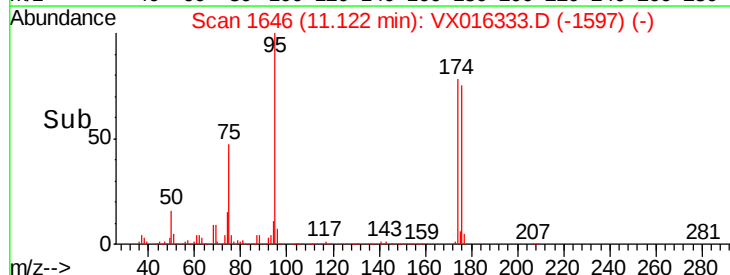
100000

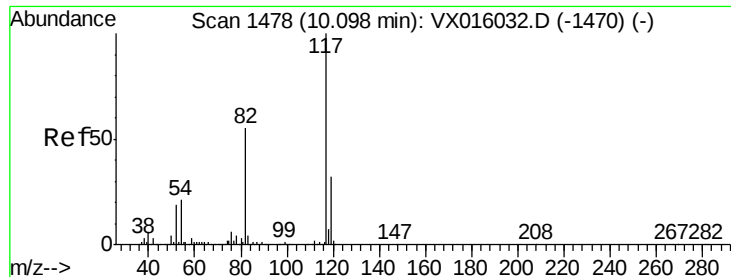
50000

0

11.00 11.10 11.20

Time-->

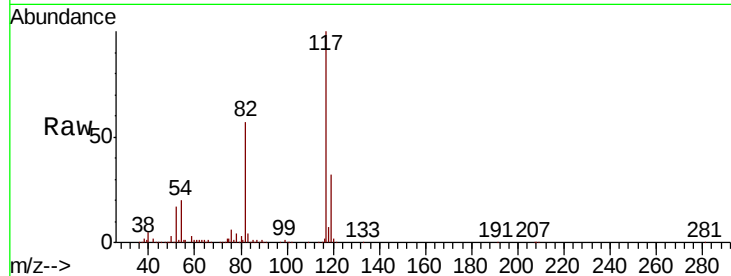




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016333.D
Acq: 19 May 2020 14:42

Instrument :
MSVOA_X
ClientSampleId :
WP021MW011-200514

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.4	66.6
119	32.5	25.5	38.3

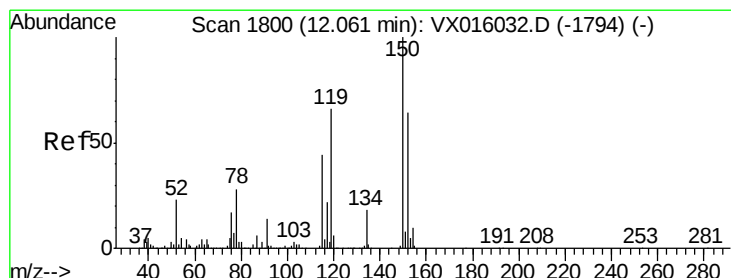
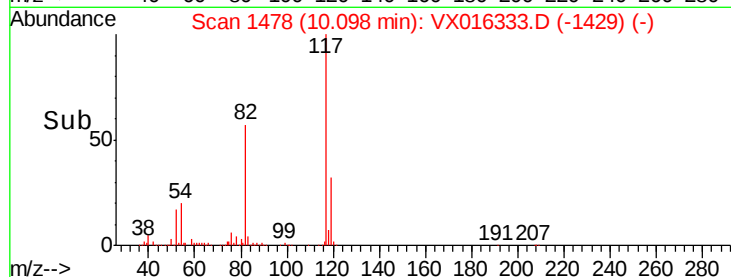
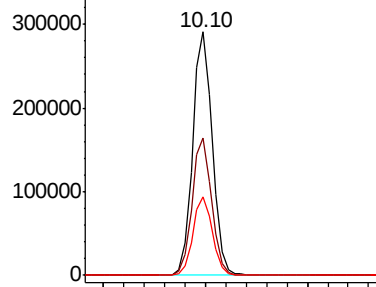


Abundance

Ion 116.90 (116.60 to 117.60): V

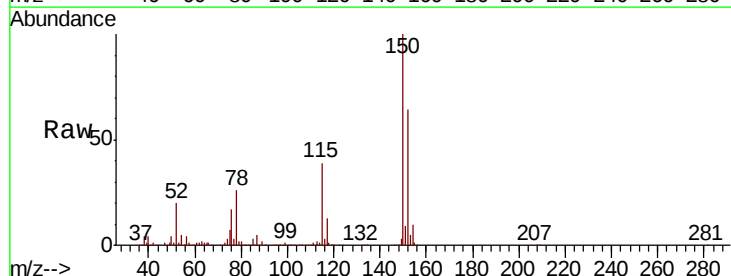
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016333.D
Acq: 19 May 2020 14:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.6	41.3	124.1
150	156.4	0.0	352.2

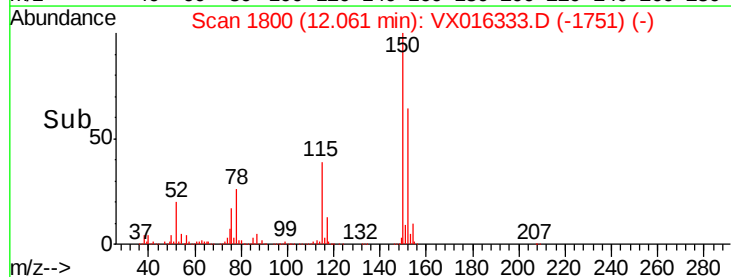
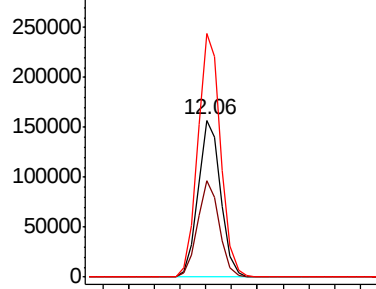


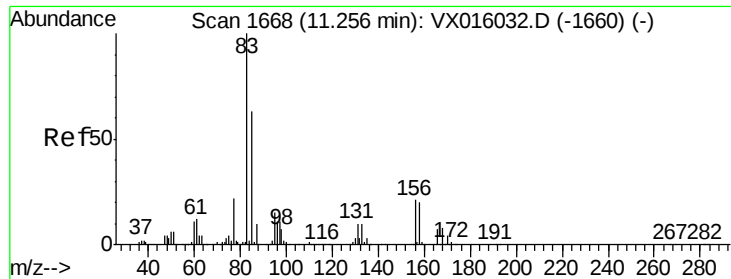
Abundance

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: 2.096 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.14 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

Instrument :

MSVOA_X

ClientSampleId :

WP021MW011-200514

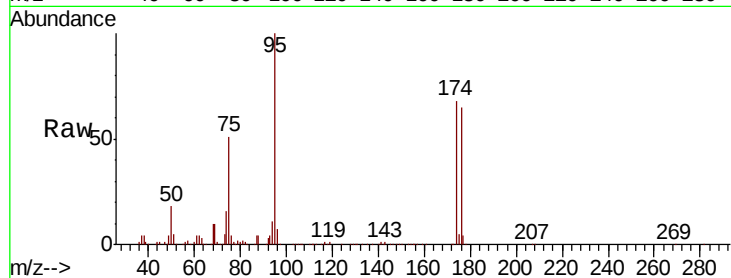
Tot Ion: 83 Resp: 123

Ion Ratio Lower Upper

83 100

131 213.0 5.1 15.4#

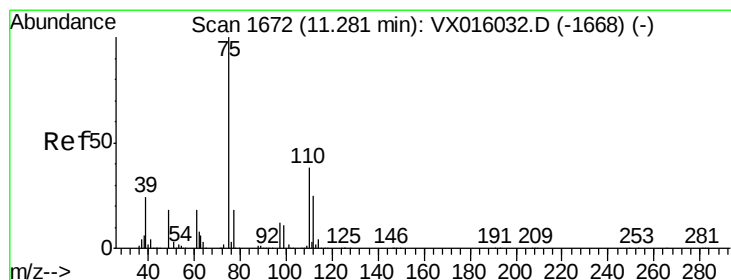
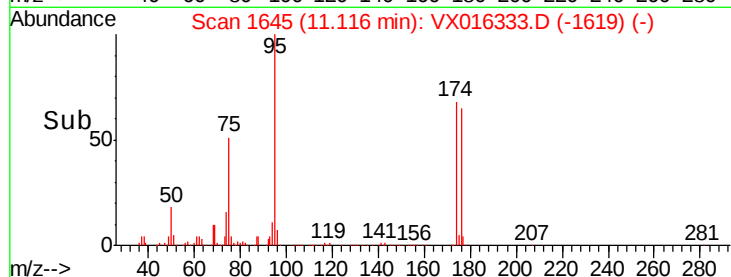
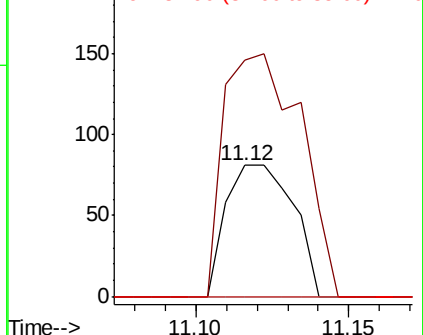
85 0.0 32.0 96.0#



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: 21.608 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016333.D

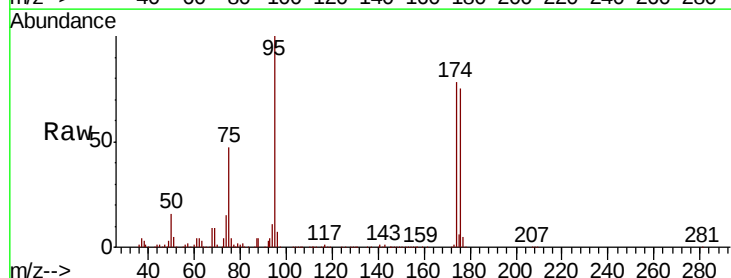
Acq: 19 May 2020 14:42

Tgt Ion: 75 Resp: 94775

Ion Ratio Lower Upper

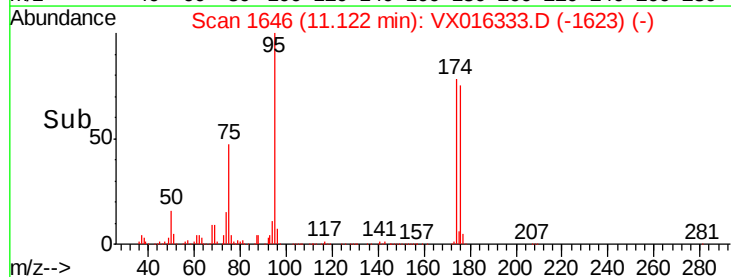
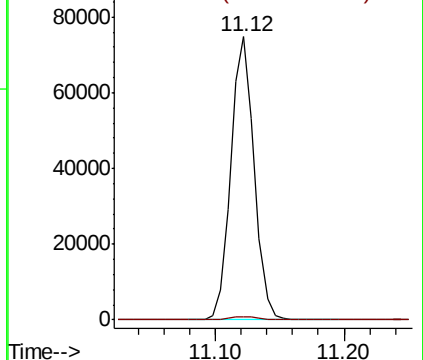
75 100

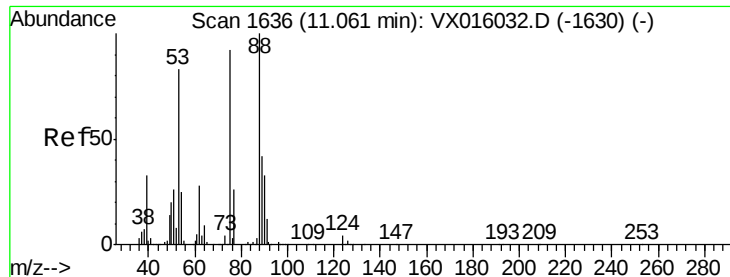
77 1.4 21.2 63.6#



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: 51.492 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

Instrument :

MSVOA_X

ClientSampleId :

WP021MW011-200514

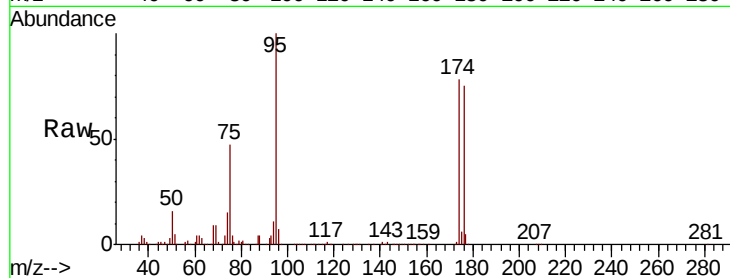
Tot Ion: 75 Resp: 94775

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

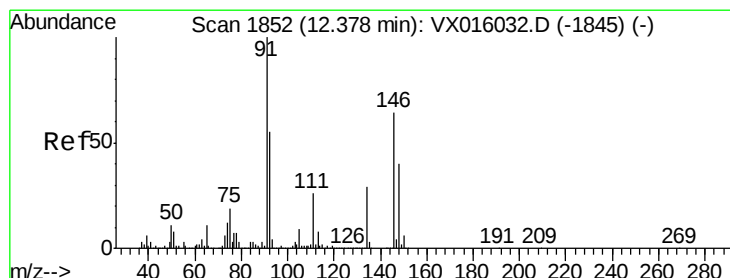
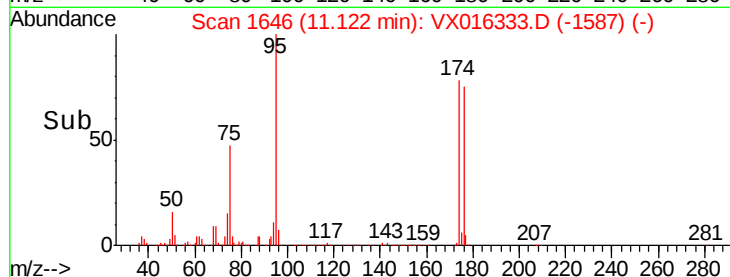
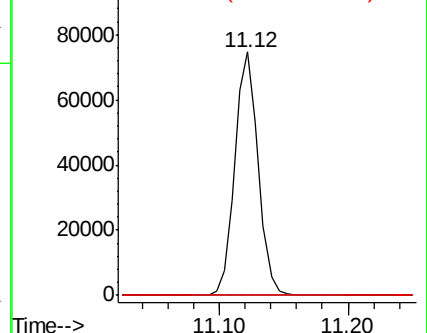
89 0.0 36.7 55.1#



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



#91

1,2-Dichlorobenzene

Concen: 0.407 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX016333.D

Acq: 19 May 2020 14:42

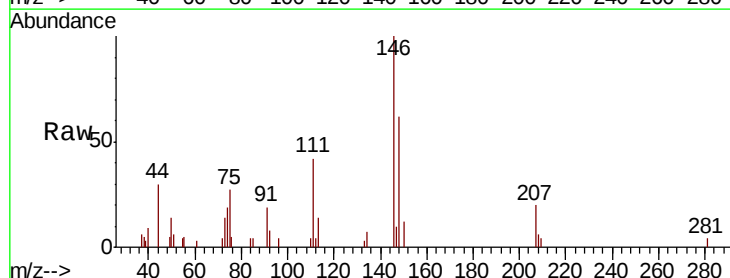
Tgt Ion: 146 Resp: 2556

Ion Ratio Lower Upper

146 100

111 41.5 21.1 63.1

148 65.0 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

