

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051920\
 Data File : VX016327.D
 Acq On : 19 May 2020 12:26
 Operator : JC/SP
 Sample : L2672-13DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW352-200514DL

Quant Time: May 20 03:45:48 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	226608	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	378247	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	378939	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	202137	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	135405	45.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.82%	
35) Dibromofluoromethane	5.46	113	114118	47.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.24%	
50) Toluene-d8	8.70	98	461559	49.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.98%	
62) 4-Bromofluorobenzene	11.12	95	198491	56.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.04%	

Target Compounds

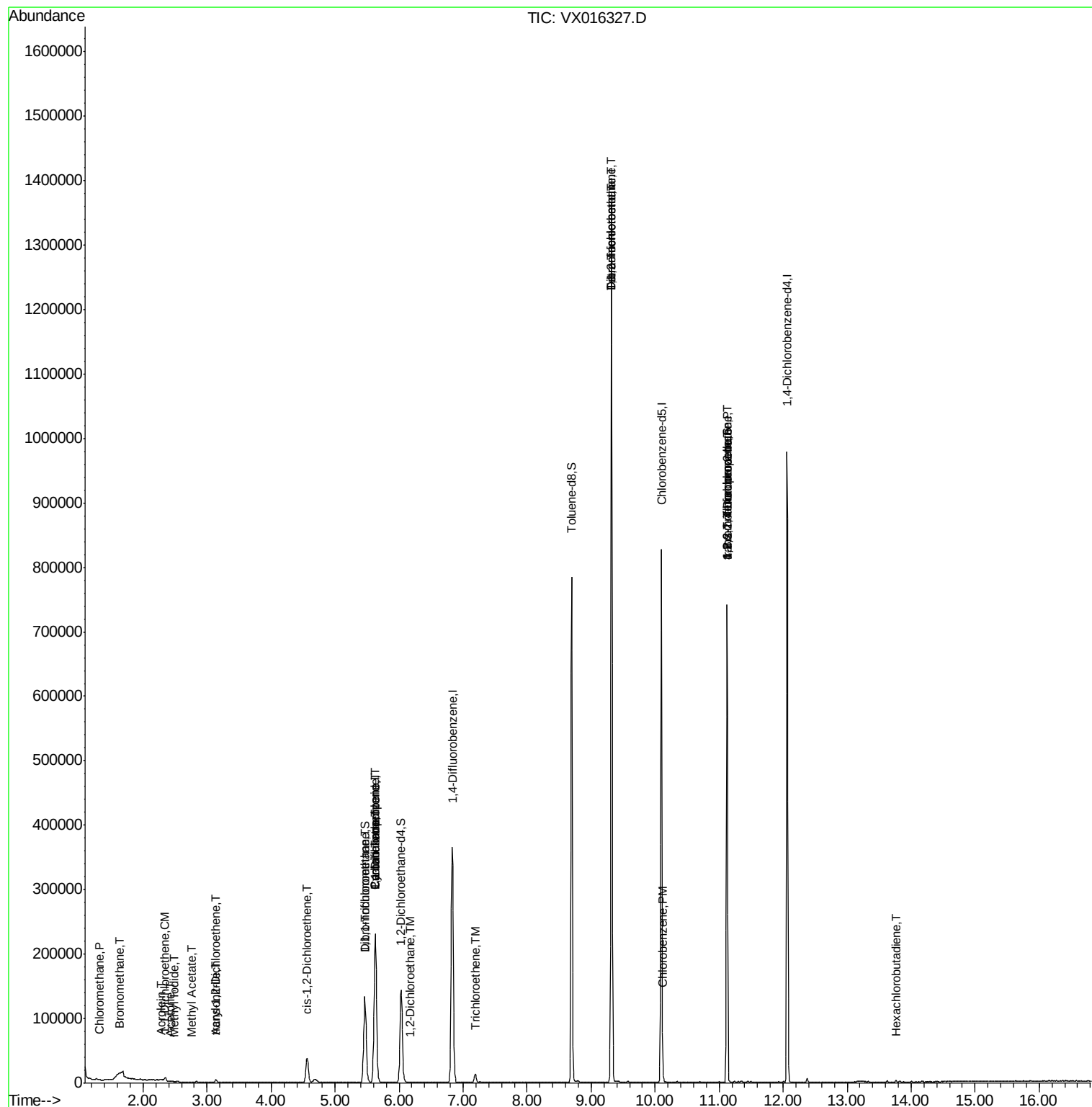
						Qvalue
3) Chloromethane	1.31	50	590	0.212	ug/l #	87
5) Bromomethane	1.62	94	539	0.360	ug/l #	49
10) Methyl Iodide	2.49	142	637	0.211	ug/l #	87
12) 1,1-Dichloroethene	2.35	96	1563	0.664	ug/l	89
13) Acrolein	2.27	56	577	1.223	ug/l #	74
15) Acrylonitrile	3.13	53	408	0.261	ug/l	92
16) Acetone	2.42	43	1075	0.808	ug/l #	88
18) Methyl Acetate	2.75	43	858	0.262	ug/l #	65
21) trans-1,2-Dichloroethene	3.14	96	1670	0.636	ug/l	88
27) cis-1,2-Dichloroethene	4.57	96	25739	8.969	ug/l	85
31) Cyclohexane	5.62	56	4046	0.977	ug/l #	1
32) 1,1,1-Trichloroethane	5.46	97	2848	0.690	ug/l #	50
36) 1,1-Dichloropropene	5.62	75	16738	4.495	ug/l #	49
38) Carbon Tetrachloride	5.62	117	21242	5.613	ug/l #	14
42) 1,2-Dichloroethane	6.17	62	1049	0.267	ug/l	80
44) Trichloroethene	7.18	130	4920	1.271	ug/l	89
55) 1,1,2-Trichloroethane	9.32	97	2270	0.850	ug/l #	1
60) Dibromochloromethane	9.32	129	256535	87.185	ug/l #	11
64) Tetrachloroethene	9.32	164	272854	58.654	ug/l	97
65) Chlorobenzene	10.12	112	3005	0.379	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.12	83	122	2.093	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	96001	20.929	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	96001	49.876	ug/l #	13
94) Hexachlorobutadiene	13.77	225	456	0.739	ug/l	83

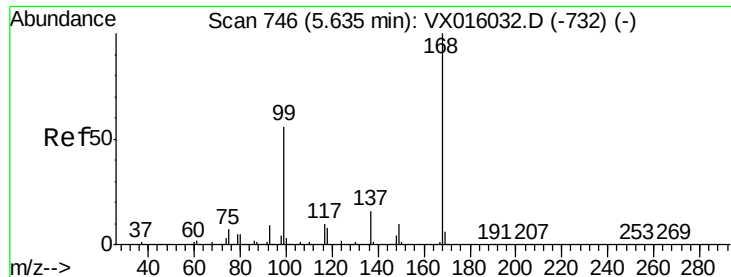
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

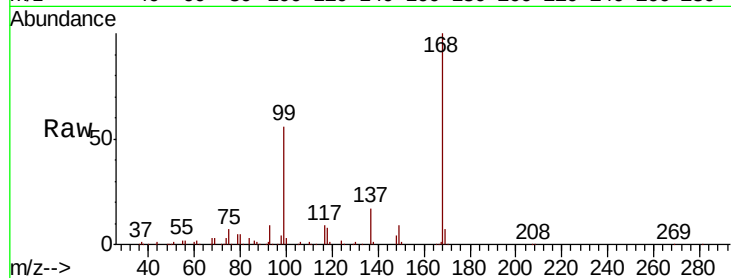
WP021MW352-200514DL

Tot Ion:168 Resp: 226608

Ion Ratio Lower Upper

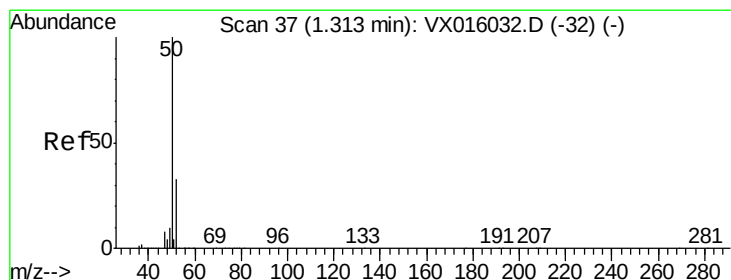
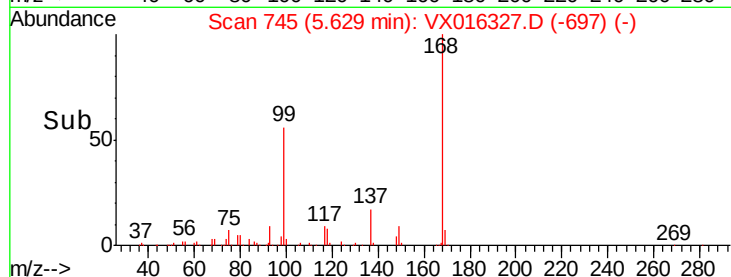
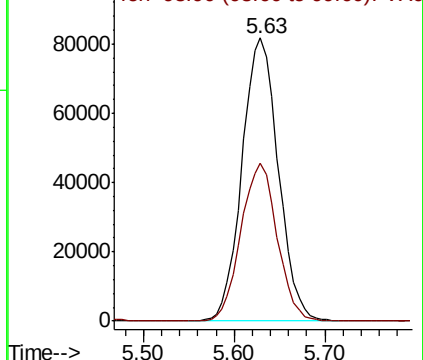
168 100

99 55.6 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.212 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016327.D

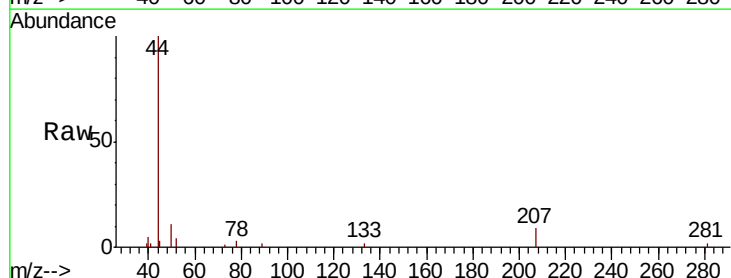
Acq: 19 May 2020 12:26

Tgt Ion: 50 Resp: 590

Ion Ratio Lower Upper

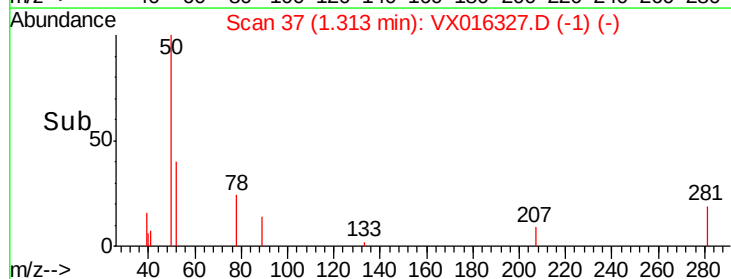
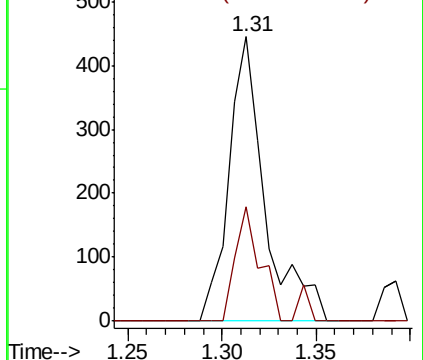
50 100

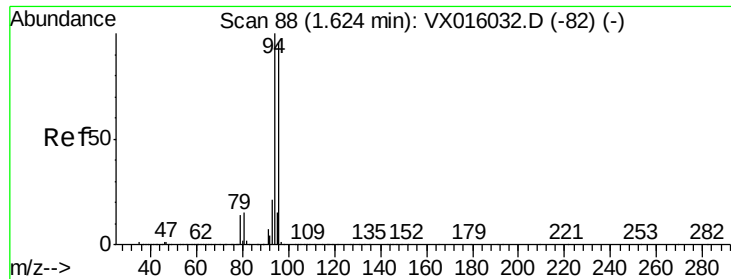
52 40.1 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.360 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

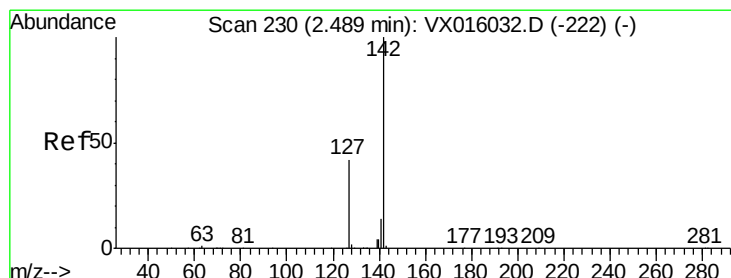
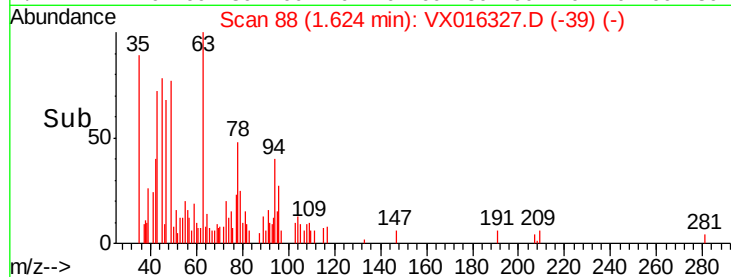
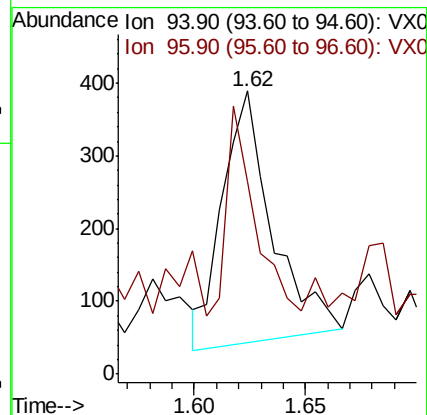
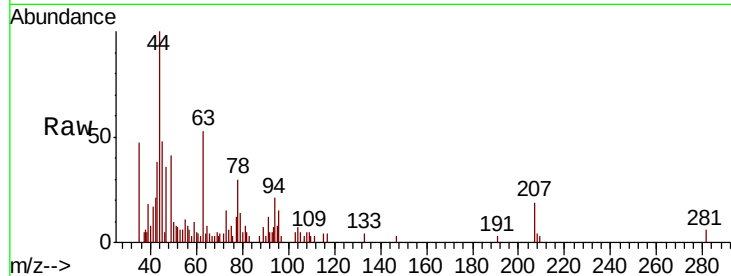
WP021MW352-200514DL

Tot Ion: 94 Resp: 539

Ion Ratio Lower Upper

94 100

96 46.5 76.9 115.3#



#10

Methyl Iodide

Concen: 0.211 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

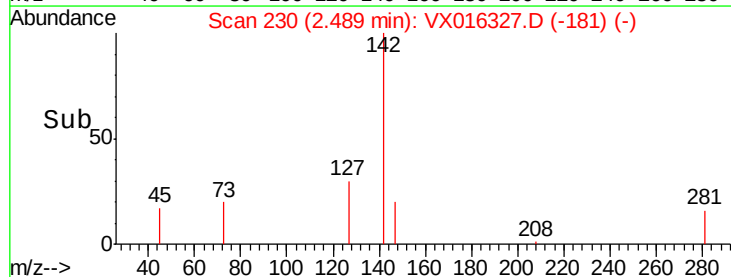
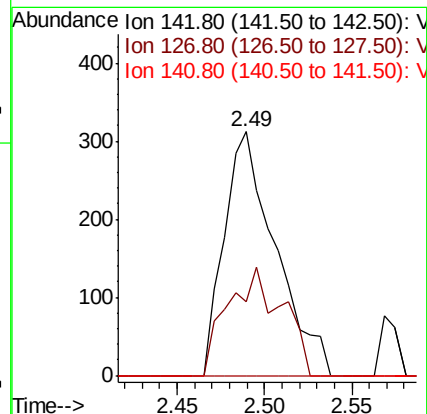
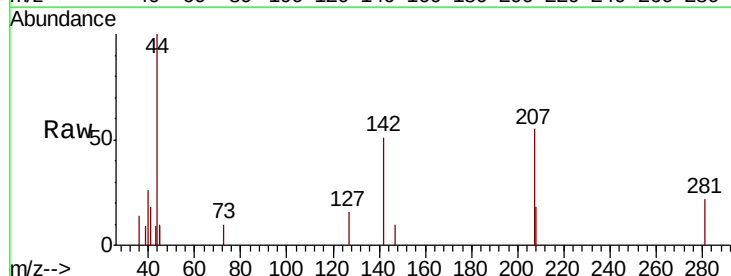
Tgt Ion: 142 Resp: 637

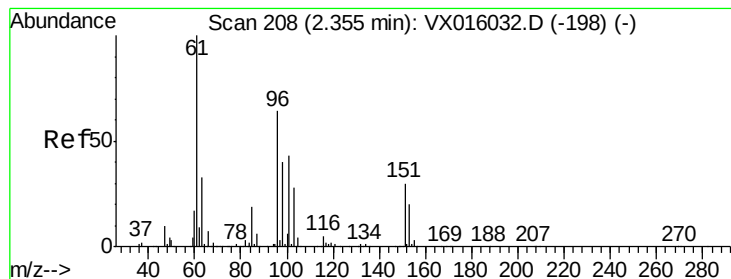
Ion Ratio Lower Upper

142 100

127 46.8 34.6 52.0

141 0.0 11.3 16.9#





#12

1,1-Dichloroethene

Concen: 0.664 ug/l

RT: 2.35 min Scan# 207

Delta R.T. -0.01 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

WP021MW352-200514DL

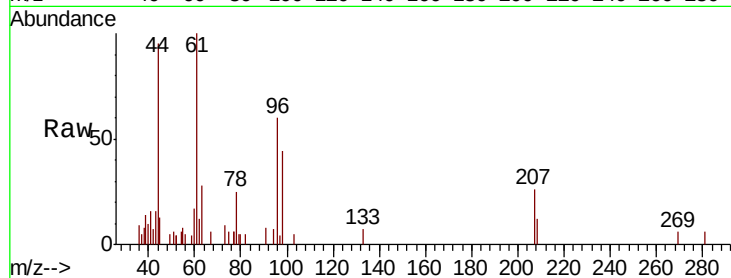
Tot Ion: 96 Resp: 1563

Ion Ratio Lower Upper

96 100

61 167.4 124.8 187.2

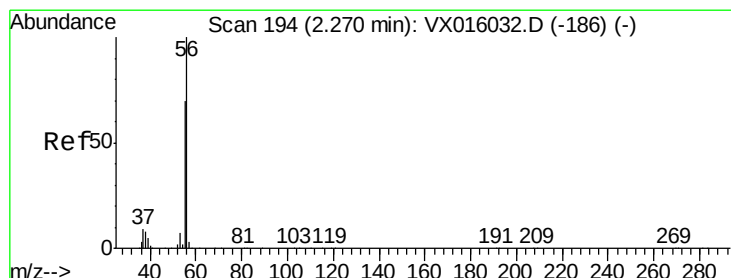
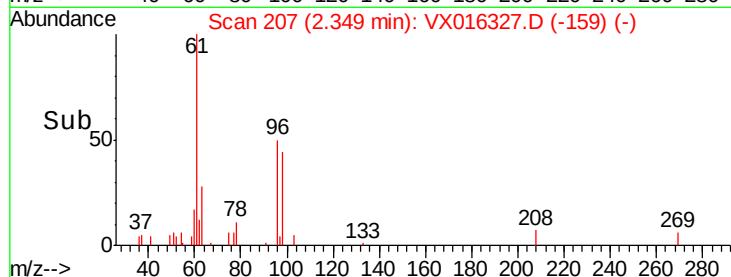
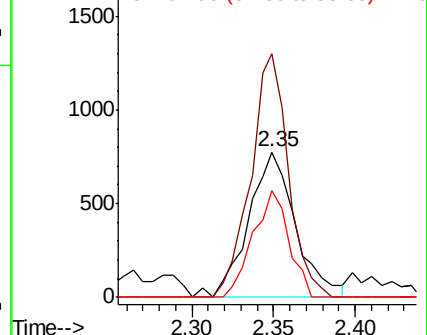
98 73.7 49.7 74.5



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



#13

Acrolein

Concen: 1.223 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX016327.D

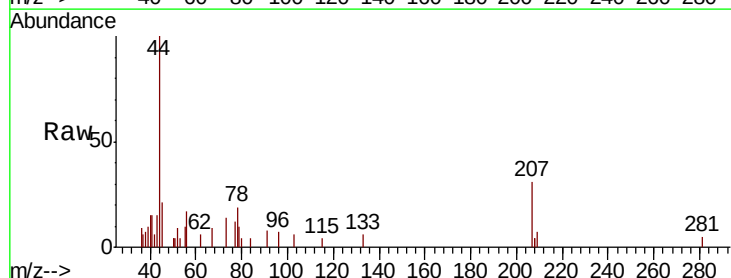
Acq: 19 May 2020 12:26

Tgt Ion: 56 Resp: 577

Ion Ratio Lower Upper

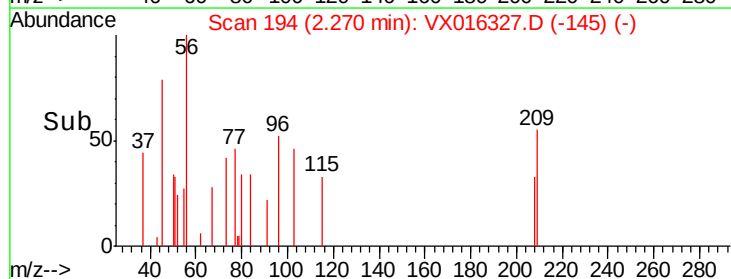
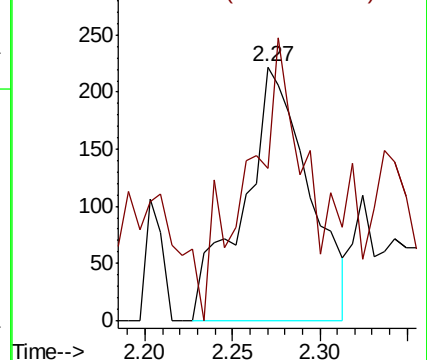
56 100

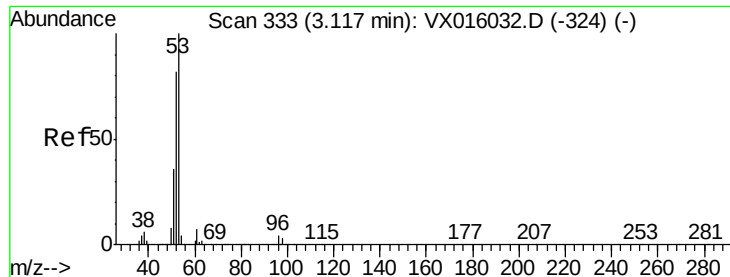
55 92.2 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.261 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

WP021MW352-200514DL

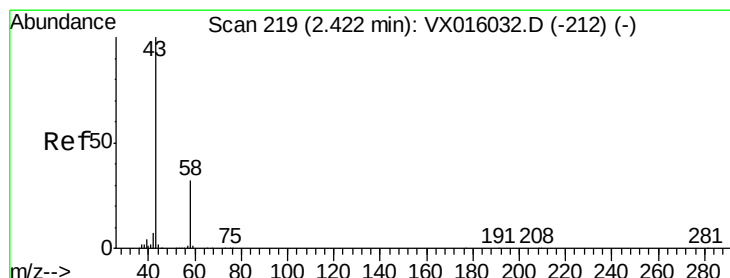
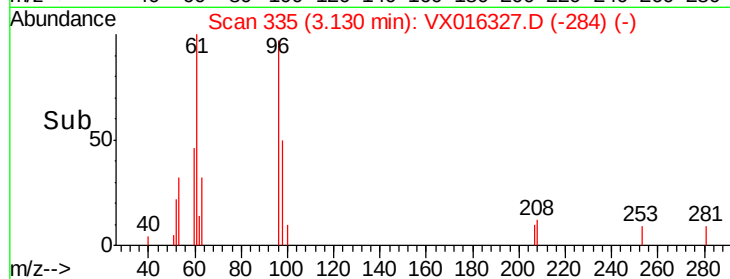
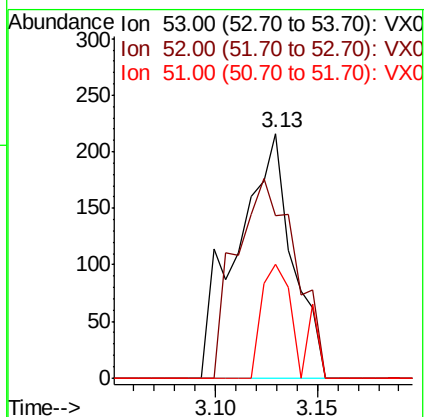
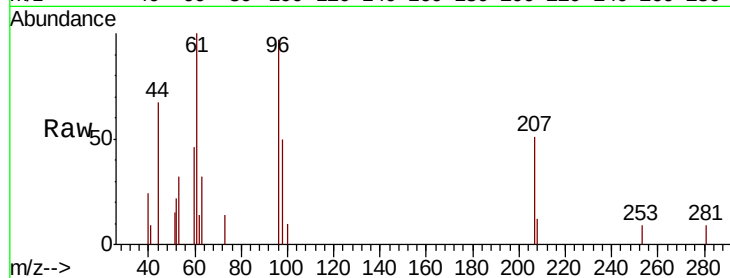
Tot Ion: 53 Resp: 408

Ion Ratio Lower Upper

53 100

52 88.0 66.1 99.1

51 29.4 28.8 43.2



#16

Acetone

Concen: 0.808 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX016327.D

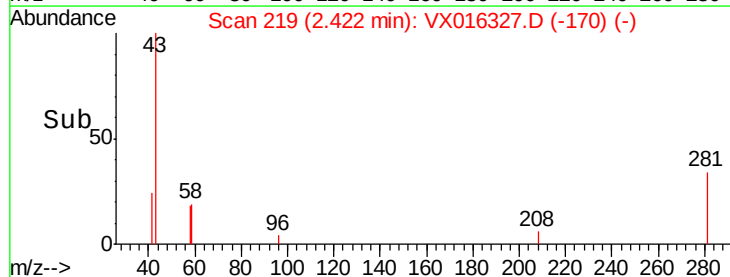
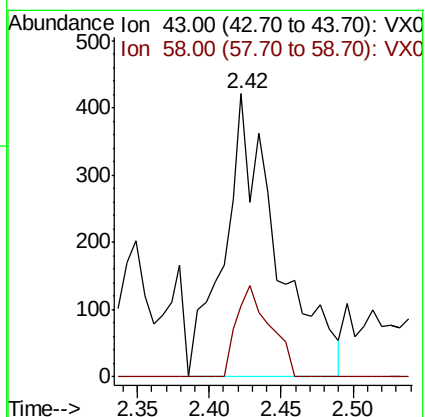
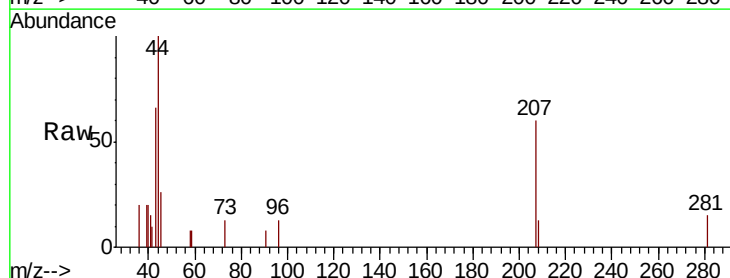
Acq: 19 May 2020 12:26

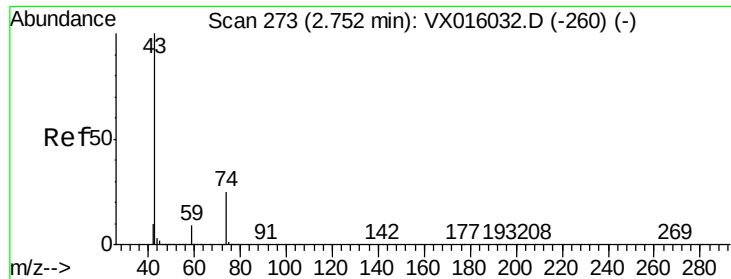
Tgt Ion: 43 Resp: 1075

Ion Ratio Lower Upper

43 100

58 24.9 25.4 38.0#

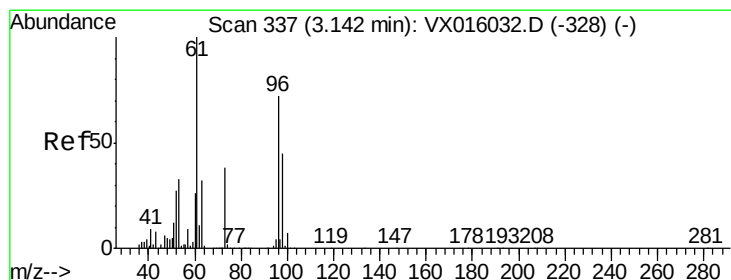
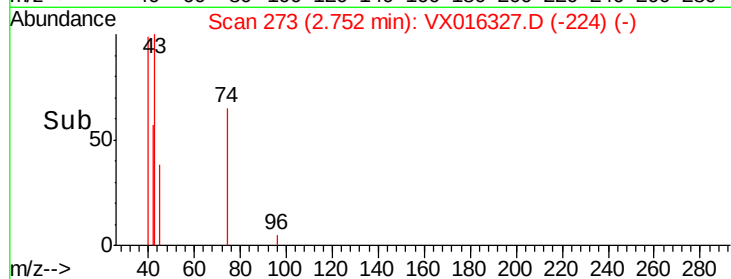
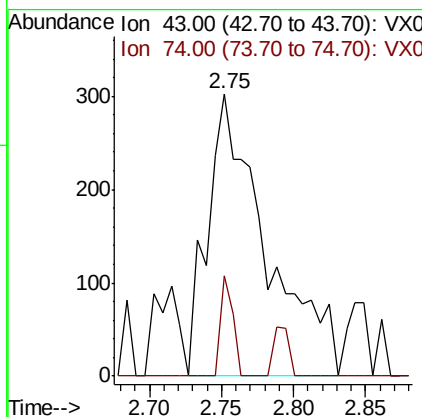
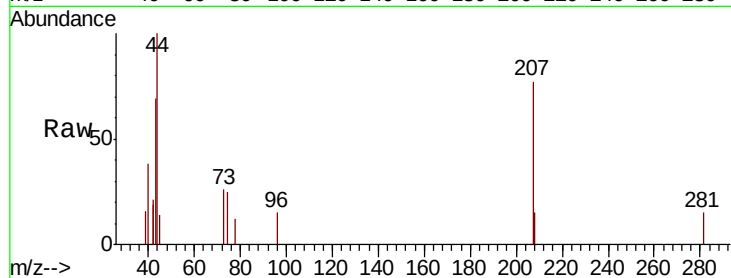




#18
Methyl Acetate
Concen: 0.262 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX016327.D
Acq: 19 May 2020 12:26

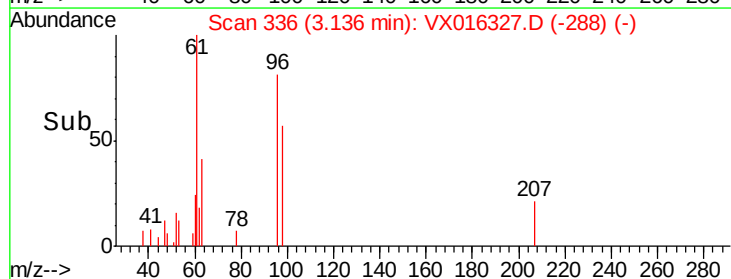
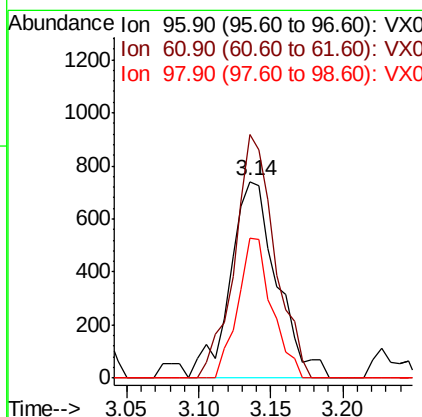
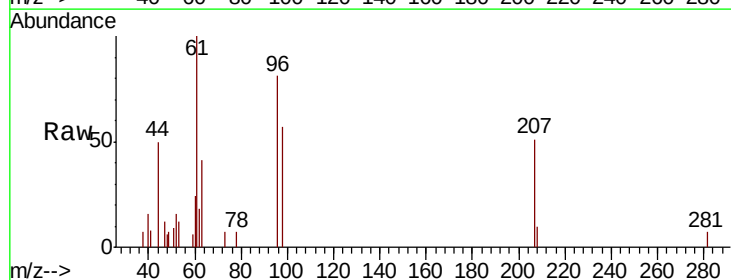
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ClientSampleId :
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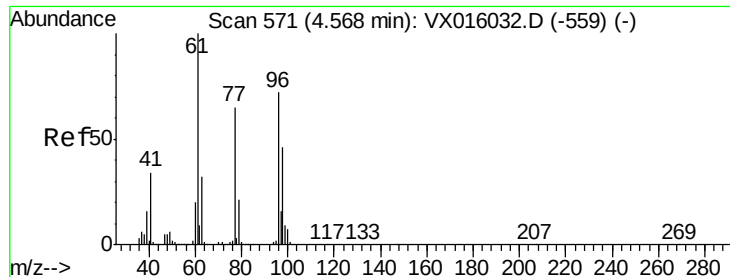
Tot Ion: 43 Resp: 858
Ion Ratio Lower Upper
43 100
74 7.5 20.2 30.2#



#21
trans-1,2-Dichloroethene
Concen: 0.636 ug/l
RT: 3.14 min Scan# 336
Delta R.T. -0.01 min
Lab File: VX016327.D
Acq: 19 May 2020 12:26

Tgt Ion: 96 Resp: 1670
Ion Ratio Lower Upper
96 100
61 123.9 111.2 166.8
98 71.1 50.2 75.4



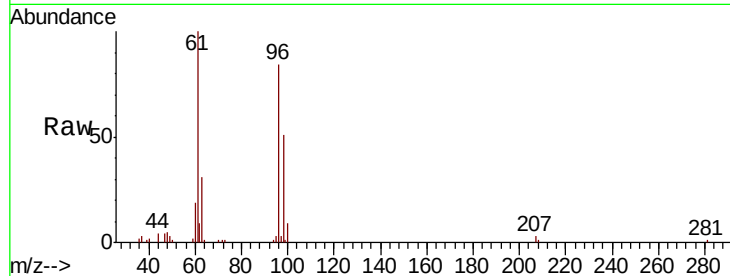


#27

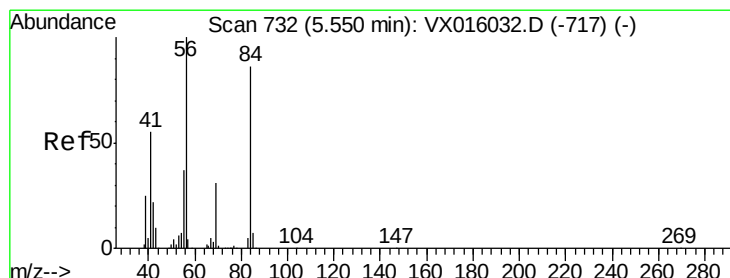
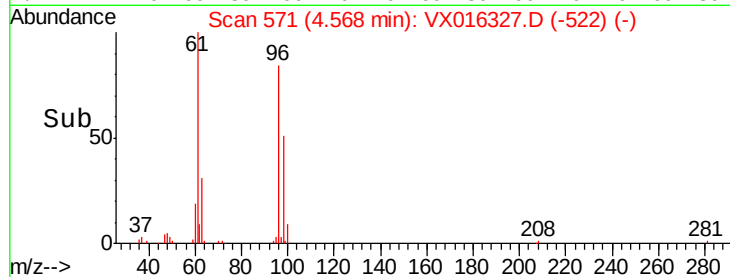
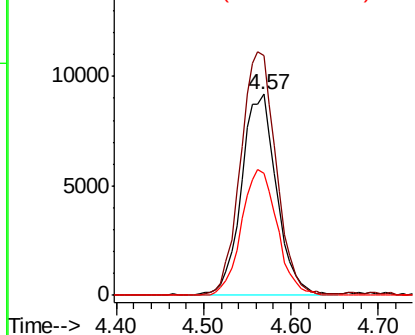
cis-1,2-Dichloroethene
Concen: 8.969 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.00 min
Lab File: VX016327.D
Acq: 19 May 2020 12:26

Instrument :
MSVOA_X
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
96	100		
61	121.8	0.0	296.2
98	63.1	0.0	129.4



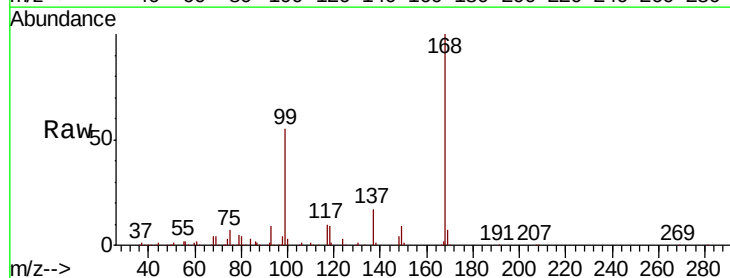
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



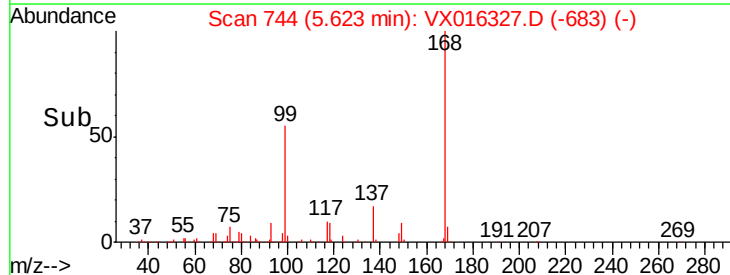
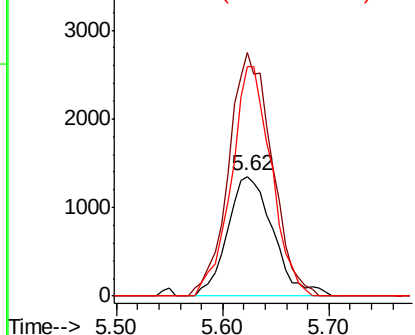
#31

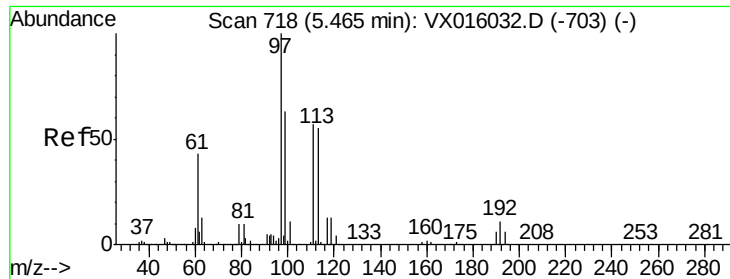
Cyclohexane
Concen: 0.977 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX016327.D
Acq: 19 May 2020 12:26

Tgt Ion	Ratio	Lower	Upper
56	100		
69	202.9	25.0	37.6#
84	191.1	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





#32

1,1,1-Trichloroethane

Concen: 0.690 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.01 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

WP021MW352-200514DL

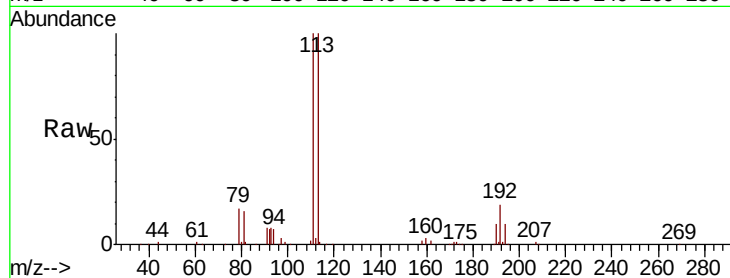
Tot Ion: 97 Resp: 2848

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4#

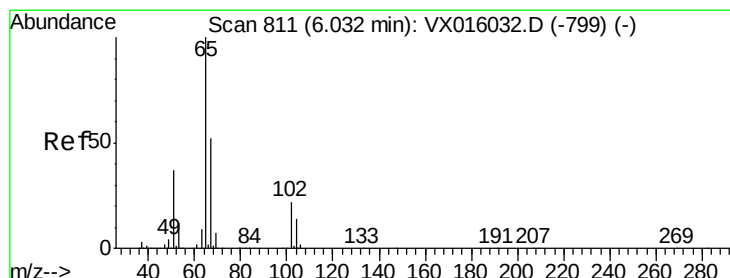
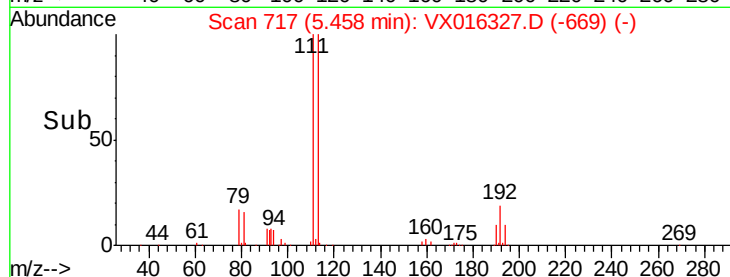
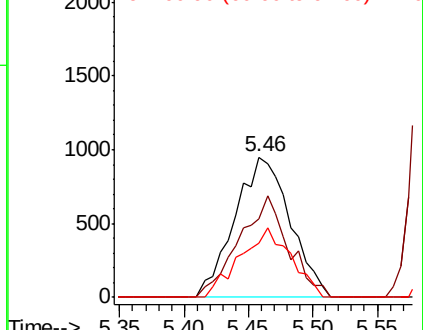
61 45.1 34.5 51.7



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.409 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016327.D

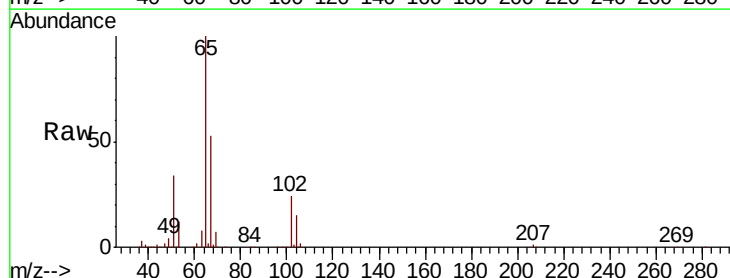
Acq: 19 May 2020 12:26

Tgt Ion: 65 Resp: 135405

Ion Ratio Lower Upper

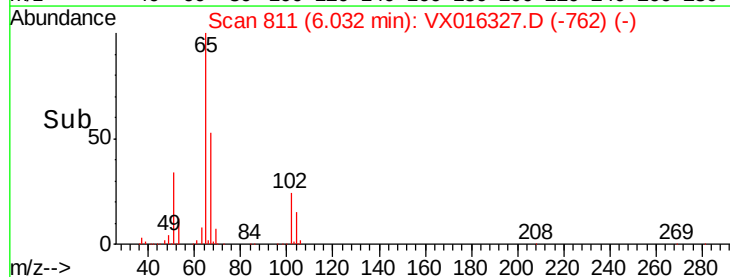
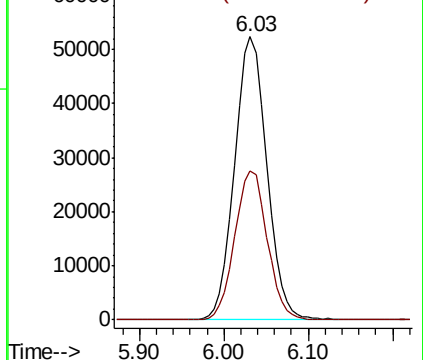
65 100

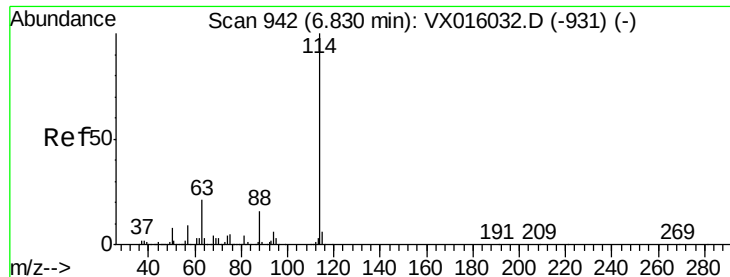
67 53.0 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

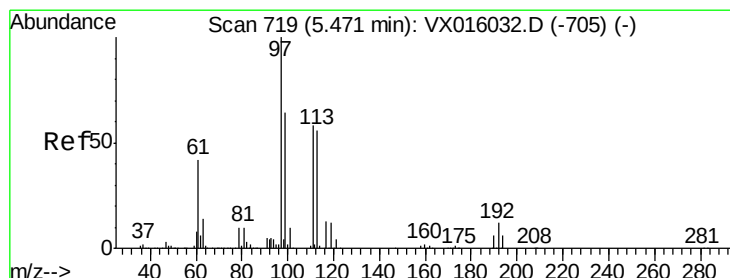
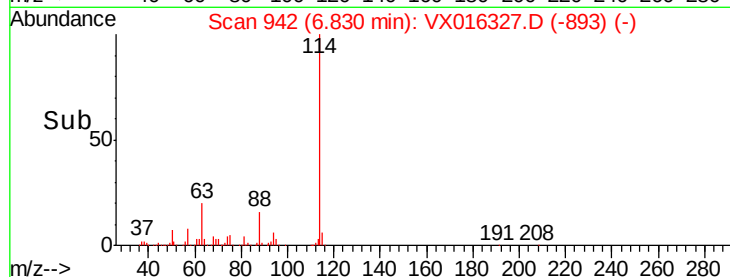
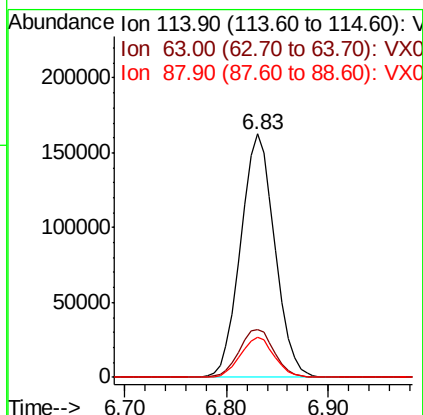
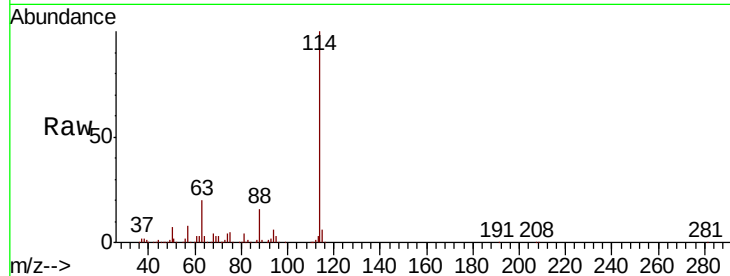




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.83 min Scan# 942
Delta R.T. 0.00 min
Lab File: VX016327.D
Acq: 19 May 2020 12:26

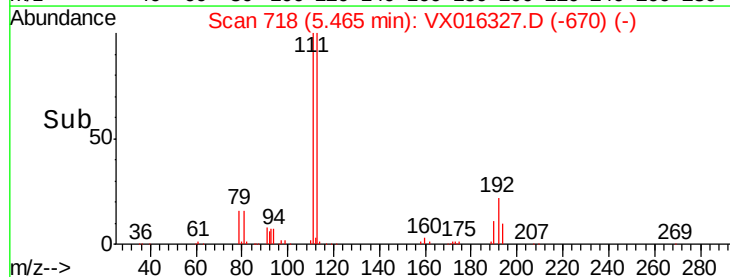
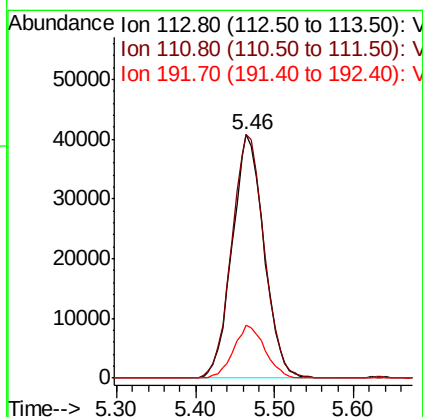
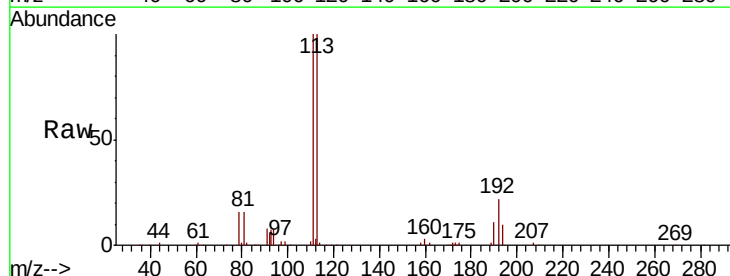
Instrument :
MSVOA_X
ClientSampleId :
WP021MW352-200514DL

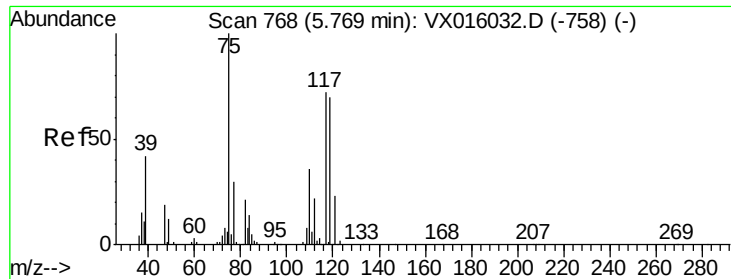
Tot Ion:114 Resp: 378247
Ion Ratio Lower Upper
114 100
63 19.8 0.0 42.8
88 16.2 0.0 31.4



#35
Dibromofluoromethane
Concen: 47.621 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.01 min
Lab File: VX016327.D
Acq: 19 May 2020 12:26

Tgt Ion:113 Resp: 114118
Ion Ratio Lower Upper
113 100
111 102.0 81.6 122.4
192 21.4 17.0 25.4





#36

1,1-Dichloropropene

Concen: 4.495 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

WP021MW352-200514DL

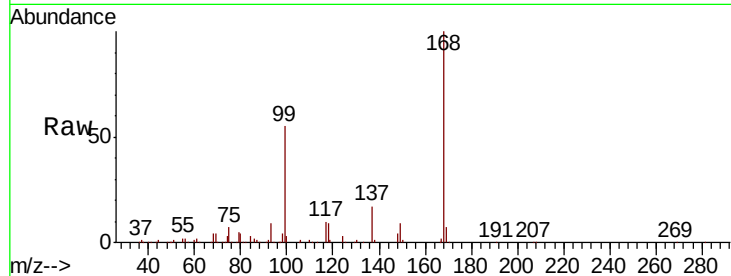
Tot Ion: 75 Resp: 16738

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.1#

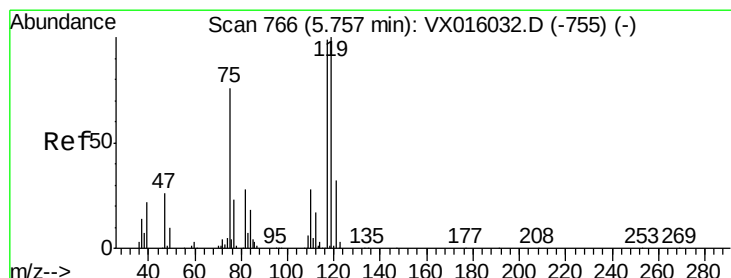
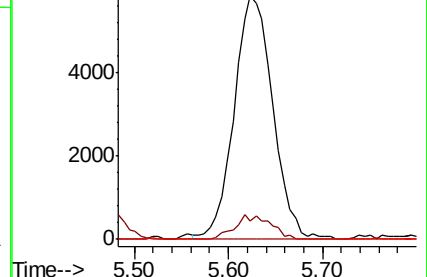
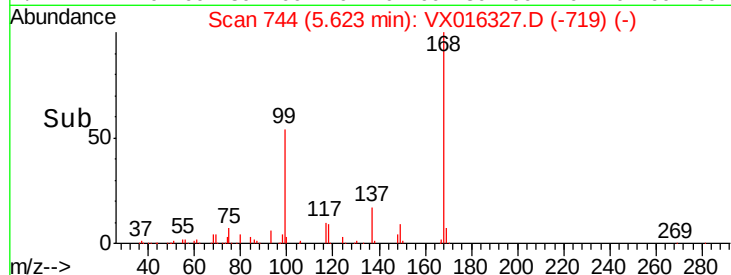
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX016327.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX016327.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX016327.D (-719) (-)



#38

Carbon Tetrachloride

Concen: 5.613 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

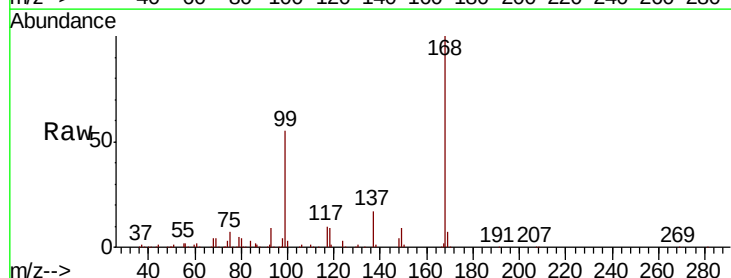
Tgt Ion: 117 Resp: 21242

Ion Ratio Lower Upper

117 100

119 5.4 80.3 120.5#

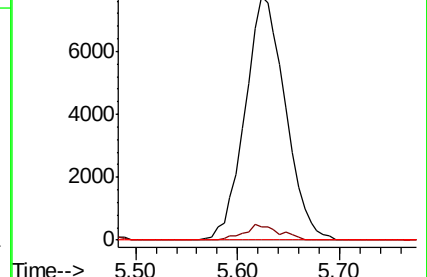
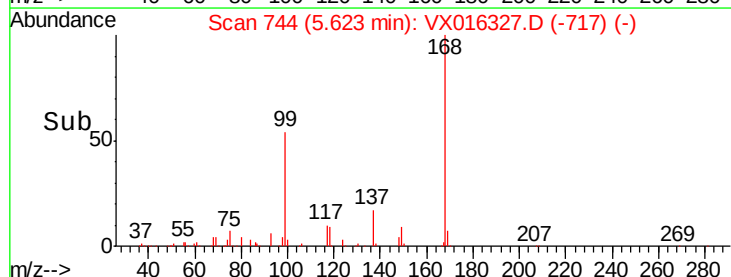
121 0.0 25.7 38.5#

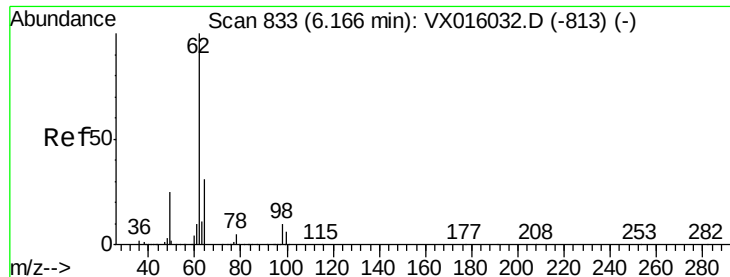


Abundance Ion 116.80 (116.50 to 117.50): VX016327.D (-717) (-)

Ion 118.80 (118.50 to 119.50): VX016327.D (-717) (-)

Ion 120.80 (120.50 to 121.50): VX016327.D (-717) (-)

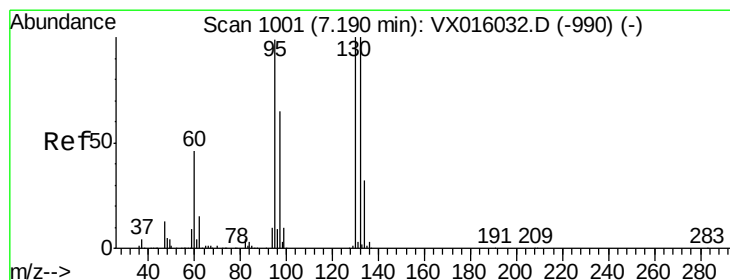
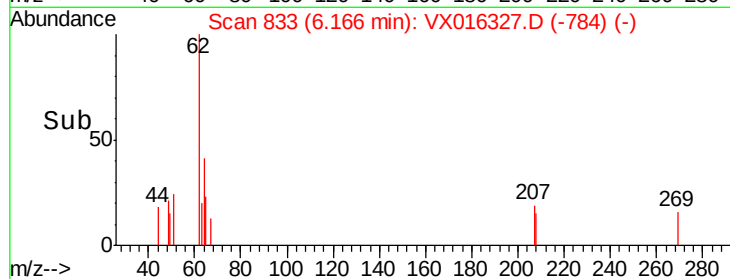
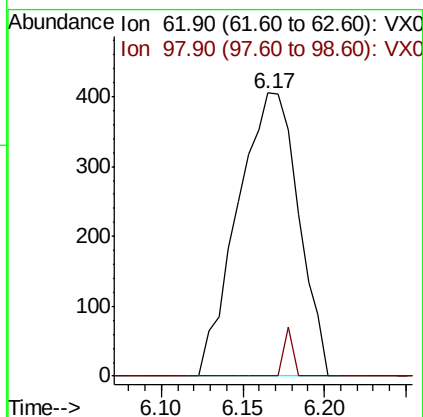
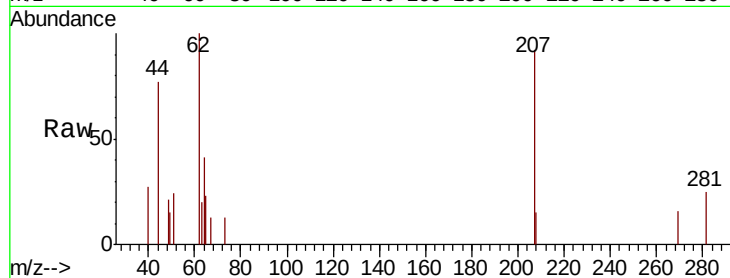




#42
1,2-Dichloroethane
Concen: 0.267 ug/l
RT: 6.17 min Scan# 833
Delta R.T. 0.00 min
Lab File: VX016327.D
Acq: 19 May 2020 12:26

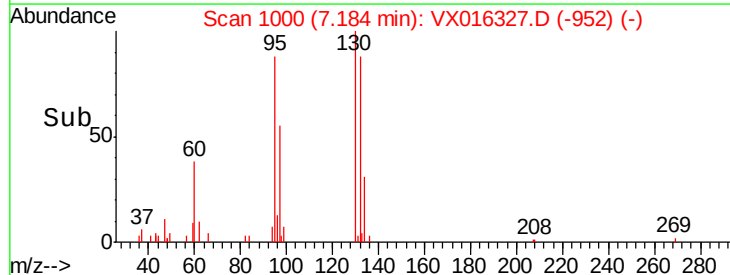
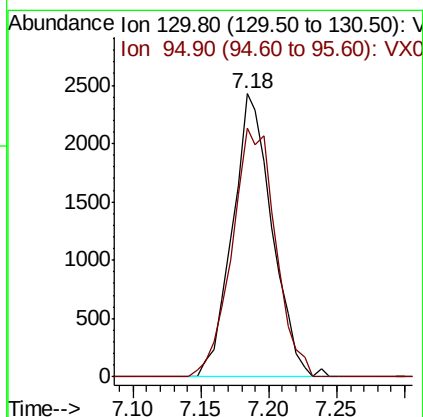
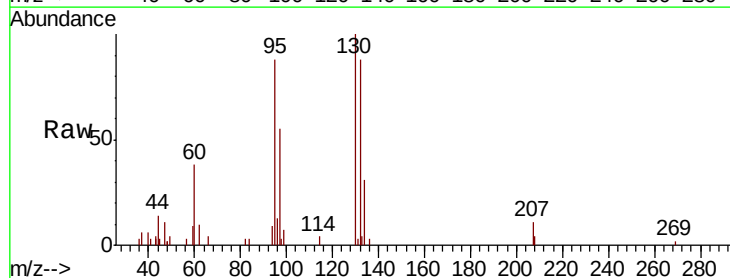
Instrument :
MSVOA_X
ClientSampleId :
WP021MW352-200514DL

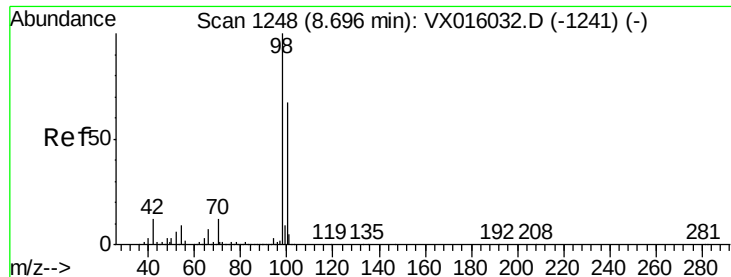
Tot Ion: 62 Resp: 1049
Ion Ratio Lower Upper
62 100
98 2.5 0.0 19.4



#44
Trichloroethene
Concen: 1.271 ug/l
RT: 7.18 min Scan# 1000
Delta R.T. -0.01 min
Lab File: VX016327.D
Acq: 19 May 2020 12:26

Tgt Ion:130 Resp: 4920
Ion Ratio Lower Upper
130 100
95 88.1 0.0 197.4





#50

Toluene-d8

Concen: 49.988 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

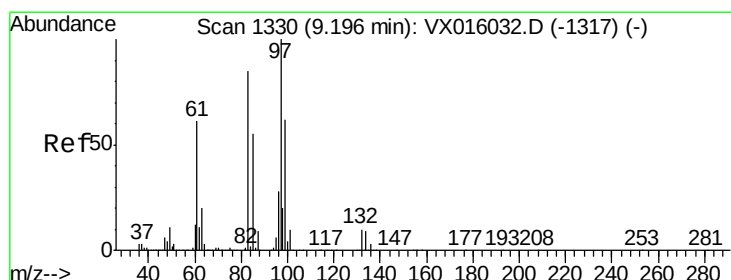
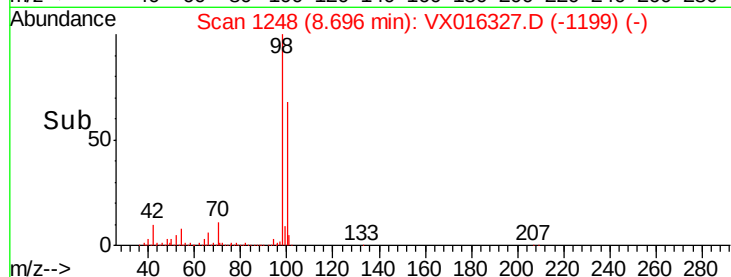
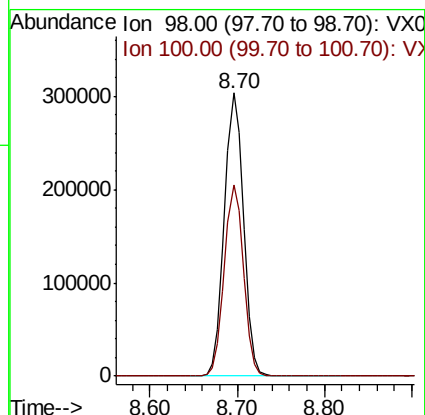
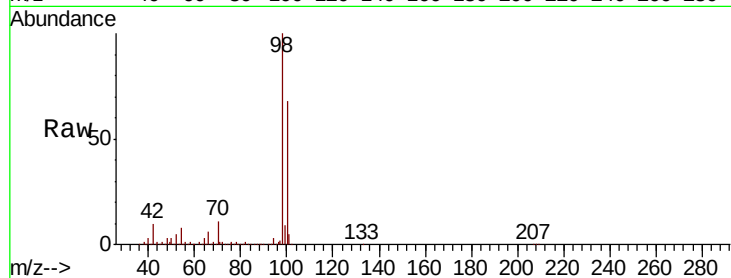
WP021MW352-200514DL

Tot Ion: 98 Resp: 461559

Ion Ratio Lower Upper

98 100

100 67.6 53.7 80.5



#55

1,1,2-Trichloroethane

Concen: 0.850 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.12 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Tgt Ion: 97 Resp: 2270

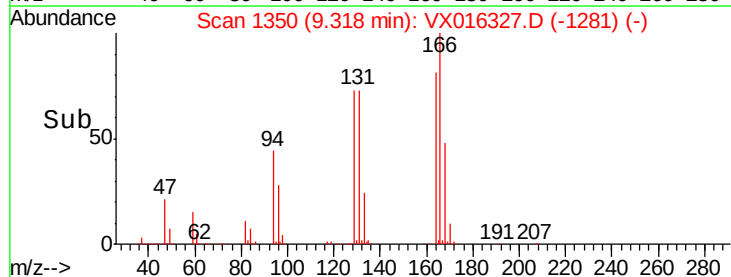
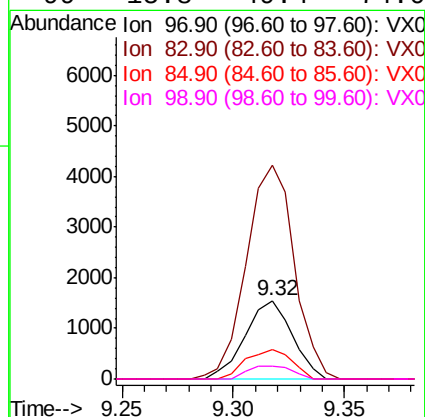
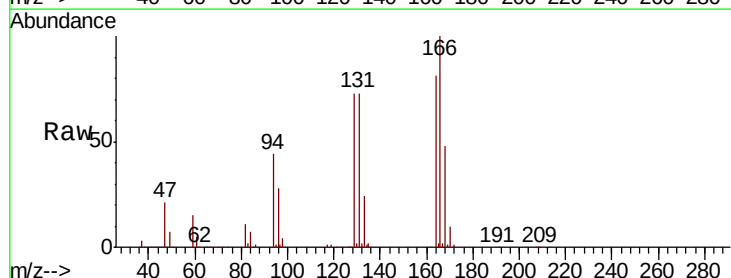
Ion Ratio Lower Upper

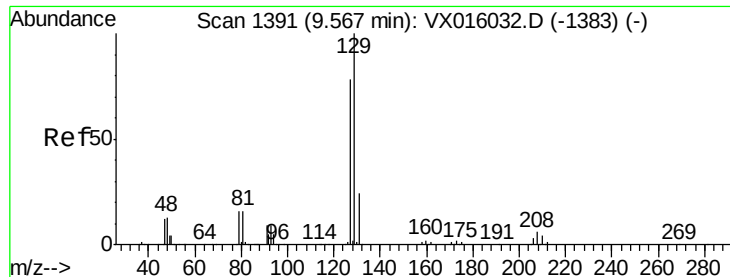
97 100

83 273.6 67.8 101.8#

85 37.5 43.8 65.8#

99 15.8 49.4 74.0#





#60

Dibromochloromethane

Concen: 87.185 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

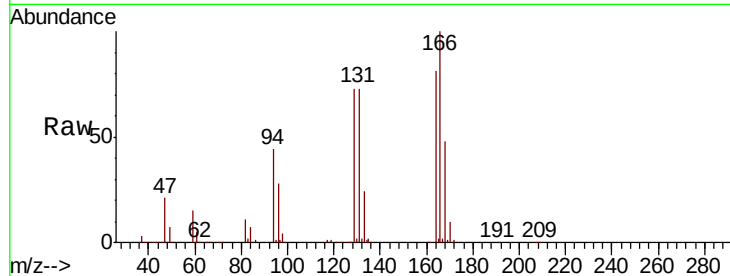
WP021MW352-200514DL

Tot Ion:129 Resp: 256535

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

200000

150000

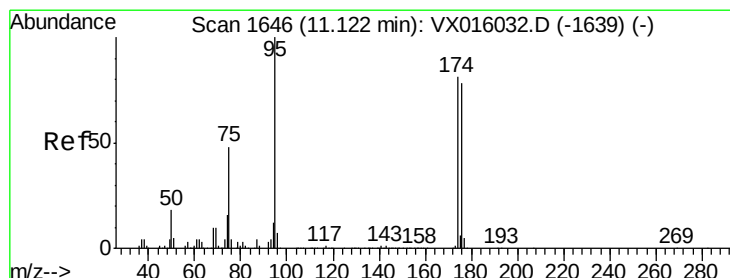
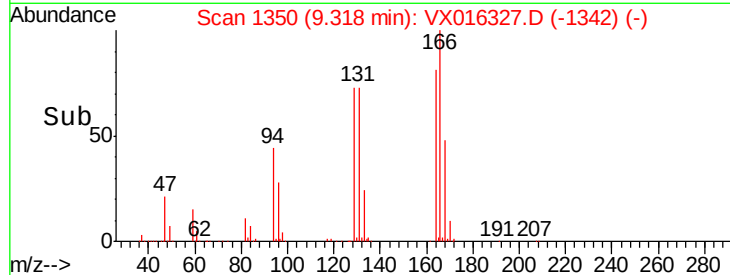
100000

50000

0

9.25 9.30 9.35 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 56.519 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

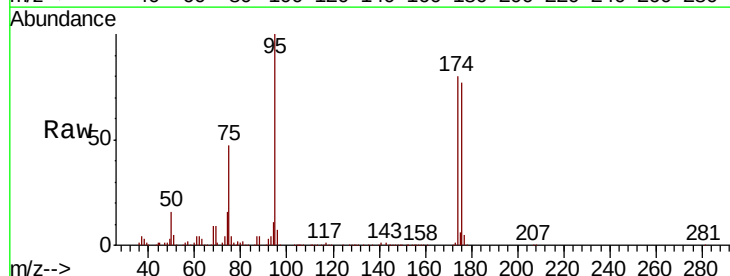
Tgt Ion: 95 Resp: 198491

Ion Ratio Lower Upper

95 100

174 80.8 0.0 159.4

176 77.5 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

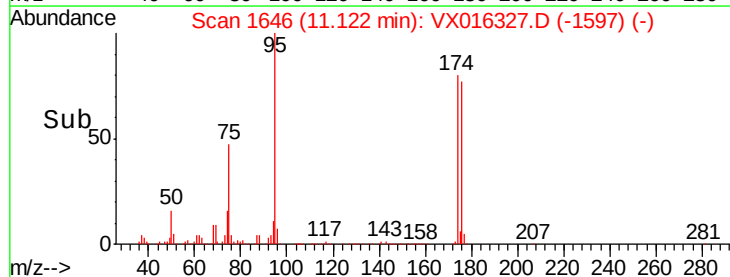
100000

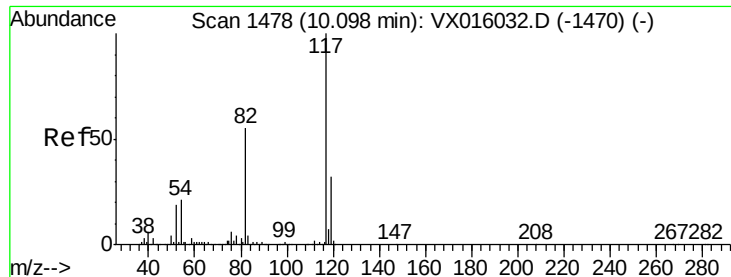
50000

0

11.10 11.12 11.14 11.16 11.18 11.20

Time-->

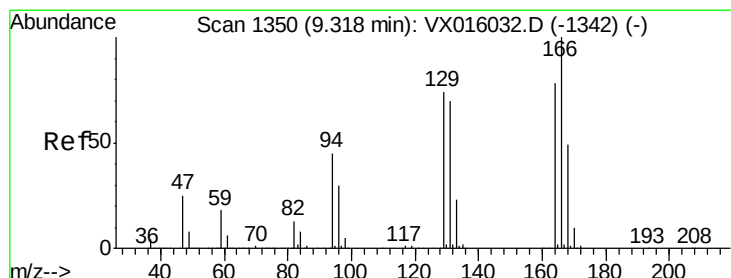
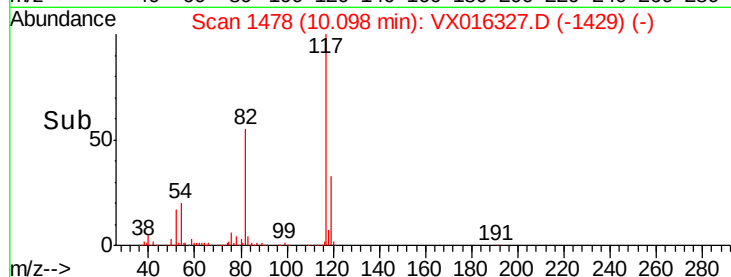
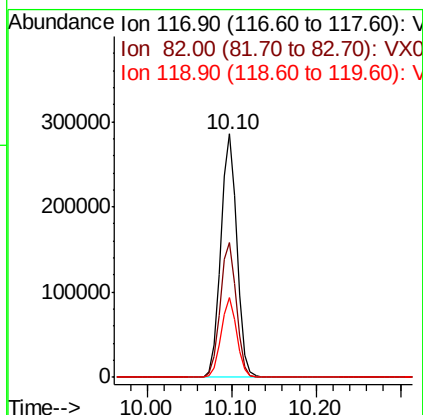
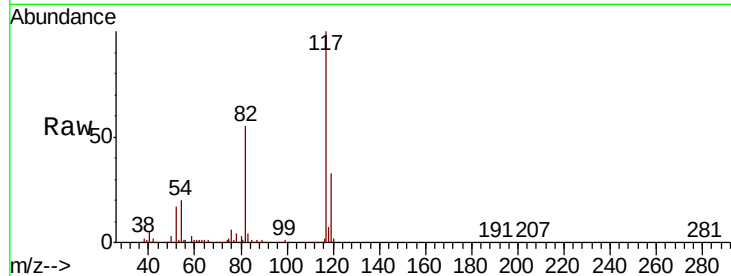




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016327.D
Acq: 19 May 2020 12:26

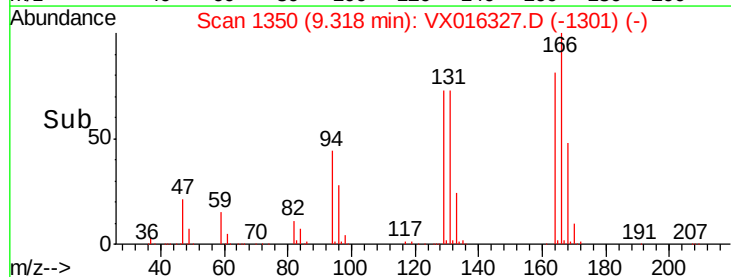
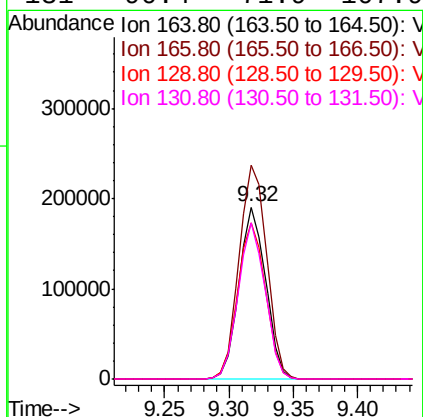
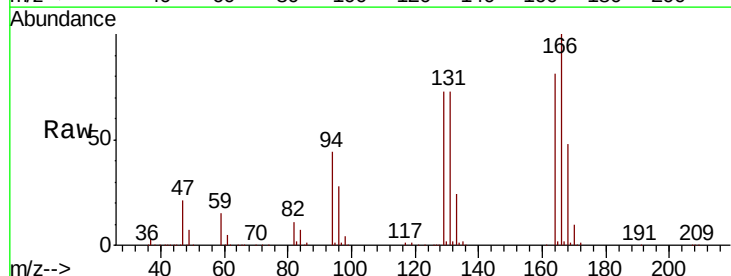
Instrument :
MSVOA_X
ClientSampleId :
WP021MW352-200514DL

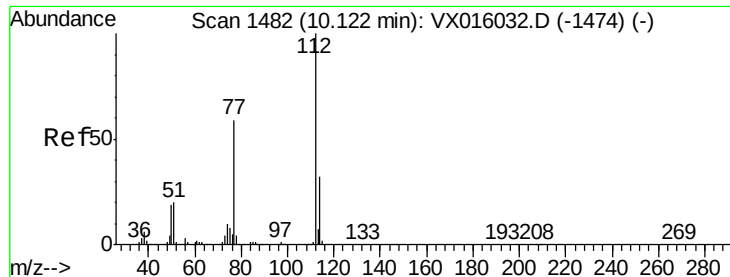
Tot Ion:117 Resp: 378939
Ion Ratio Lower Upper
117 100
82 55.4 44.4 66.6
119 32.8 25.5 38.3



#64
Tetrachloroethene
Concen: 58.654 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX016327.D
Acq: 19 May 2020 12:26

Tgt Ion:164 Resp: 272854
Ion Ratio Lower Upper
164 100
166 124.1 102.9 154.3
129 90.9 76.1 114.1
131 90.4 71.9 107.9





#65

Chlorobenzene

Concen: 0.379 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

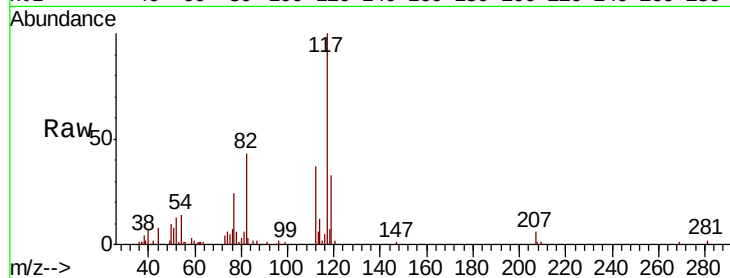
WP021MW352-200514DL

Tot Ion:112 Resp: 3005

Ion Ratio Lower Upper

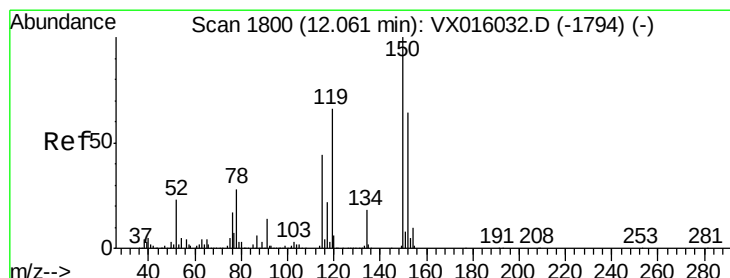
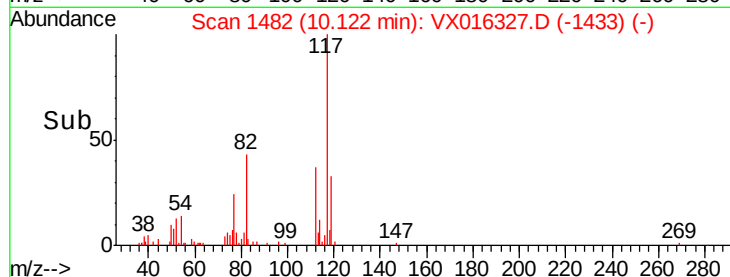
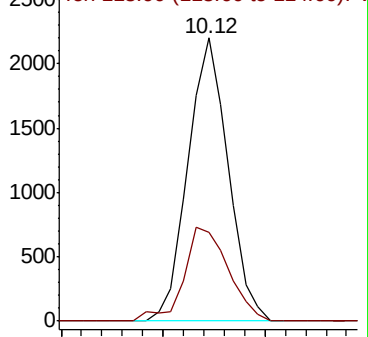
112 100

114 31.2 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

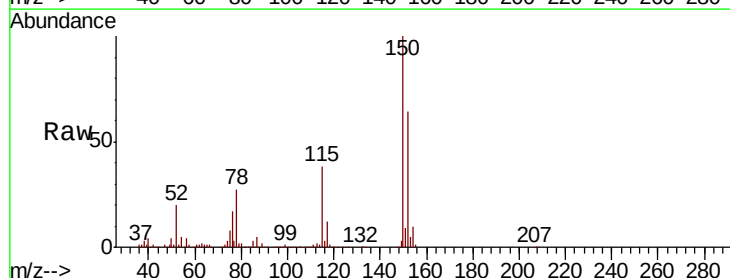
Tgt Ion:152 Resp: 202137

Ion Ratio Lower Upper

152 100

115 59.1 41.3 124.1

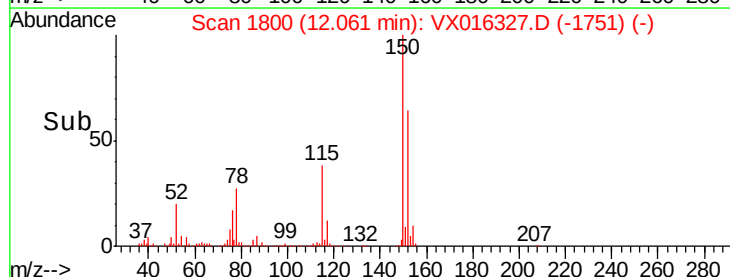
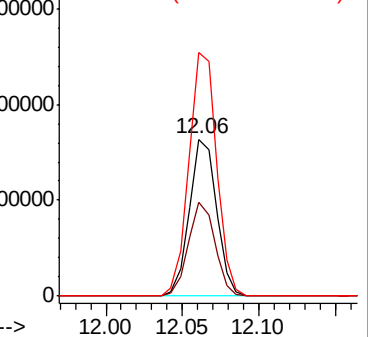
150 158.0 0.0 352.2

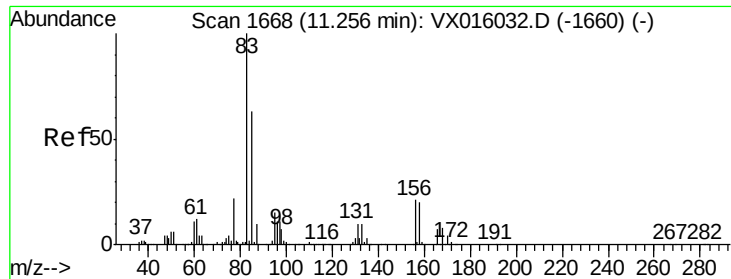


Abundance Ion 151.90 (151.60 to 152.60): V

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: 2.093 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

WP021MW352-200514DL

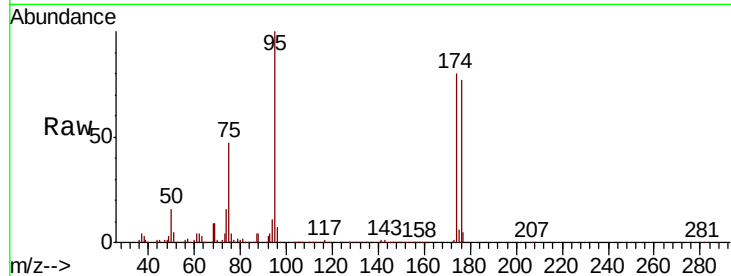
Tot Ion: 83 Resp: 122

Ion Ratio Lower Upper

83 100

131 223.8 5.1 15.4#

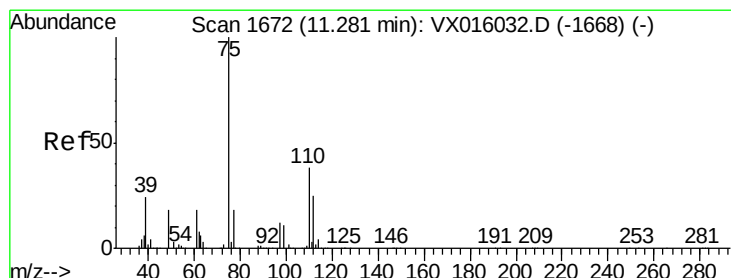
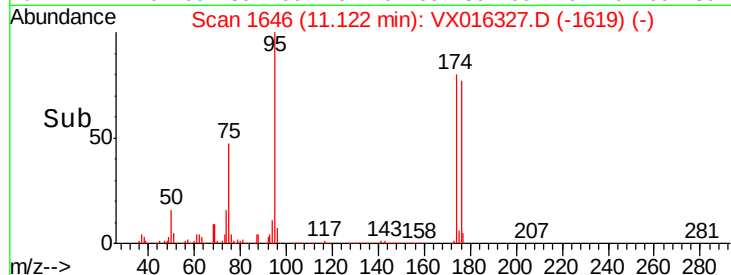
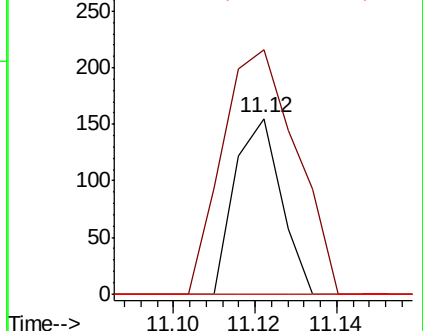
85 0.0 32.0 96.0#



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: 20.929 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016327.D

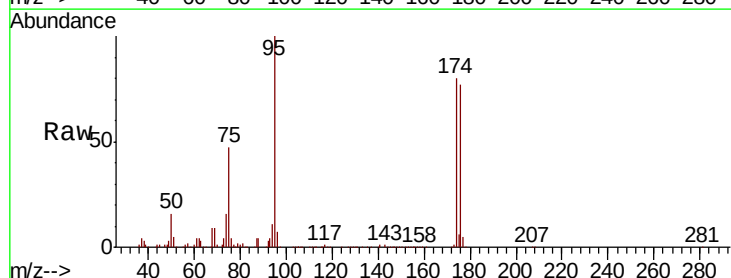
Acq: 19 May 2020 12:26

Tgt Ion: 75 Resp: 96001

Ion Ratio Lower Upper

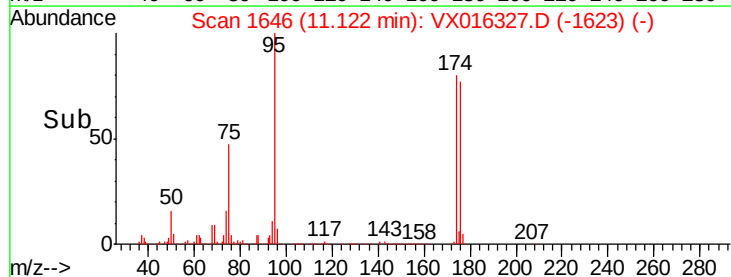
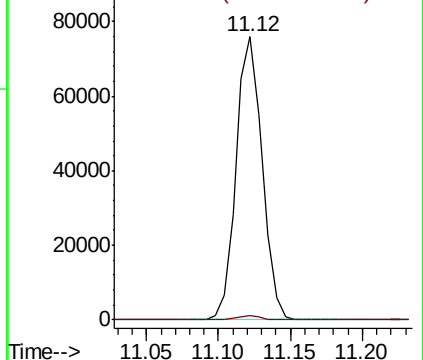
75 100

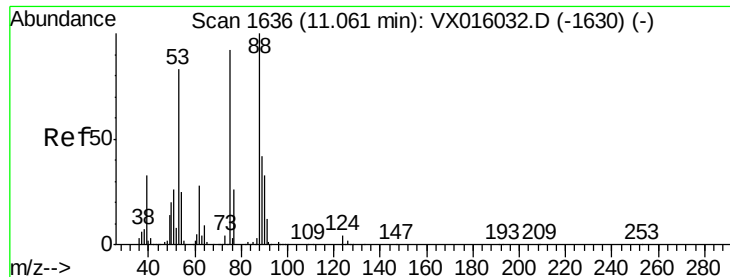
77 1.4 21.2 63.6#



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: 49.876 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

Instrument :

MSVOA_X

ClientSampleId :

WP021MW352-200514DL

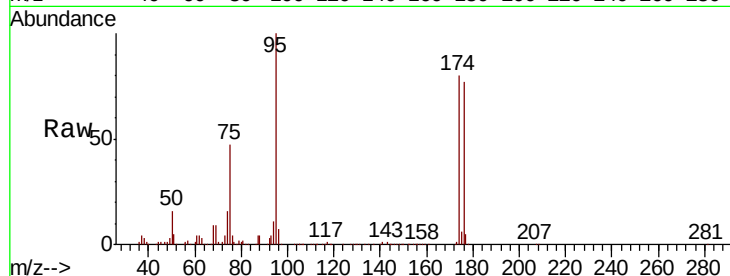
Tot Ion: 75 Resp: 96001

Ion Ratio Lower Upper

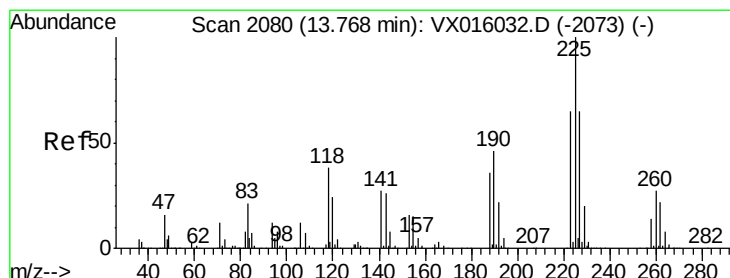
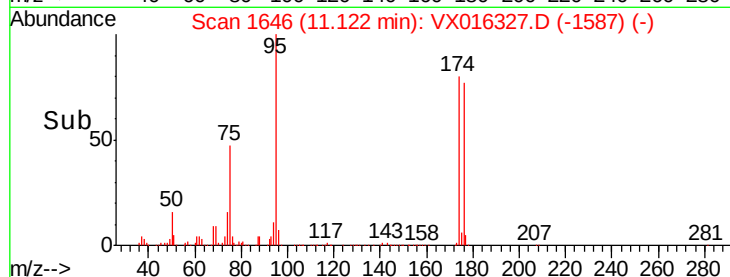
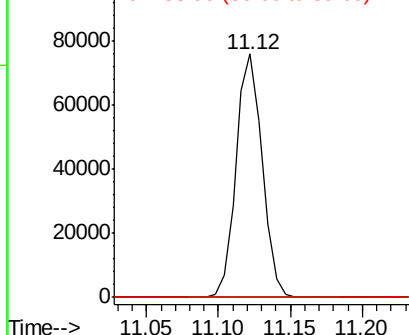
75 100

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



#94

Hexachlorobutadiene

Concen: 0.739 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016327.D

Acq: 19 May 2020 12:26

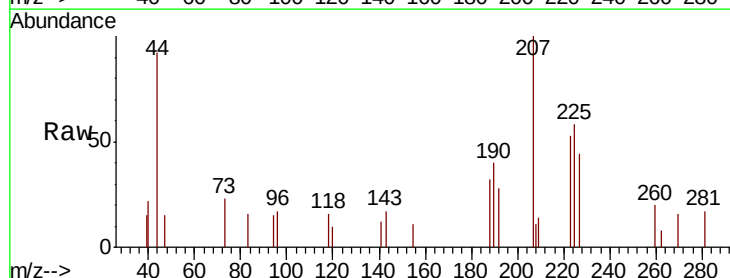
Tgt Ion: 225 Resp: 456

Ion Ratio Lower Upper

225 100

223 77.4 32.3 96.9

227 78.1 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

