

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050520\
 Data File : VX016063.D
 Acq On : 05 May 2020 14:57
 Operator : JC/SP
 Sample : L2469-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ147-20200428

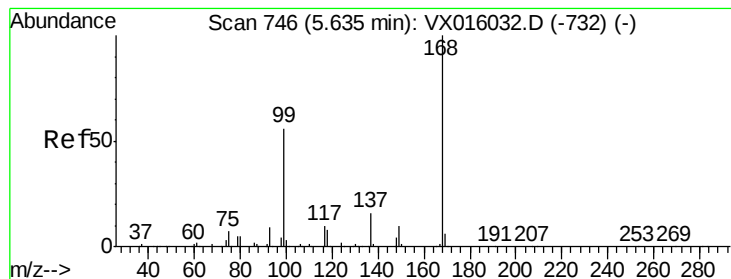
Quant Time: May 06 05:02:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 04:29:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	290831	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	482019	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	467759	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	246554	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	181743	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	
35) Dibromofluoromethane	5.47	113	140252	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	
50) Toluene-d8	8.70	98	590852	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
62) 4-Bromofluorobenzene	11.12	95	241141	53.88	ug/l	0.00
Spiked Amount			Recovery	=	107.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	771	0.216	ug/l	92
11) Tert butyl alcohol	3.01	59	1030	1.064	ug/l #	82
12) 1,1-Dichloroethene	2.36	96	10424	3.448	ug/l	94
13) Acrolein	2.28	56	416	0.687	ug/l #	14
16) Acetone	2.42	43	3089	1.809	ug/l	95
18) Methyl Acetate	2.82	43	887	0.211	ug/l #	50
24) 1,1-Dichloroethane	3.67	63	97568	16.678	ug/l	100
27) cis-1,2-Dichloroethene	4.59	96	1003	0.272	ug/l #	1
31) Cyclohexane	5.63	56	6069	1.142	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22481	4.738	ug/l #	50
38) Carbon Tetrachloride	5.63	117	28741	5.959	ug/l #	14
49) 1,4-Dioxane	7.72	88	354	3.550	ug/l #	75
75) 1,1,2,2-Tetrachloroethane	11.12	83	185	4.855	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	121665	21.746	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	121665	51.822	ug/l #	13
93) 1,2,4-Trichlorobenzene	13.63	180	2223	0.375	ug/l	95
94) Hexachlorobutadiene	13.76	225	108	0.565	ug/l #	75

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

Instrument :

MSVOA_X

ClientSampleId :

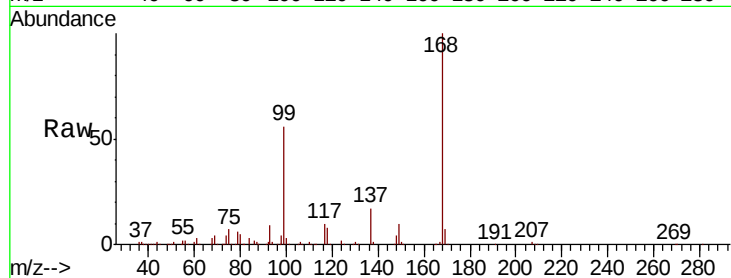
SA-PZ147-20200428

Tot Ion:168 Resp: 290831

Ion Ratio Lower Upper

168 100

99 56.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

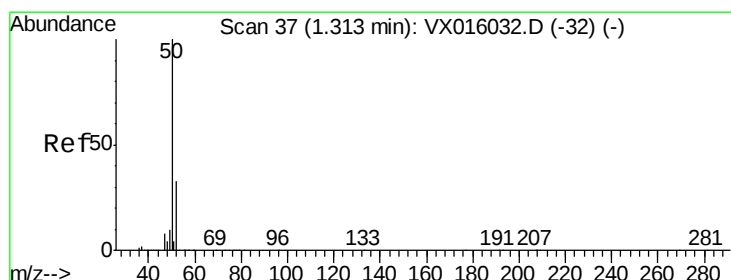
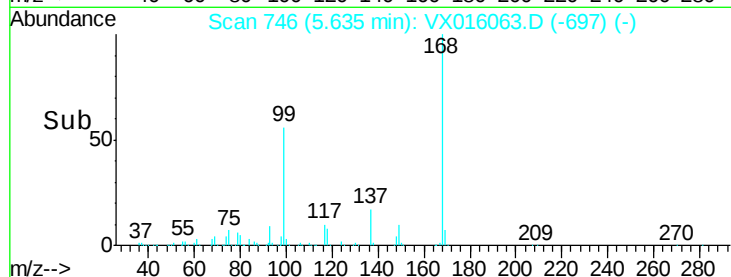
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.216 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016063.D

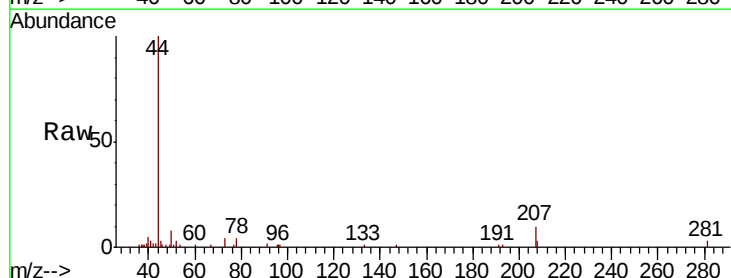
Acq: 05 May 2020 14:57

Tgt Ion: 50 Resp: 771

Ion Ratio Lower Upper

50 100

52 36.9 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

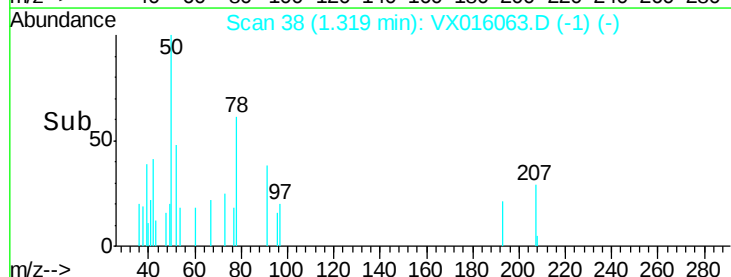
300

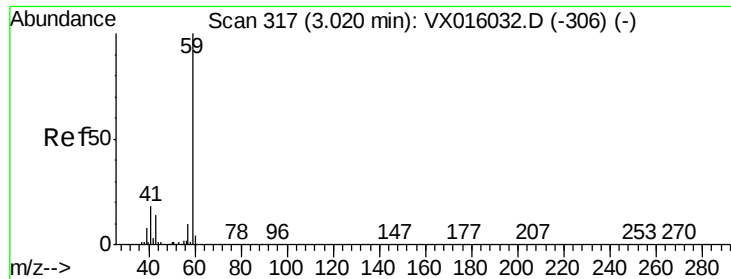
200

100

0

Time-->



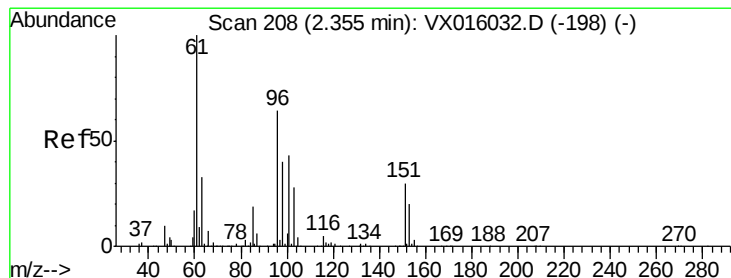
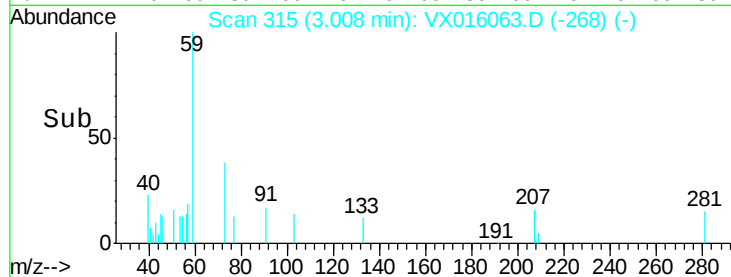
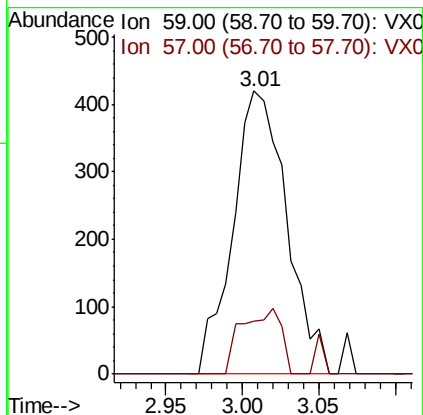
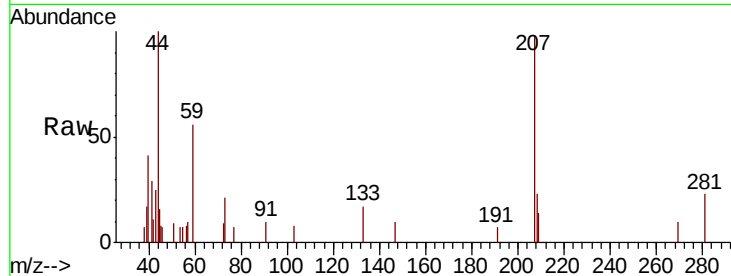


#11

Tert butyl alcohol
Concen: 1.064 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX016063.D
Acq: 05 May 2020 14:57

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ147-20200428

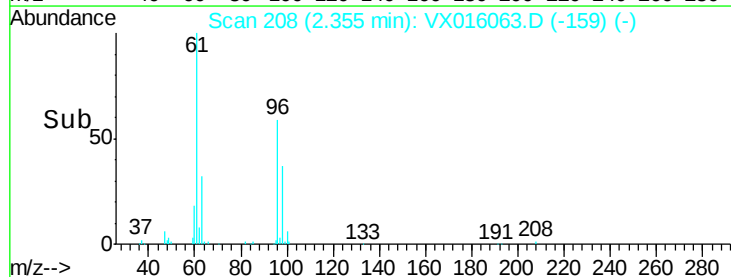
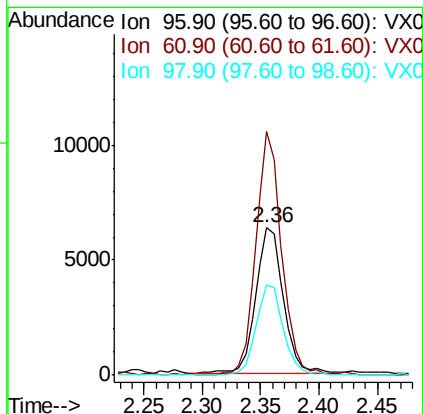
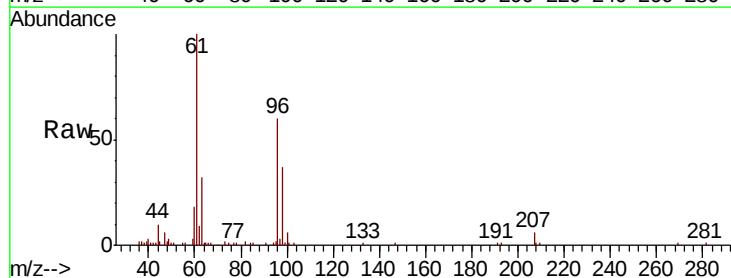
Tot Ion: 59 Resp: 1030
Ion Ratio Lower Upper
59 100
57 16.9 8.2 12.4#

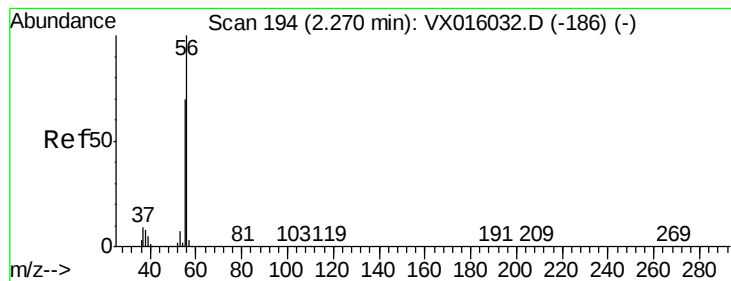


#12

1,1-Dichloroethene
Concen: 3.448 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX016063.D
Acq: 05 May 2020 14:57

Tgt Ion: 96 Resp: 10424
Ion Ratio Lower Upper
96 100
61 166.9 124.8 187.2
98 62.0 49.7 74.5





#13

Acrolein

Concen: 0.687 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

Instrument :

MSVOA_X

ClientSampleId :

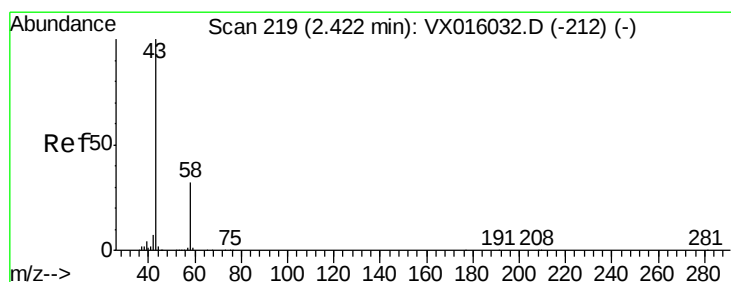
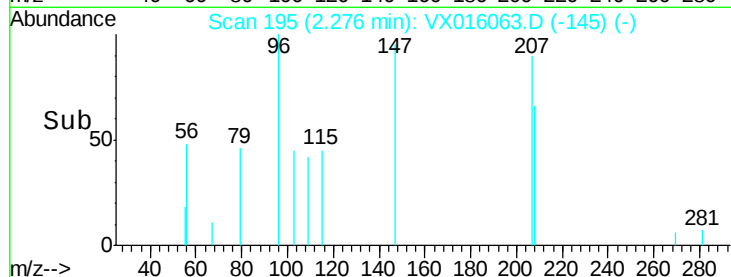
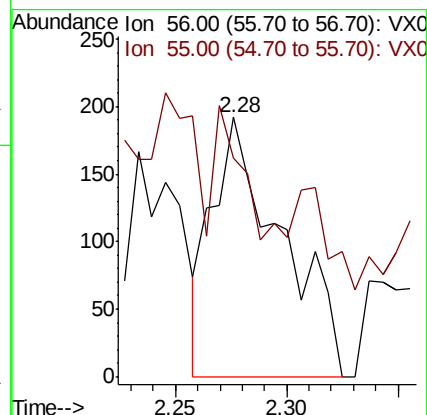
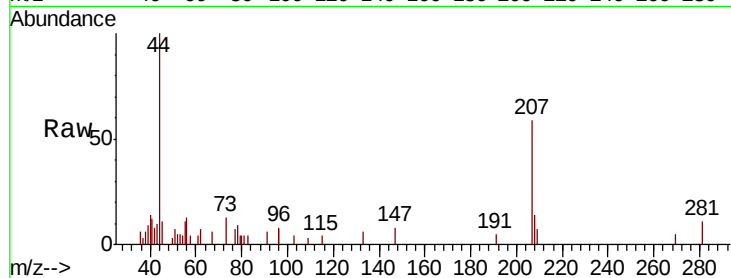
SA-PZ147-20200428

Tot Ion: 56 Resp: 416

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



#16

Acetone

Concen: 1.809 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016063.D

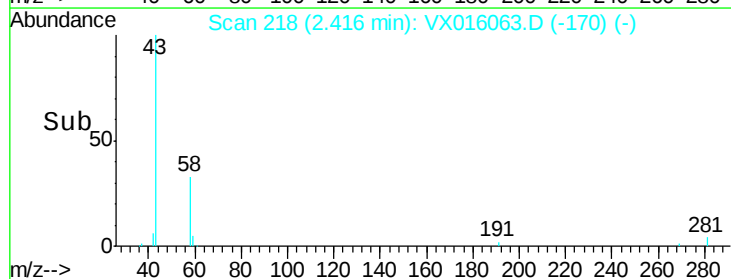
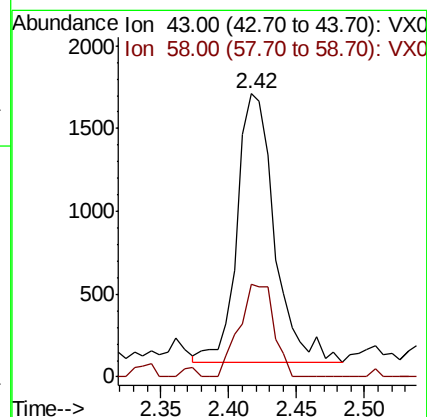
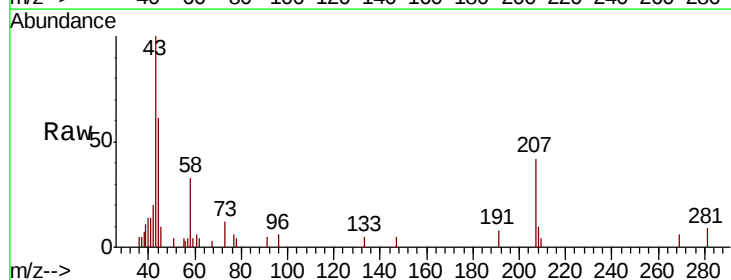
Acq: 05 May 2020 14:57

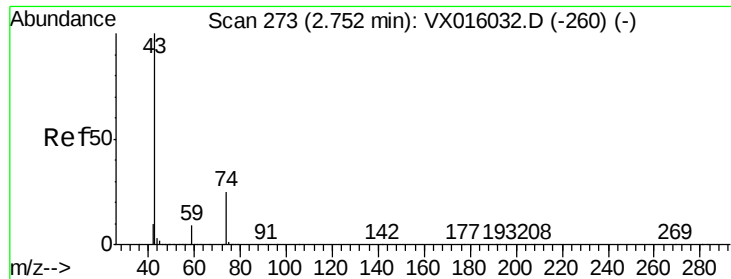
Tgt Ion: 43 Resp: 3089

Ion Ratio Lower Upper

43 100

58 34.6 25.4 38.0

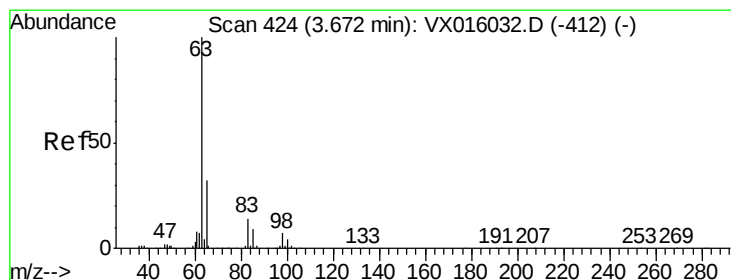
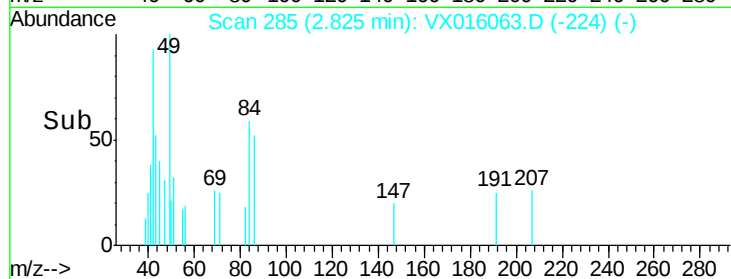
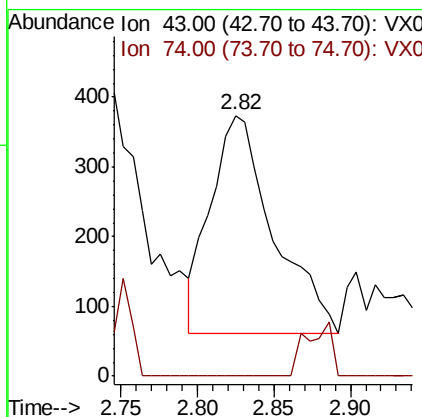
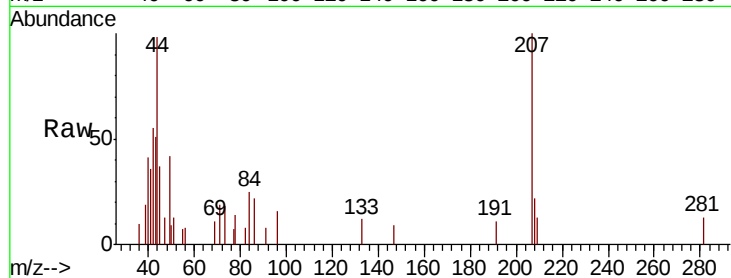




#18
Methvl Acetate
Concen: 0.211 ug/l
RT: 2.82 min Scan# 285
Delta R.T. 0.07 min
Lab File: VX016063.D
Acq: 05 May 2020 14:57

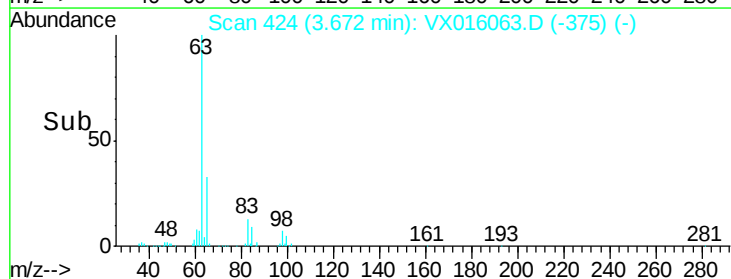
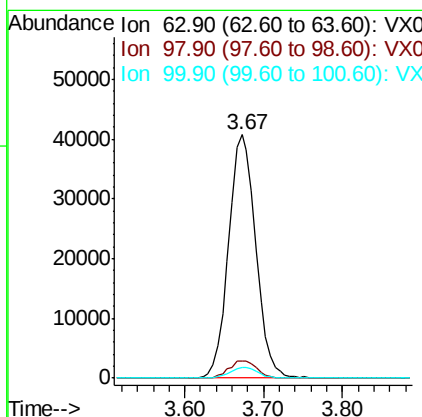
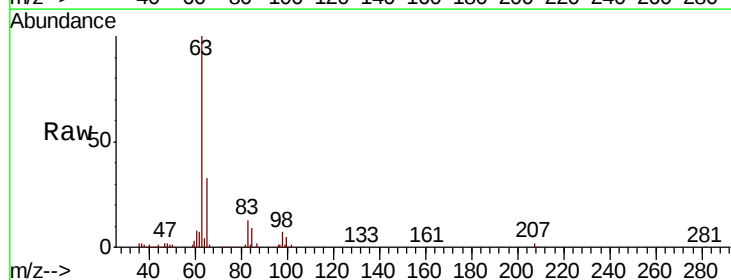
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ147-20200428

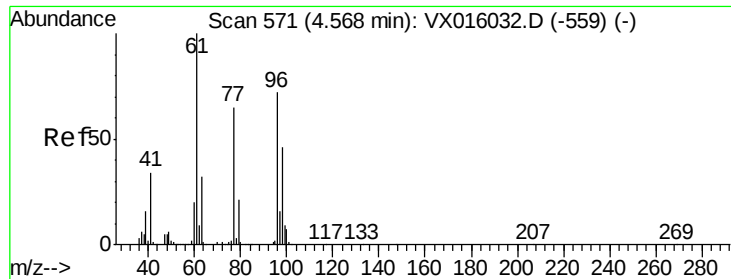
Tot Ion: 43 Resp: 887
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#24
1,1-Dichloroethane
Concen: 16.678 ug/l
RT: 3.67 min Scan# 424
Delta R.T. -0.00 min
Lab File: VX016063.D
Acq: 05 May 2020 14:57

Tgt Ion: 63 Resp: 97568
Ion Ratio Lower Upper
63 100
98 6.9 3.5 10.5
100 4.6 2.1 6.5



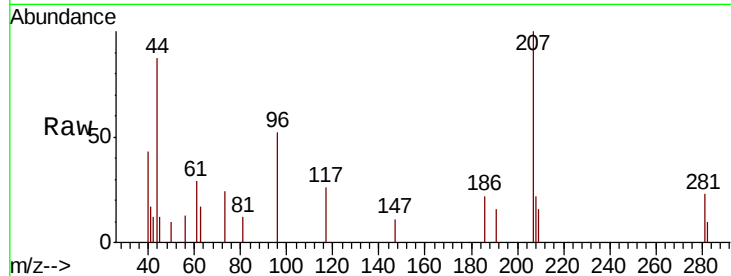


#27

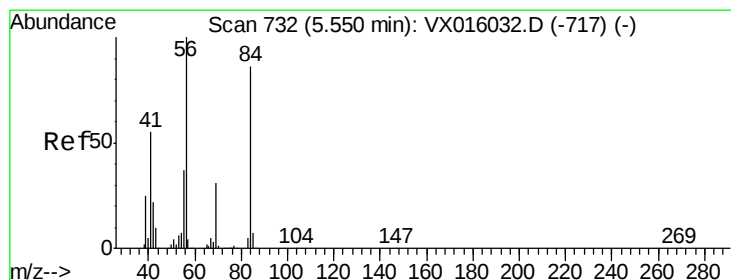
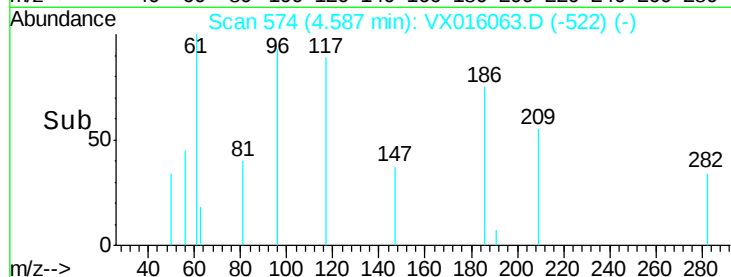
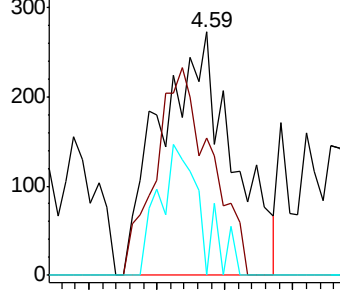
cis-1,2-Dichloroethene
Concen: 0.272 ug/l
RT: 4.59 min Scan# 574
Delta R.T. 0.02 min
Lab File: VX016063.D
Acq: 05 May 2020 14:57

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ147-20200428

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



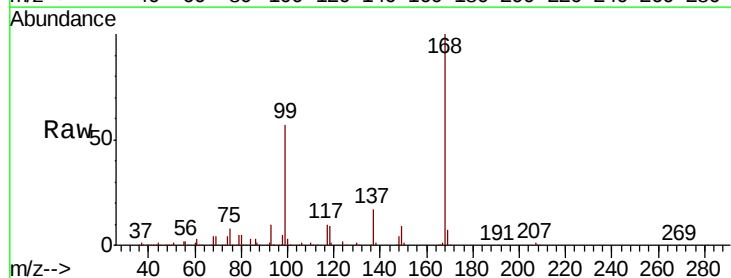
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



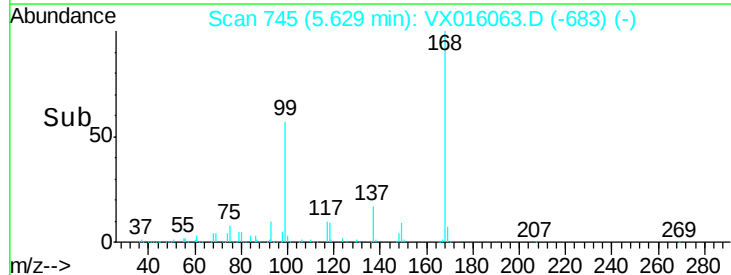
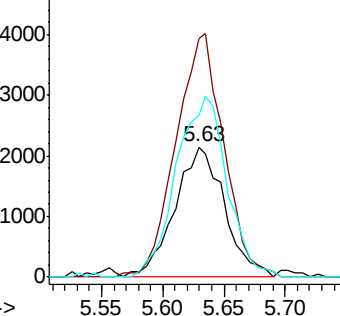
#31

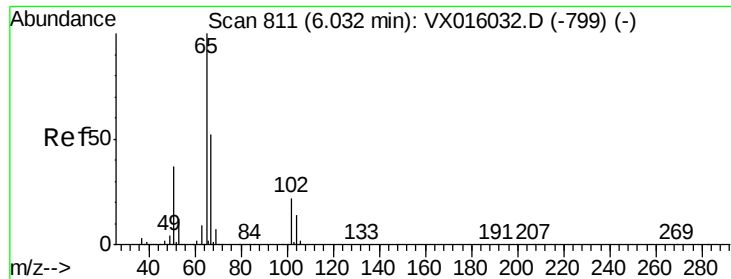
Cyclohexane
Concen: 1.142 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016063.D
Acq: 05 May 2020 14:57

Tgt Ion	Ratio	Lower	Upper
56	100		
69	180.6	25.0	37.6#
84	124.4	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: 47.489 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

Instrument :

MSVOA_X

ClientSampleId :

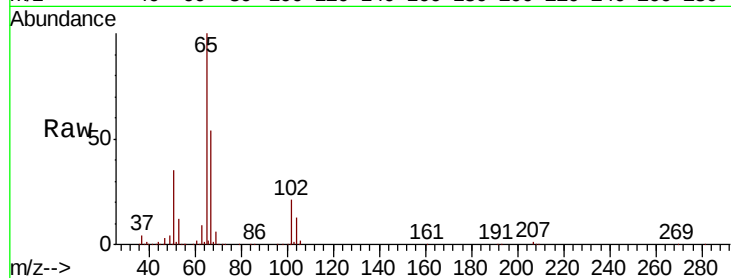
SA-PZ147-20200428

Tot Ion: 65 Resp: 181743

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

80000

60000

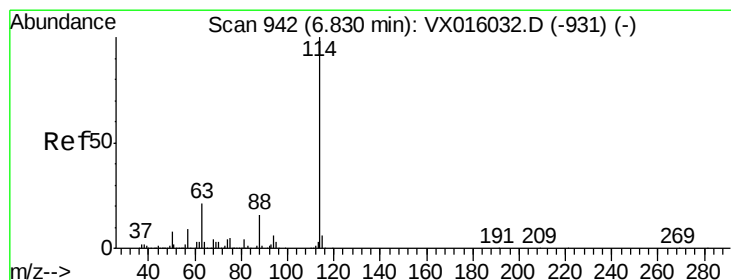
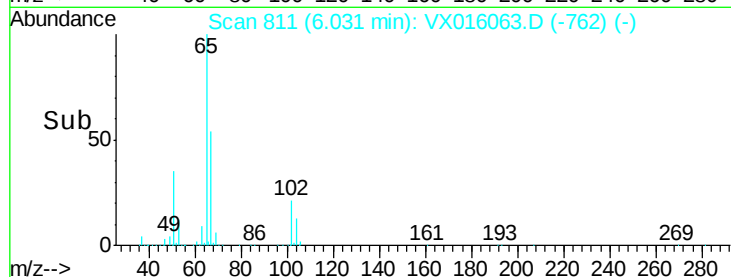
40000

20000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

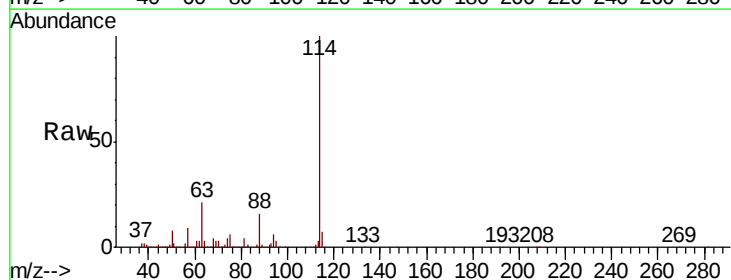
Tgt Ion: 114 Resp: 482019

Ion Ratio Lower Upper

114 100

63 21.1 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

250000

200000

150000

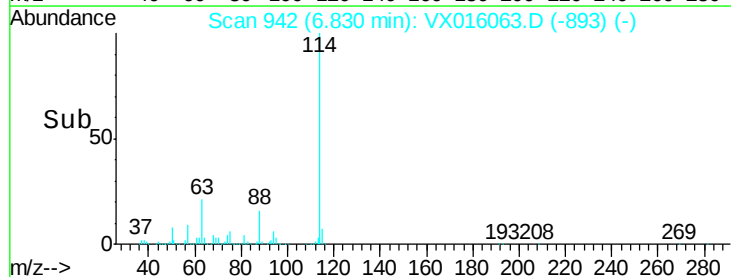
100000

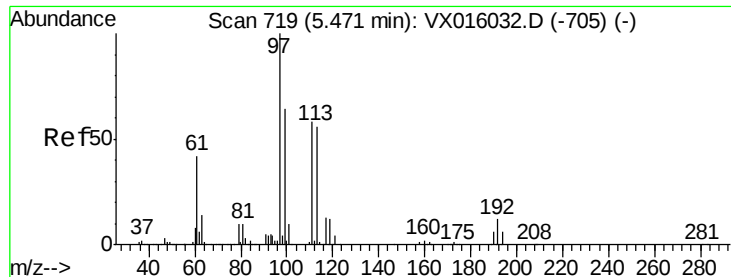
50000

0

Time-->

6.70 6.80 6.90 7.00

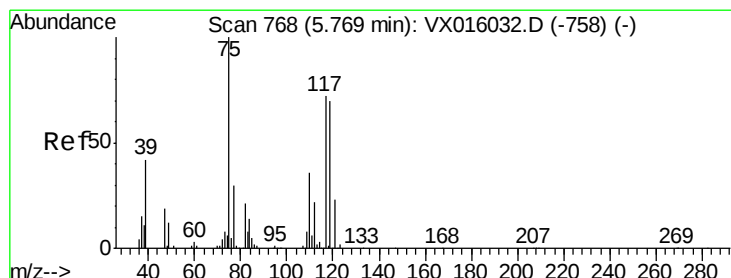
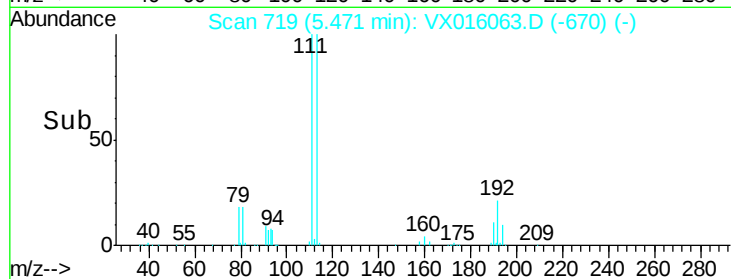
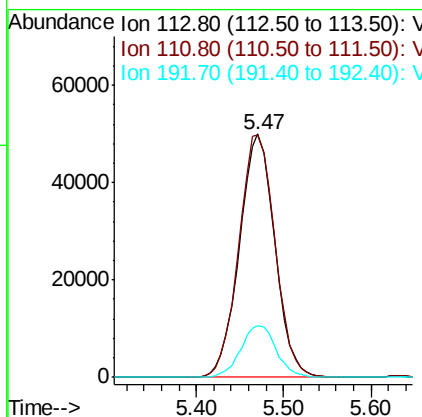
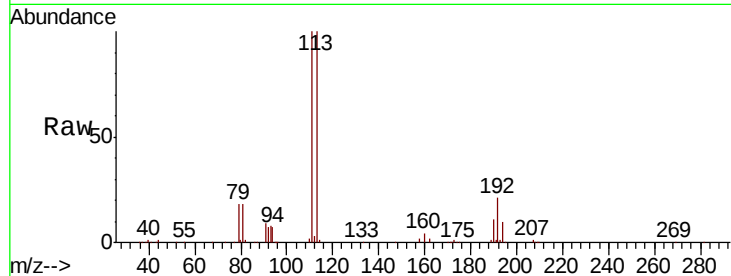




#35
Dibromofluoromethane
Concen: 45.927 ug/l
RT: 5.47 min Scan# 719
Delta R.T. -0.00 min
Lab File: VX016063.D
Acq: 05 May 2020 14:57

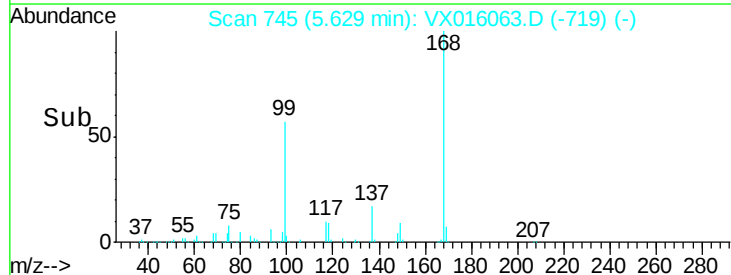
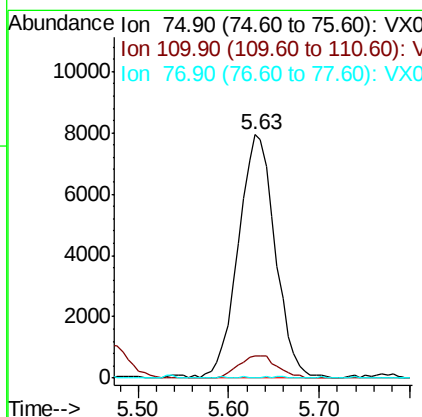
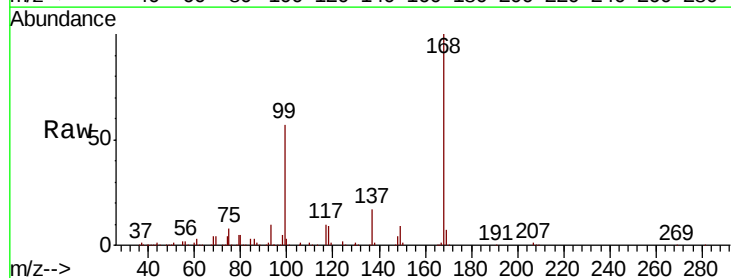
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ147-20200428

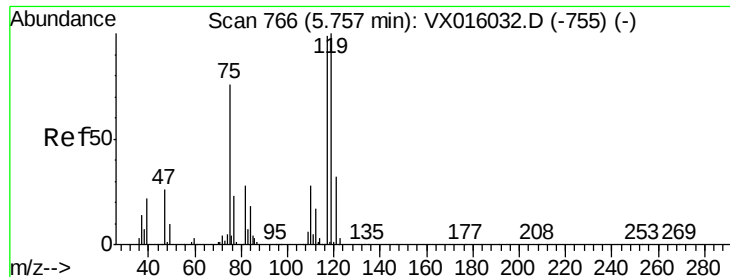
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.6	122.4
192	21.5	17.0	25.4



#36
1,1-Dichloropropene
Concen: 4.738 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.14 min
Lab File: VX016063.D
Acq: 05 May 2020 14:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.1	54.1#
77	0.1	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 5.959 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ147-20200428

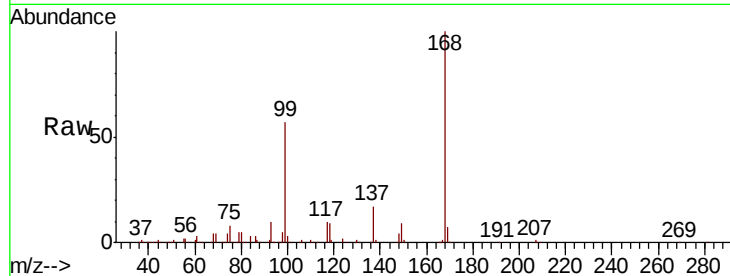
Tot Ion:117 Resp: 28741

Ion Ratio Lower Upper

117 100

119 5.0 80.3 120.5#

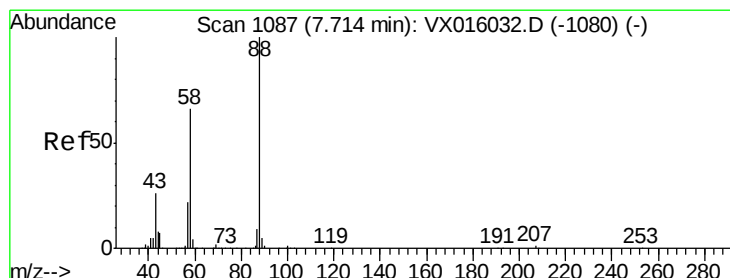
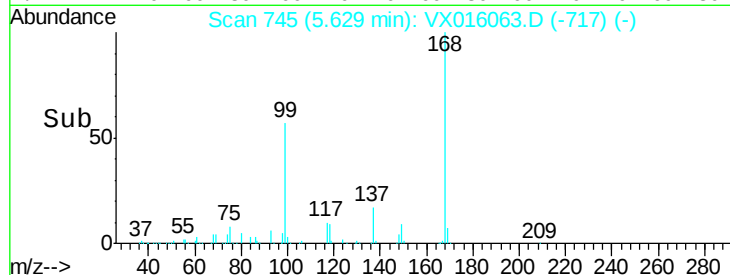
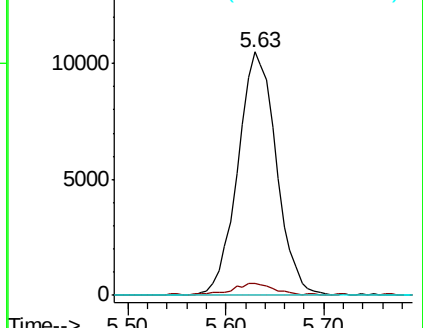
121 0.0 25.7 38.5#



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



#49

1,4-Dioxane

Concen: 3.550 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

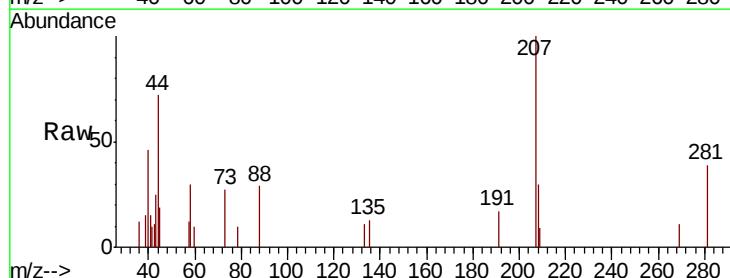
Tgt Ion: 88 Resp: 354

Ion Ratio Lower Upper

88 100

43 11.6 25.3 37.9#

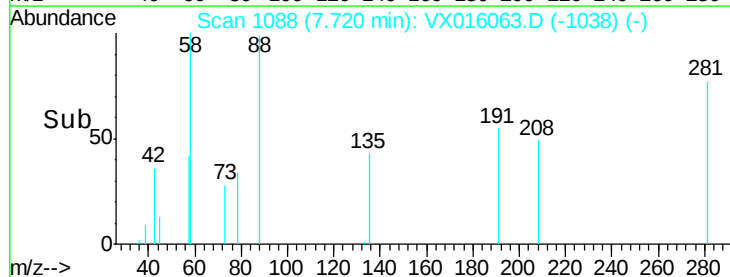
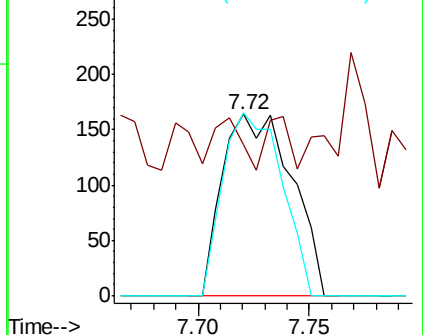
58 85.9 55.9 83.9#

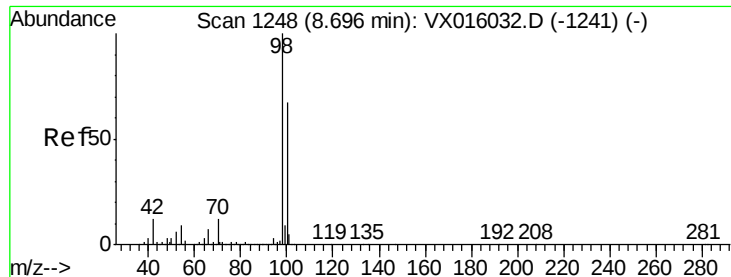


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.215 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

Instrument :

MSVOA_X

ClientSampleId :

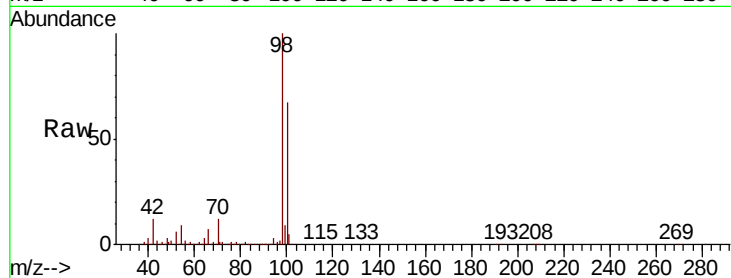
SA-PZ147-20200428

Tot Ion: 98 Resp: 590852

Ion Ratio Lower Upper

98 100

100 66.3 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

400000

300000

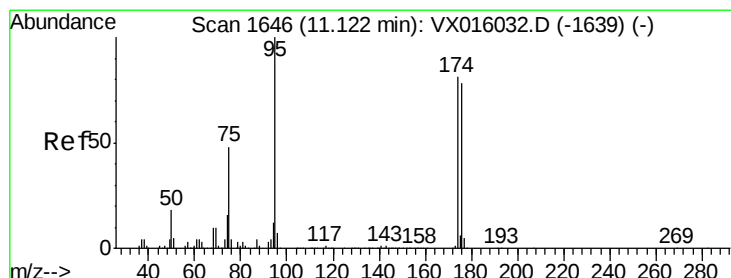
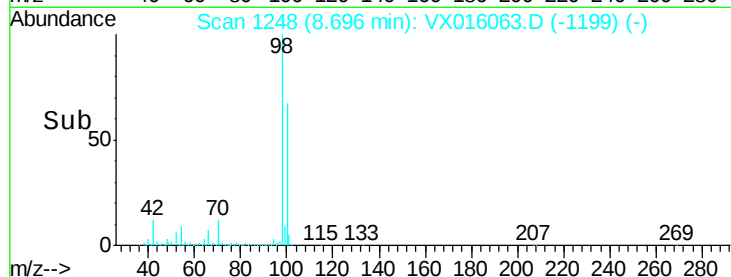
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: 53.881 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

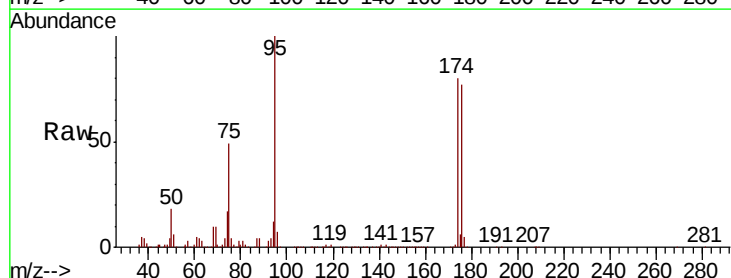
Tgt Ion: 95 Resp: 241141

Ion Ratio Lower Upper

95 100

174 79.9 0.0 159.4

176 77.7 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

11.12

250000

200000

150000

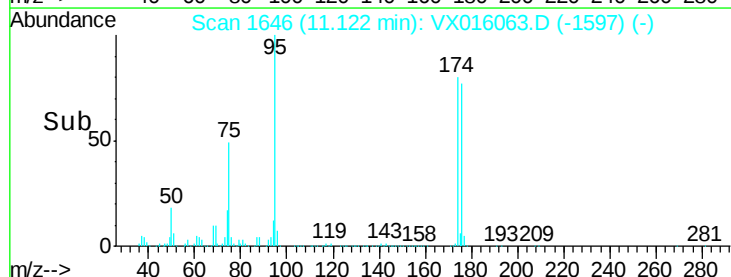
100000

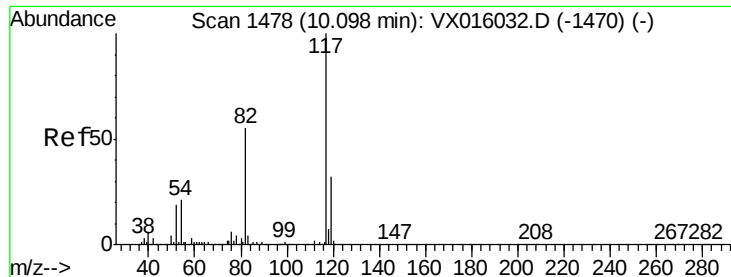
50000

0

11.10 11.20

Time-->

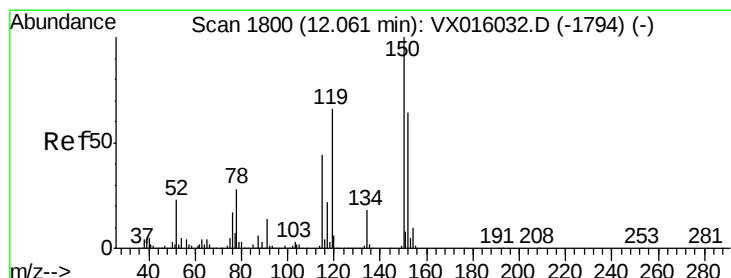
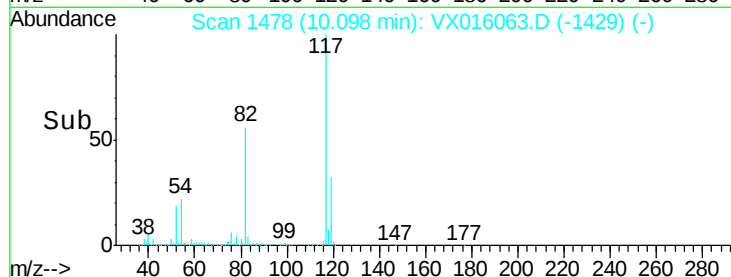
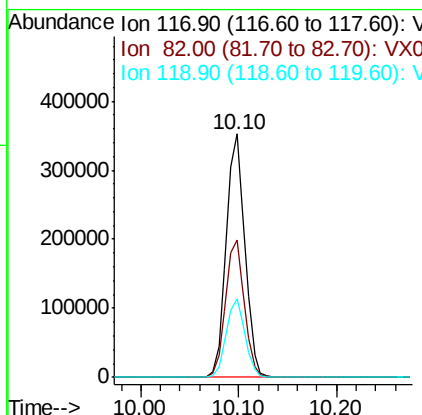
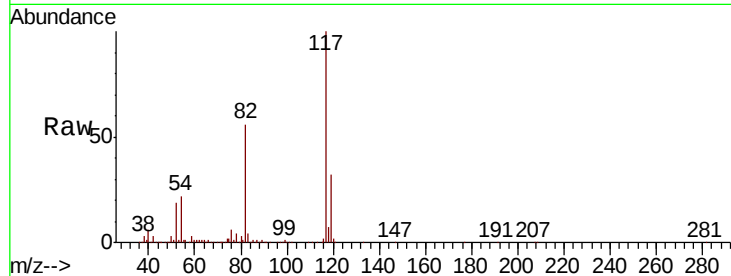




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016063.D
Acq: 05 May 2020 14:57

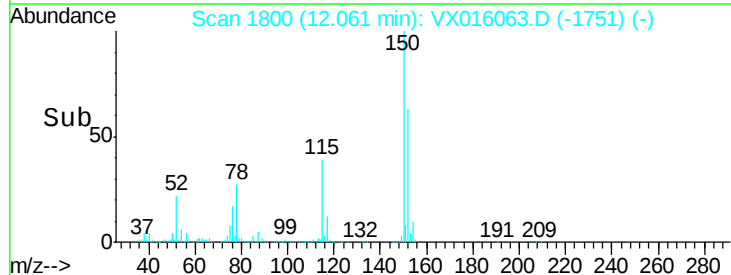
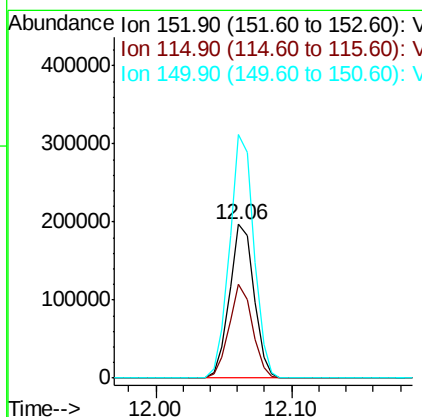
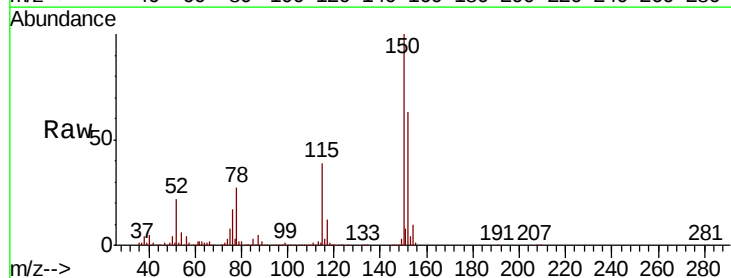
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ147-20200428

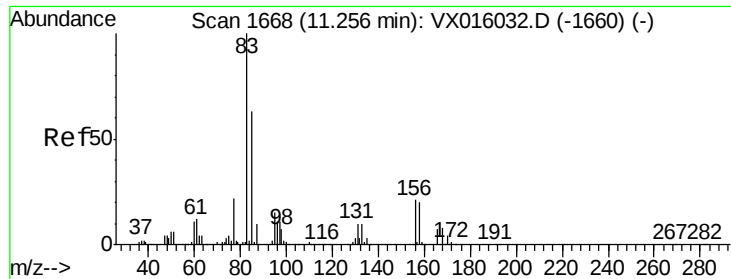
Tot Ion:117 Resp: 467759
Ion Ratio Lower Upper
117 100
82 56.2 44.4 66.6
119 32.5 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016063.D
Acq: 05 May 2020 14:57

Tgt Ion:152 Resp: 246554
Ion Ratio Lower Upper
152 100
115 58.6 41.3 124.1
150 157.5 0.0 352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 4.855 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.14 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ147-20200428

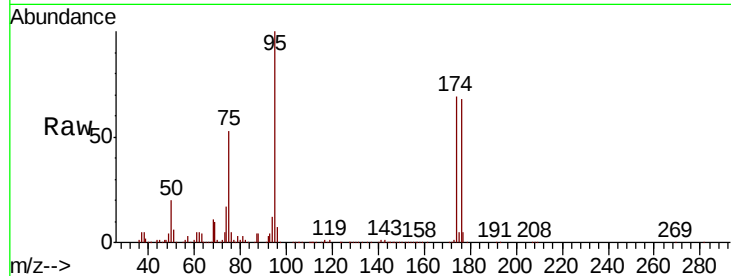
Tot Ion: 83 Resp: 185

Ion Ratio Lower Upper

83 100

131 178.4 5.1 15.4#

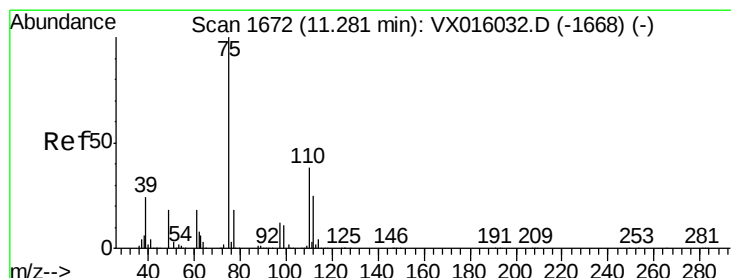
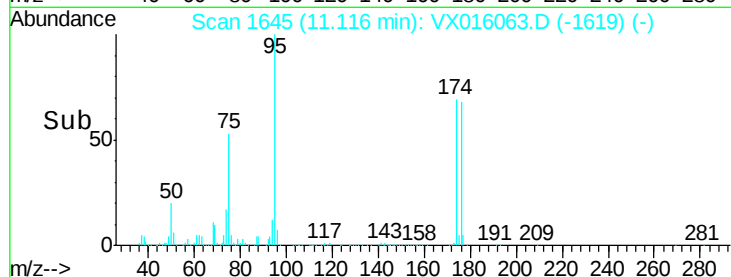
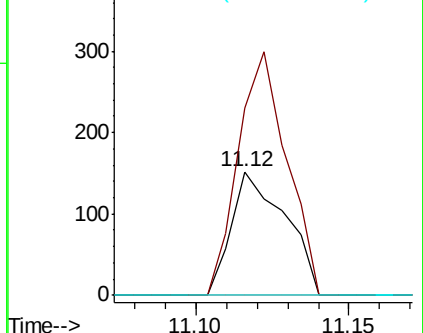
85 0.0 32.0 96.0#



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: 21.746 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016063.D

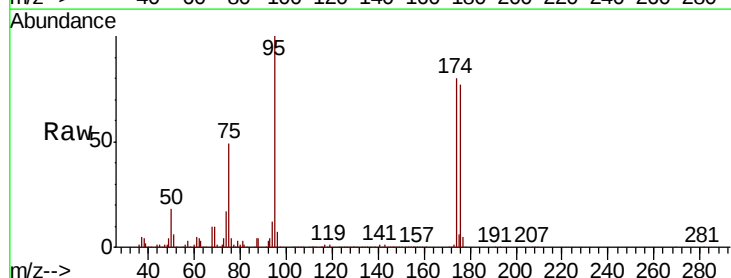
Acq: 05 May 2020 14:57

Tgt Ion: 75 Resp: 121665

Ion Ratio Lower Upper

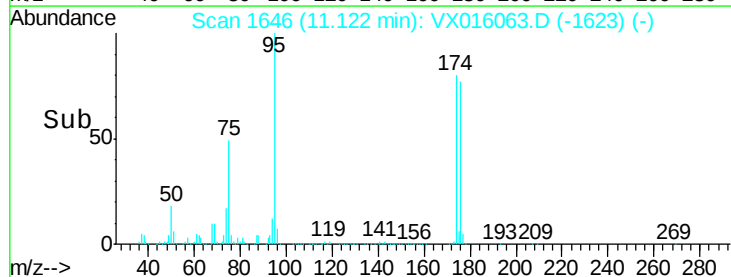
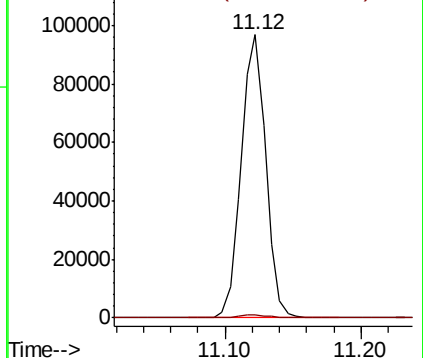
75 100

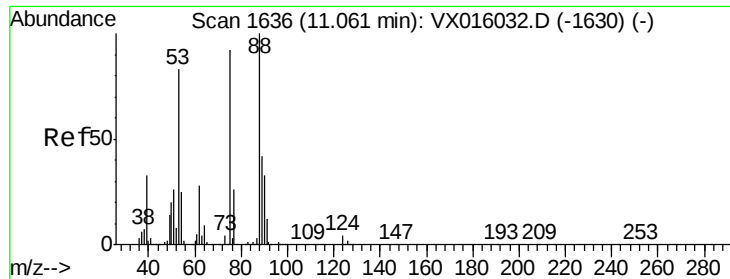
77 1.4 21.2 63.6#



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: 51.822 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ147-20200428

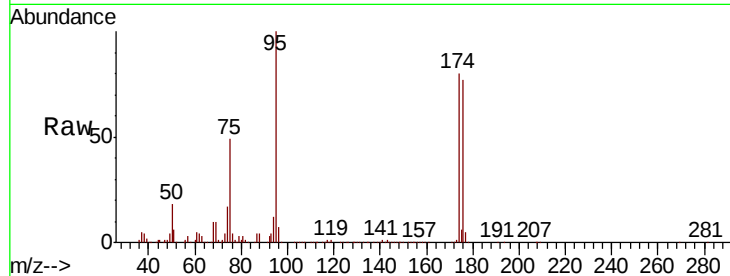
Tot Ion: 75 Resp: 121665

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

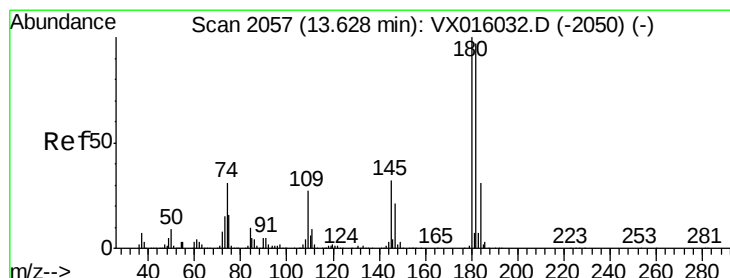
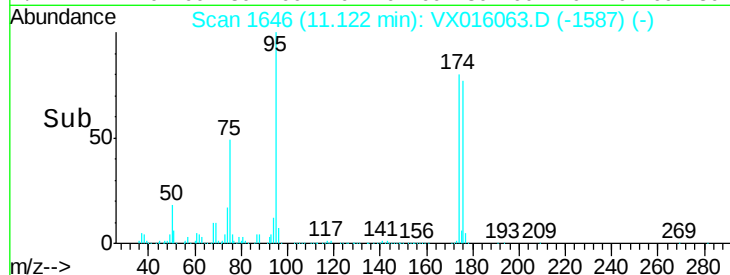
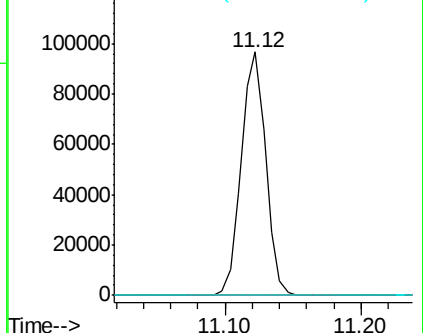
89 0.0 36.7 55.1#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.375 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

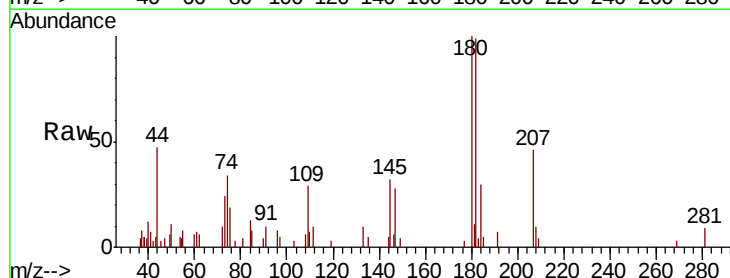
Tgt Ion: 180 Resp: 2223

Ion Ratio Lower Upper

180 100

182 100.0 48.7 146.1

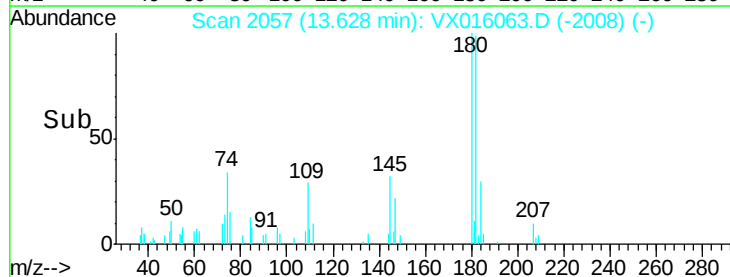
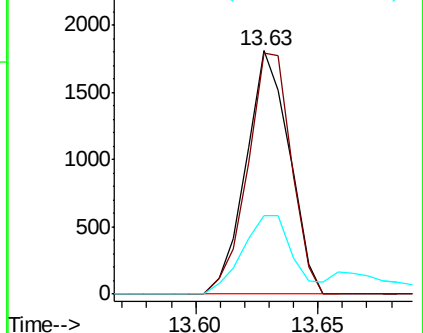
145 38.1 15.7 47.1

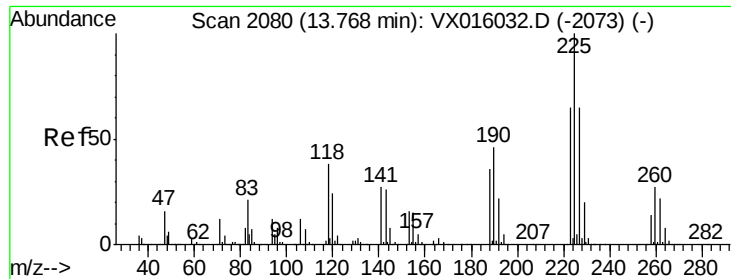


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.565 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016063.D

Acq: 05 May 2020 14:57

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ147-20200428

Tot Ion:225 Resp: 108

Ion Ratio Lower Upper

225 100

223 101.9 32.3 96.9#

227 64.8 31.8 95.4

