

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO050420\
 Data File : VX016047.D
 Acq On : 04 May 2020 19:47
 Operator : JC/SP
 Sample : L2469-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ124-20200428

Quant Time: May 05 07:32:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:11:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	305925	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	500399	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	482125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	249790	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	189439	47.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.12%	
35) Dibromofluoromethane	5.47	113	146719	46.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.56%	
50) Toluene-d8	8.70	98	607767	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
62) 4-Bromofluorobenzene	11.12	95	242571	52.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.42%	

Target Compounds

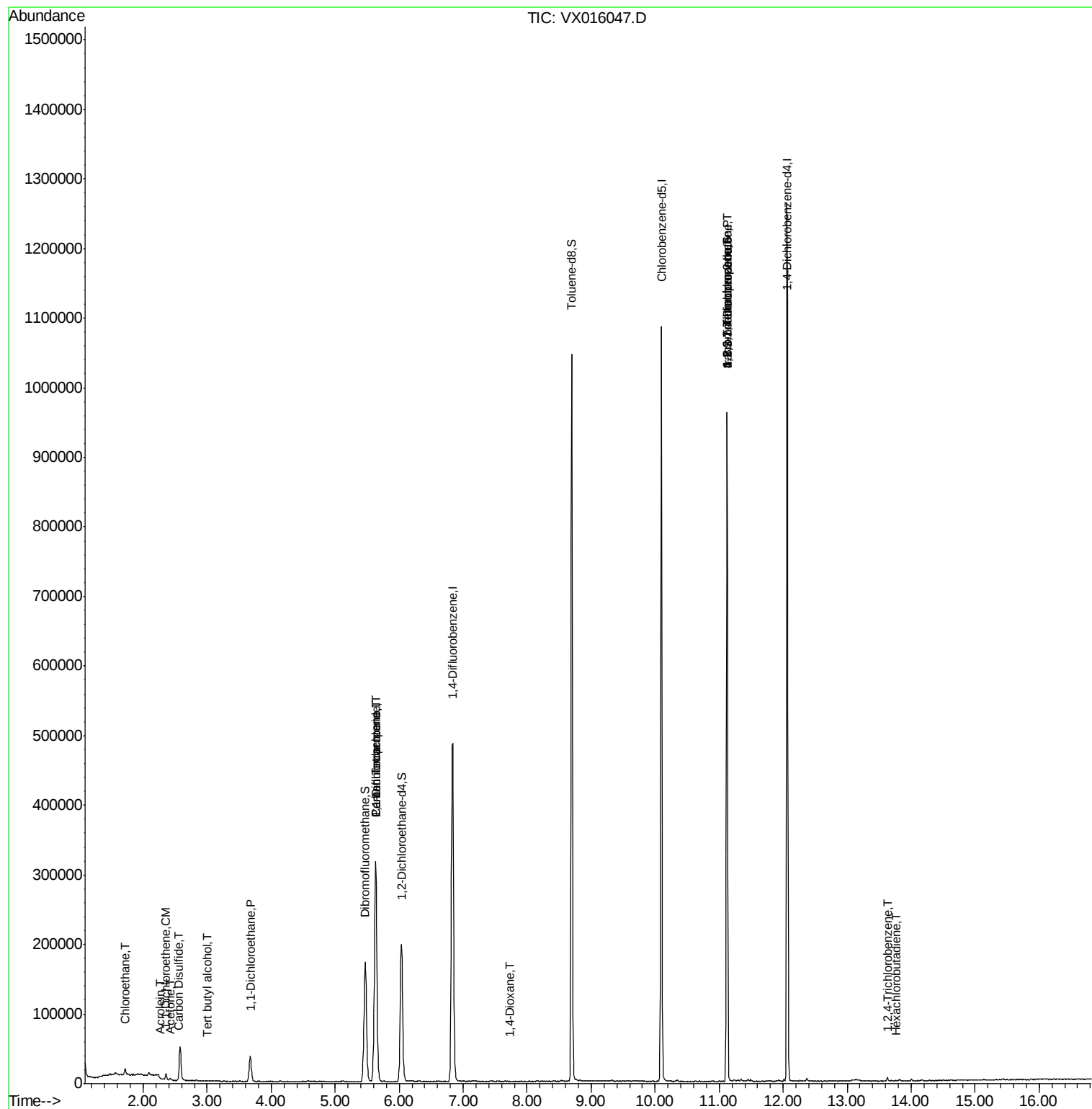
						Qvalue
6) Chloroethane	1.72	64	5651	2.315	ug/l	98
11) Tert butyl alcohol	3.01	59	703	0.691	ug/l #	83
12) 1,1-Dichloroethene	2.36	96	3465	1.090	ug/l	84
13) Acrolein	2.28	56	202	0.317	ug/l #	1
16) Acetone	2.42	43	3484	1.940	ug/l	90
17) Carbon Disulfide	2.55	76	4052	0.218	ug/l	99
24) 1,1-Dichloroethane	3.67	63	42656	6.932	ug/l	100
36) 1,1-Dichloropropene	5.63	75	23736	4.819	ug/l #	49
38) Carbon Tetrachloride	5.64	117	29790	5.950	ug/l #	14
49) 1,4-Dioxane	7.72	88	163	1.575	ug/l #	34
75) 1,1,2,2-Tetrachloroethane	11.12	83	274	4.875	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	124903	22.035	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	124903	52.512	ug/l #	13
93) 1,2,4-Trichlorobenzene	13.63	180	1261	0.210	ug/l	91
94) Hexachlorobutadiene	13.77	225	185	0.594	ug/l	86

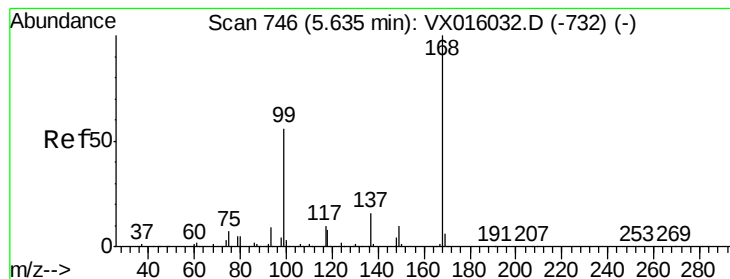
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 05 07:11:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

Instrument :

MSVOA_X

ClientSampleId :

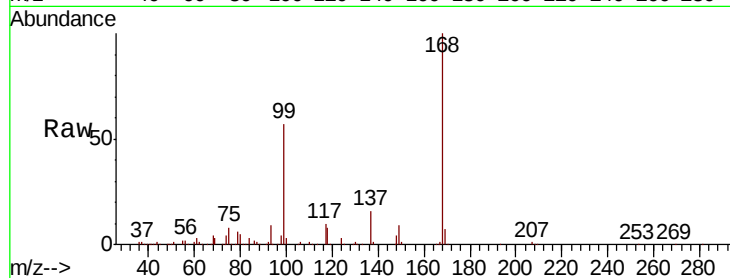
SA-PZ124-20200428

Tot Ion:168 Resp: 305925

Ion Ratio Lower Upper

168 100

99 56.8 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

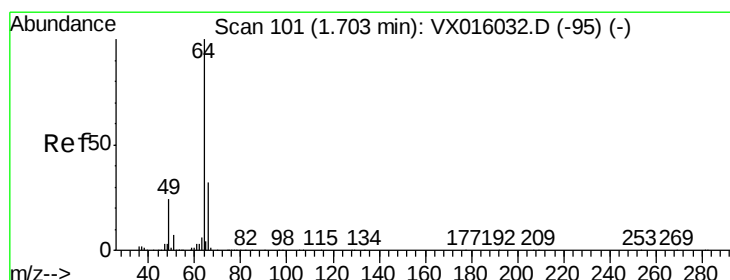
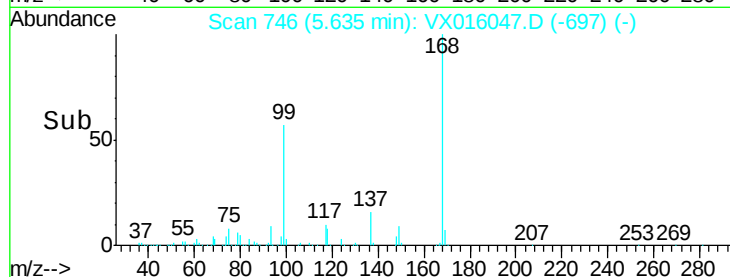
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 2.315 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX016047.D

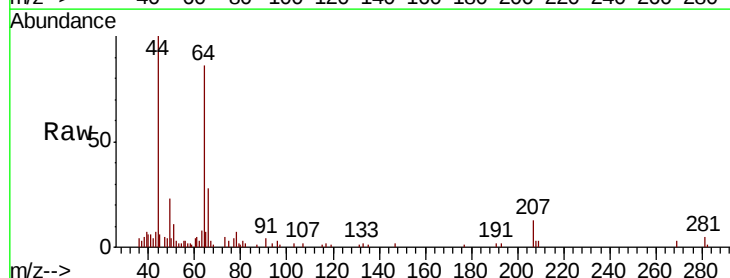
Acq: 04 May 2020 19:47

Tgt Ion: 64 Resp: 5651

Ion Ratio Lower Upper

64 100

66 30.5 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

5000

4000

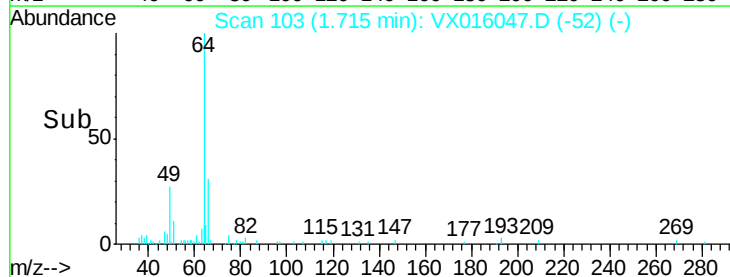
3000

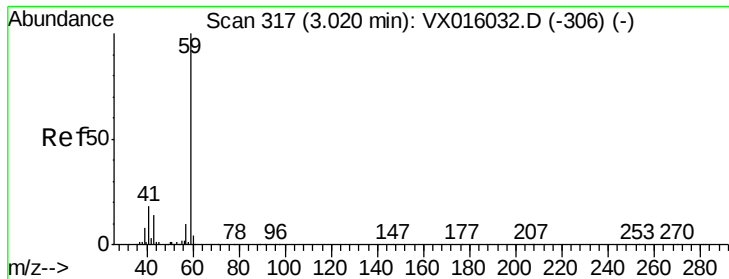
2000

1000

0

Time-->



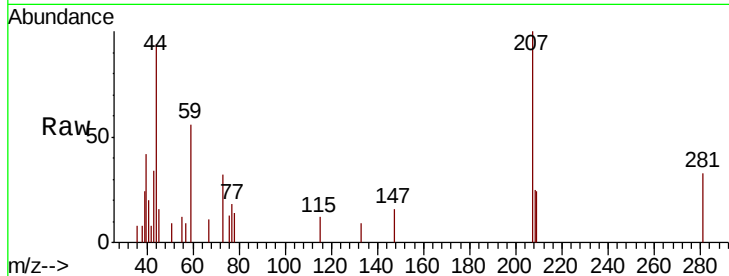


#11

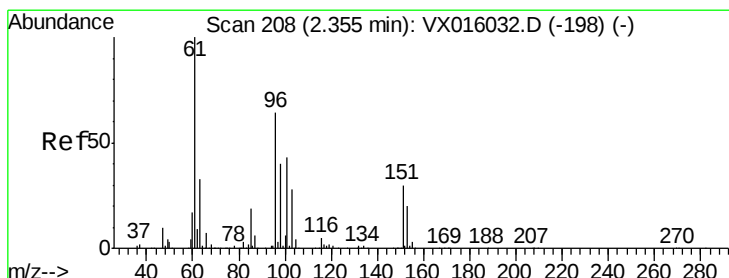
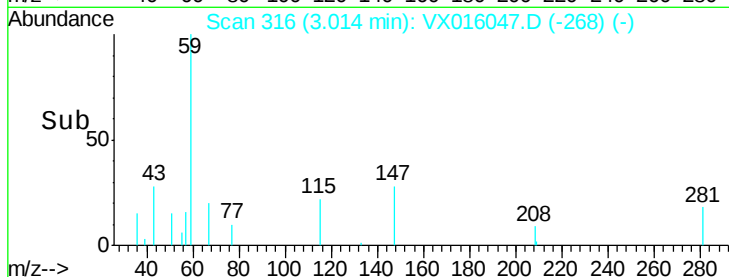
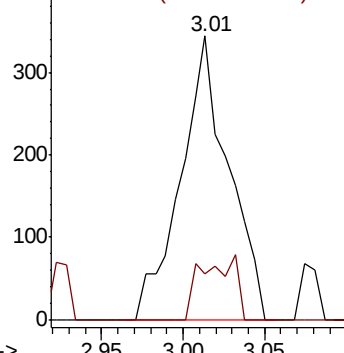
Tert butyl alcohol
Concen: 0.691 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX016047.D
Acq: 04 May 2020 19:47

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ124-20200428

Tot Ion: 59 Resp: 703
Ion Ratio Lower Upper
59 100
57 16.6 8.2 12.4#



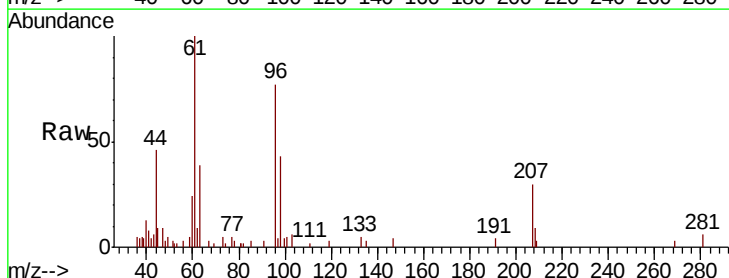
Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



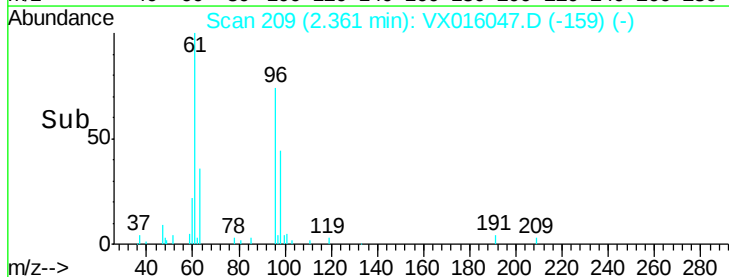
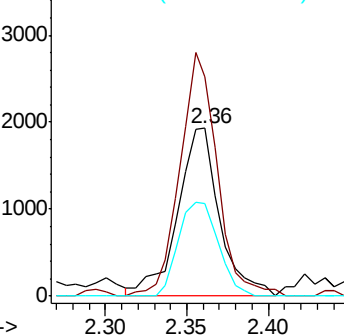
#12

1,1-Dichloroethene
Concen: 1.090 ug/l
RT: 2.36 min Scan# 209
Delta R.T. 0.01 min
Lab File: VX016047.D
Acq: 04 May 2020 19:47

Tgt Ion: 96 Resp: 3465
Ion Ratio Lower Upper
96 100
61 130.6 124.8 187.2
98 55.5 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: 0.317 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

Instrument :

MSVOA_X

ClientSampleId :

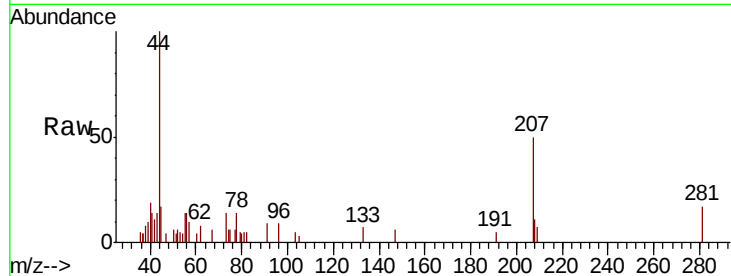
SA-PZ124-20200428

Tot Ion: 56 Resp: 202

Ion Ratio Lower Upper

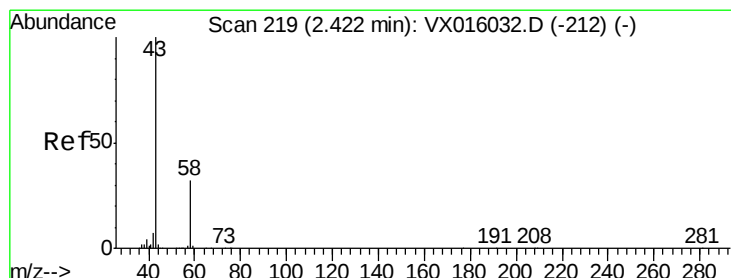
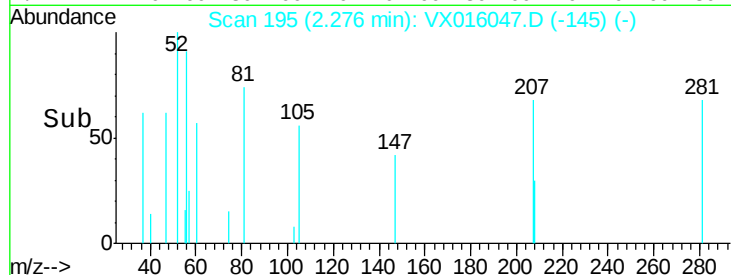
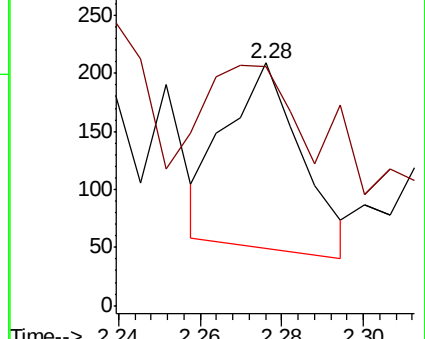
56 100

55 361.9 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: 1.940 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016047.D

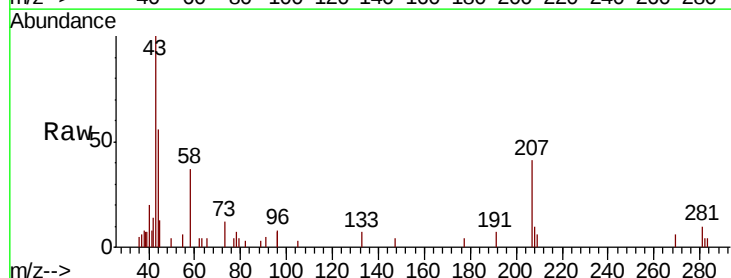
Acq: 04 May 2020 19:47

Tgt Ion: 43 Resp: 3484

Ion Ratio Lower Upper

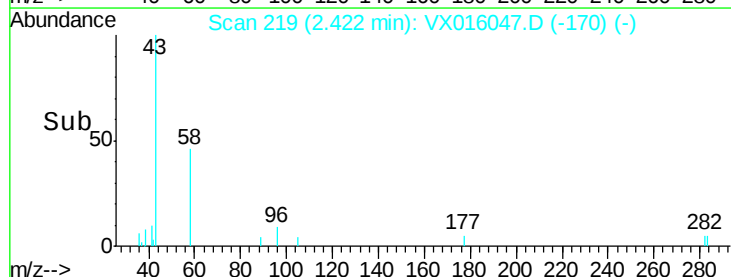
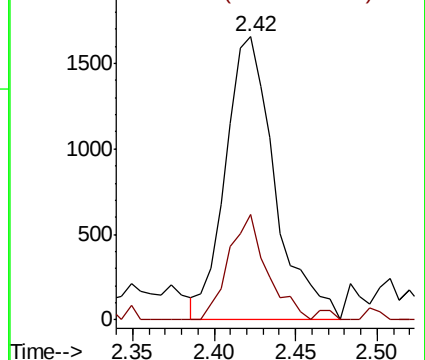
43 100

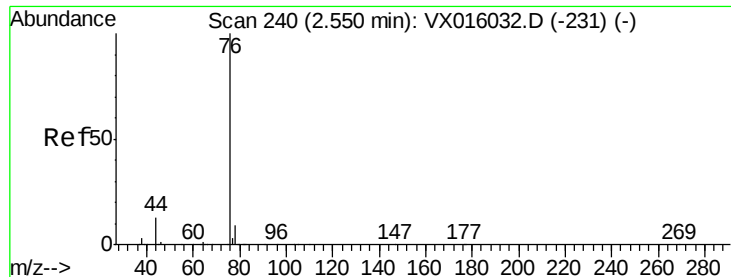
58 37.1 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.218 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

Instrument :

MSVOA_X

ClientSampleId :

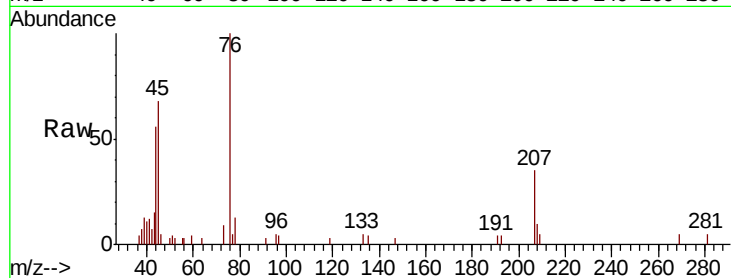
SA-PZ124-20200428

Tot Ion: 76 Resp: 4052

Ion Ratio Lower Upper

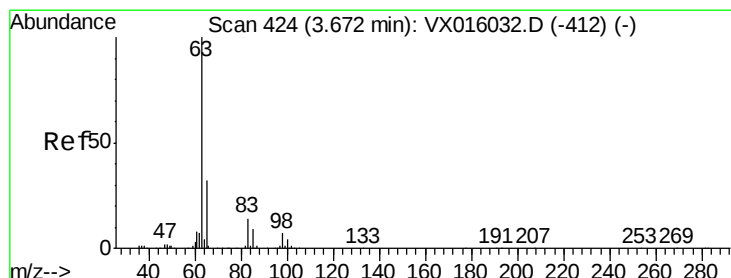
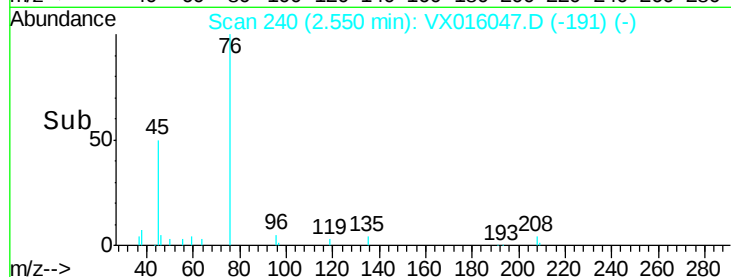
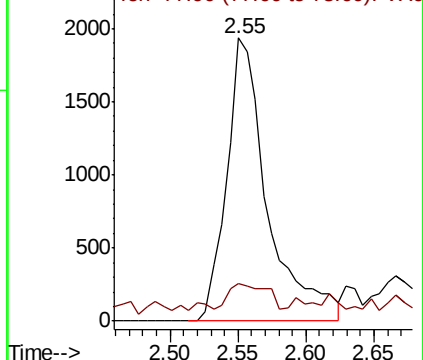
76 100

78 9.7 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#24

1,1-Dichloroethane

Concen: 6.932 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

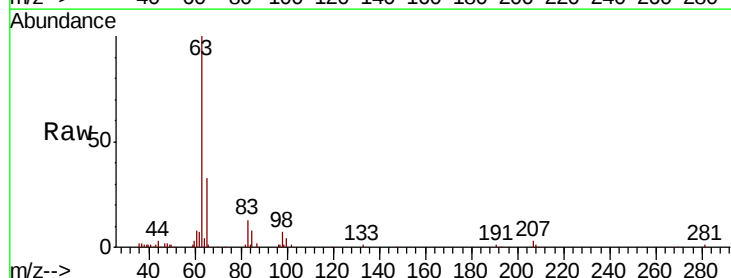
Tgt Ion: 63 Resp: 42656

Ion Ratio Lower Upper

63 100

98 7.1 3.5 10.5

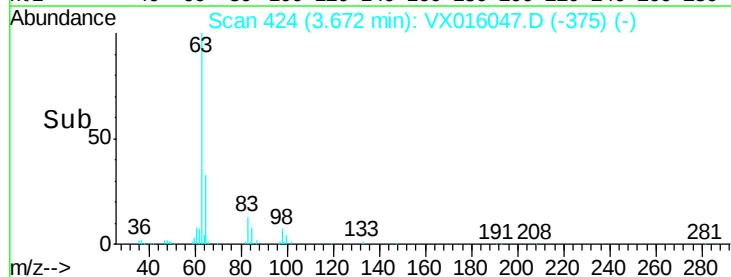
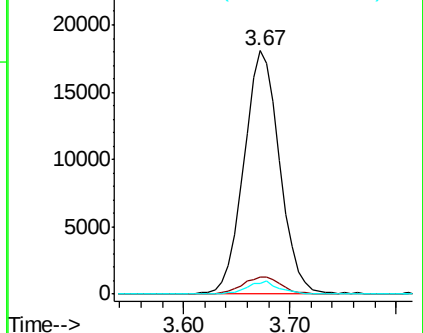
100 4.2 2.1 6.5

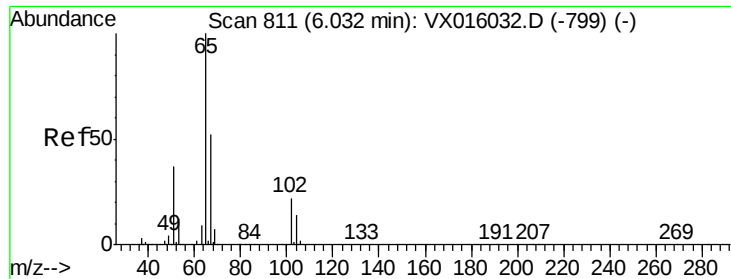


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.058 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

Instrument :

MSVOA_X

ClientSampleId :

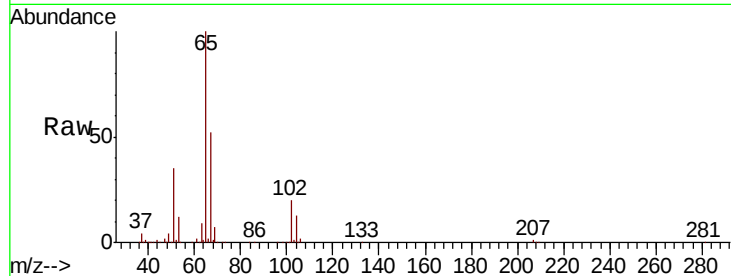
SA-PZ124-20200428

Tot Ion: 65 Resp: 189439

Ion Ratio Lower Upper

65 100

67 51.9 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

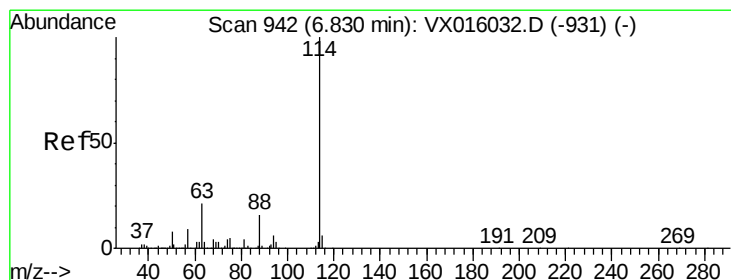
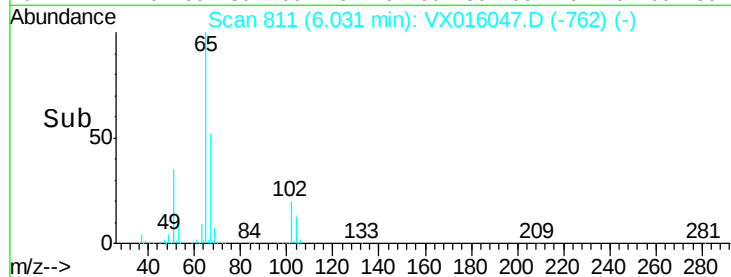
40000

20000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

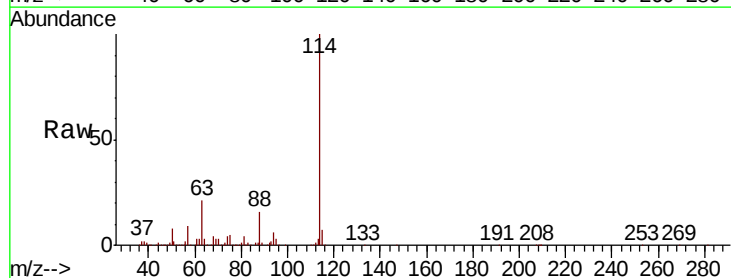
Tgt Ion: 114 Resp: 500399

Ion Ratio Lower Upper

114 100

63 20.6 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

6.84

250000

200000

150000

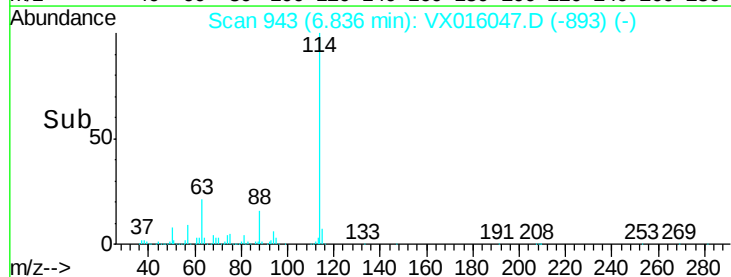
100000

50000

0

Time-->

6.70 6.80 6.90 7.00

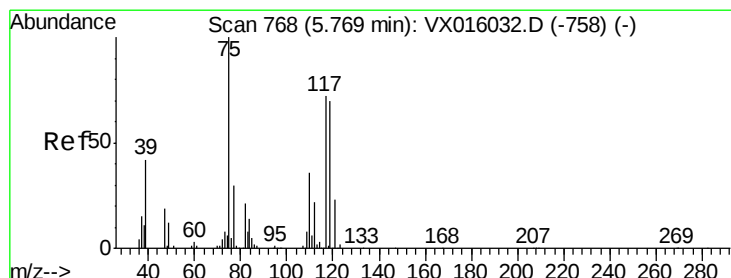
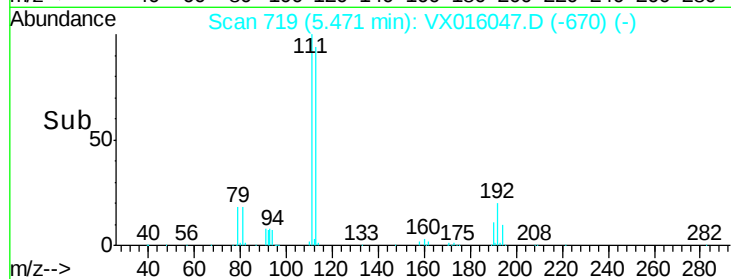
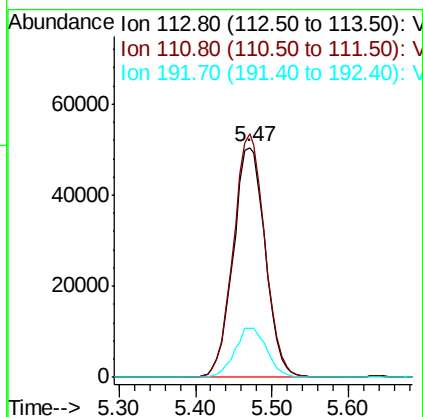
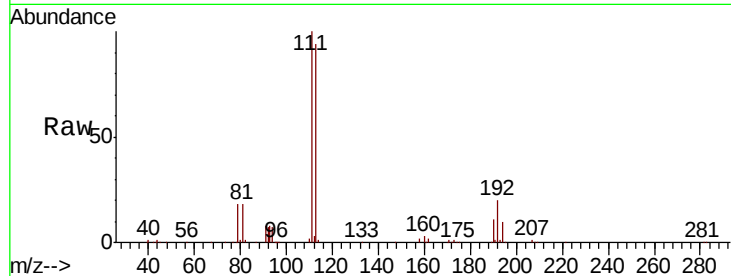




#35
Dibromofluoromethane
Concen: 46.280 ug/l
RT: 5.47 min Scan# 719
Delta R.T. -0.00 min
Lab File: VX016047.D
Acq: 04 May 2020 19:47

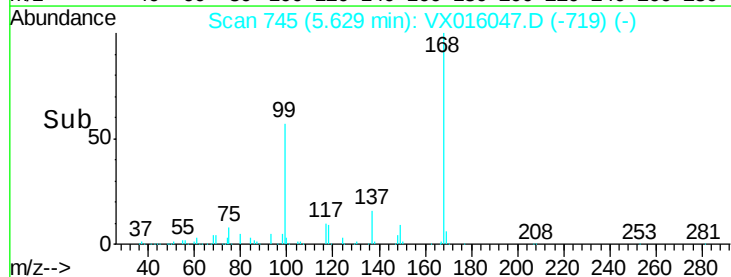
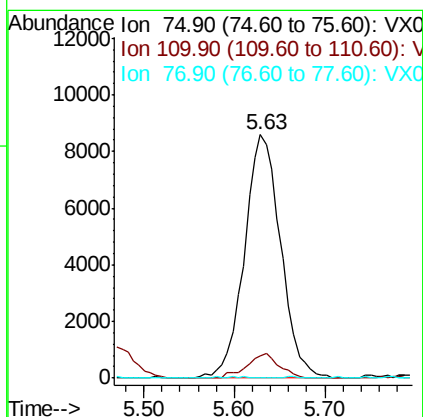
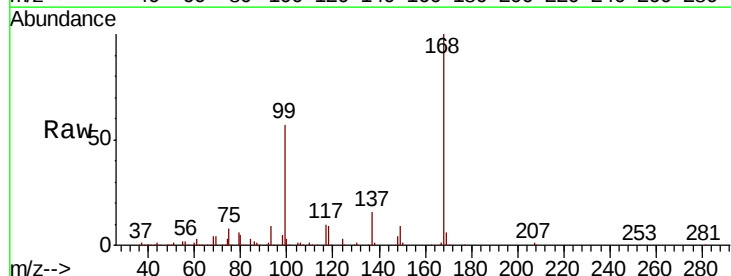
Instrument :
MSVOA_X
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SA-PZ124-20200428

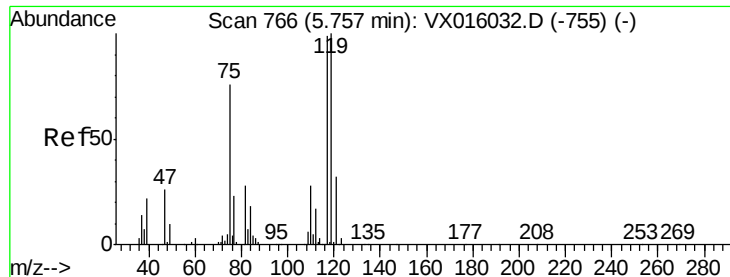
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.6	122.4
192	21.4	17.0	25.4



#36
1,1-Dichloropropene
Concen: 4.819 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.14 min
Lab File: VX016047.D
Acq: 04 May 2020 19:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.1#
77	0.0	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 5.950 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20200428

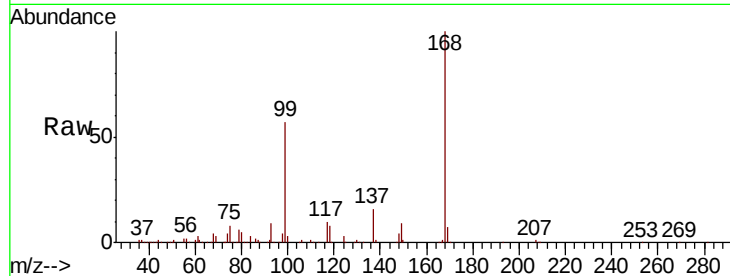
Tot Ion:117 Resp: 29790

Ion Ratio Lower Upper

117 100

119 5.0 80.3 120.5#

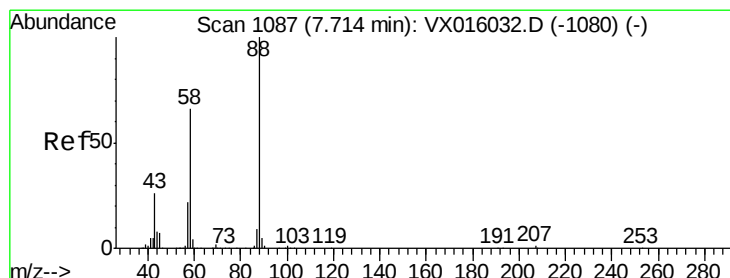
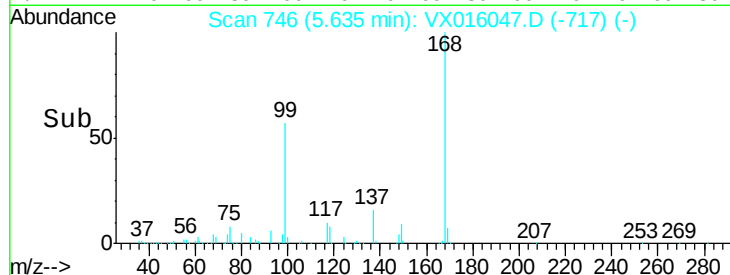
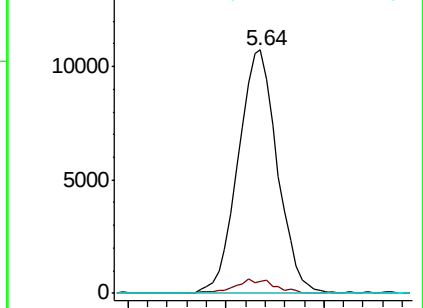
121 0.0 25.7 38.5#



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: 1.575 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

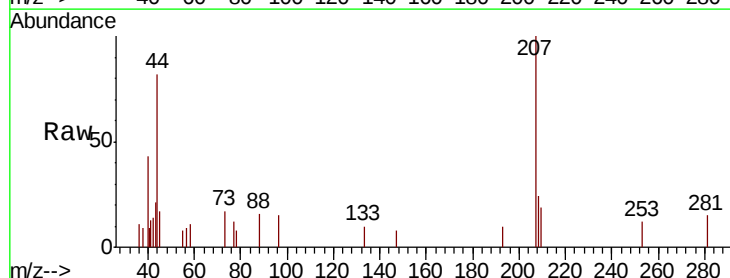
Tgt Ion: 88 Resp: 163

Ion Ratio Lower Upper

88 100

43 45.4 25.3 37.9#

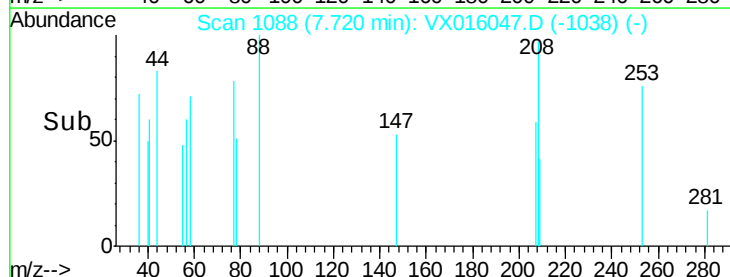
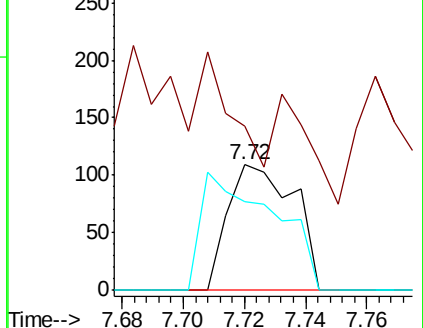
58 0.0 55.9 83.9#

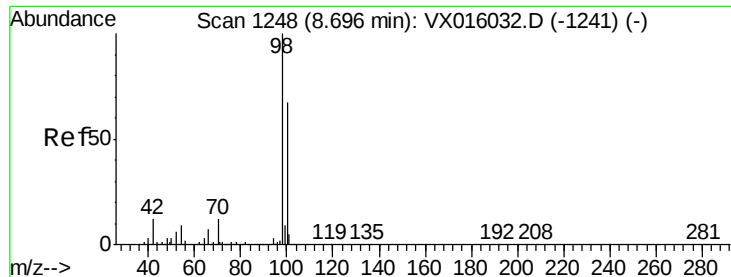


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.755 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

Instrument :

MSVOA_X

ClientSampleId :

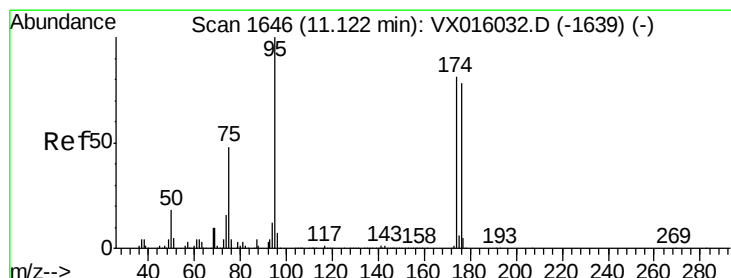
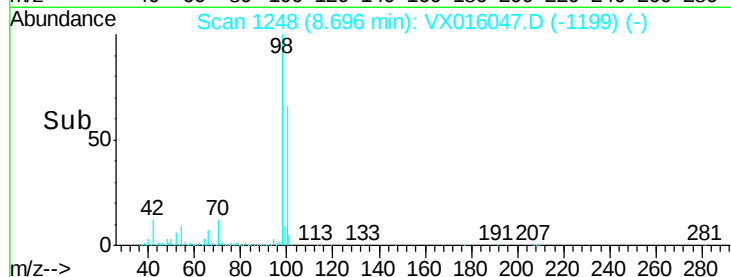
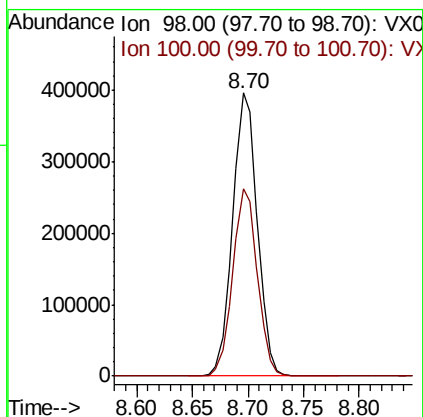
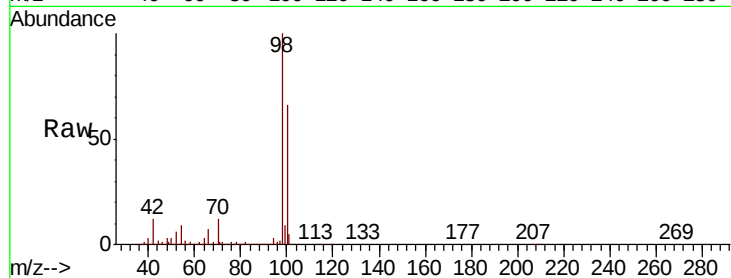
SA-PZ124-20200428

Tot Ion: 98 Resp: 607767

Ion Ratio Lower Upper

98 100

100 66.2 53.7 80.5



#62

4-Bromofluorobenzene

Concen: 52.210 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

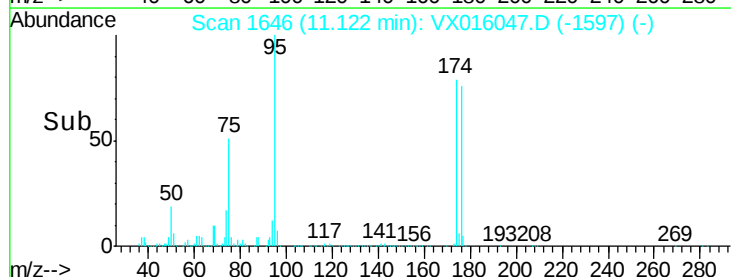
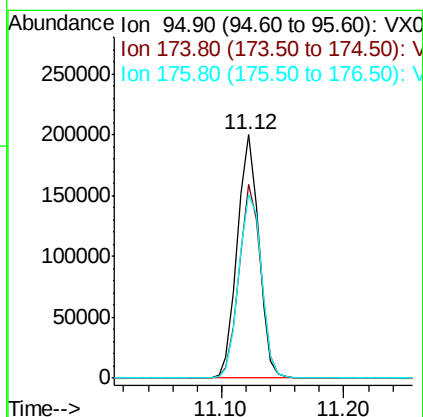
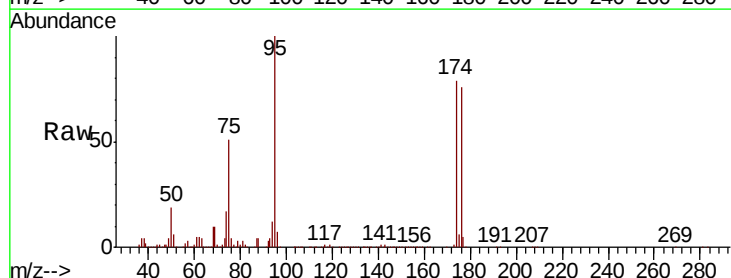
Tgt Ion: 95 Resp: 242571

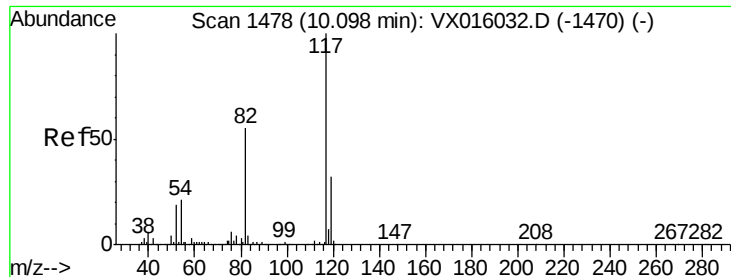
Ion Ratio Lower Upper

95 100

174 79.9 0.0 159.4

176 79.6 0.0 157.6

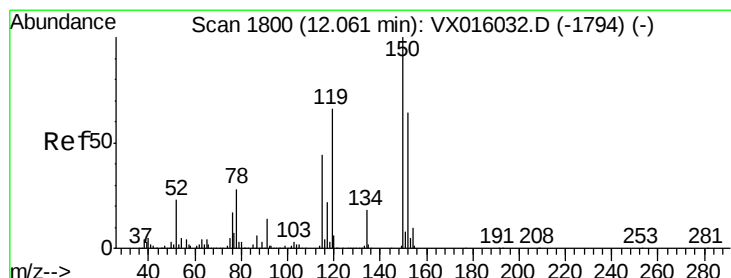
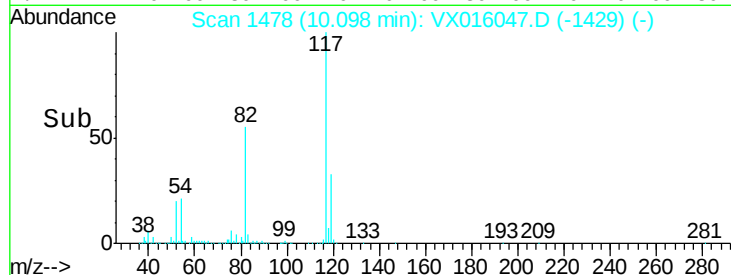
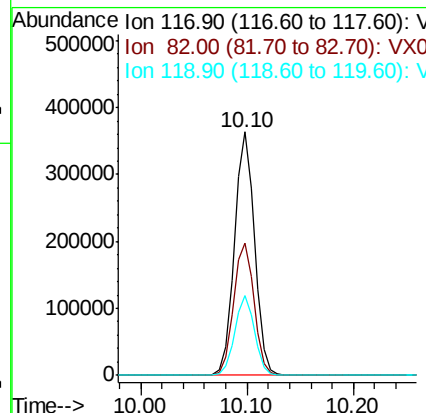
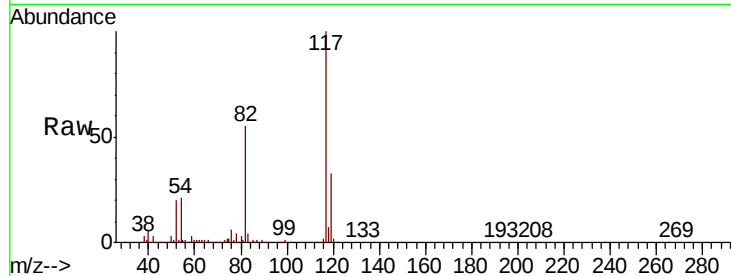




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016047.D
Acq: 04 May 2020 19:47

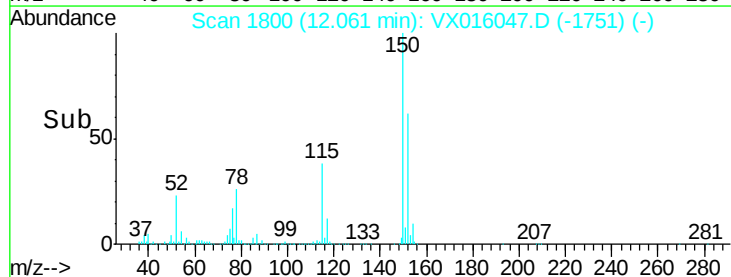
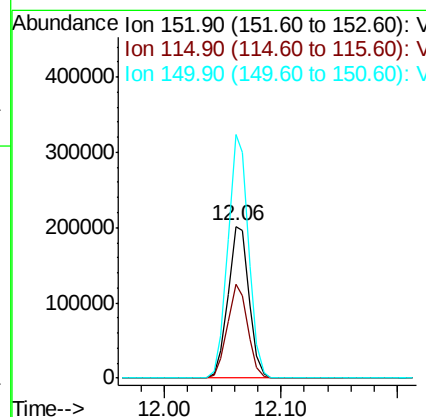
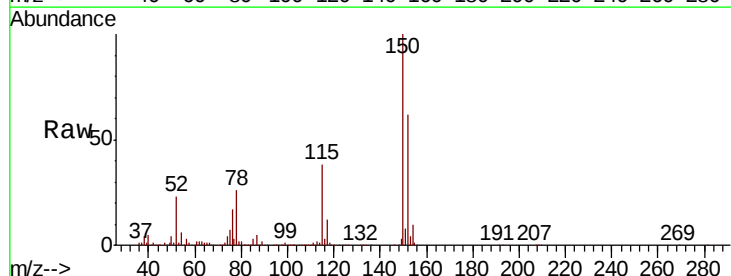
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ124-20200428

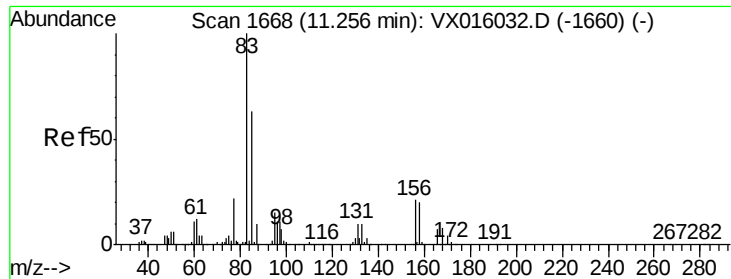
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.4	66.6
119	32.7	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016047.D
Acq: 04 May 2020 19:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.0	41.3	124.1
150	158.2	0.0	352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 4.875 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20200428

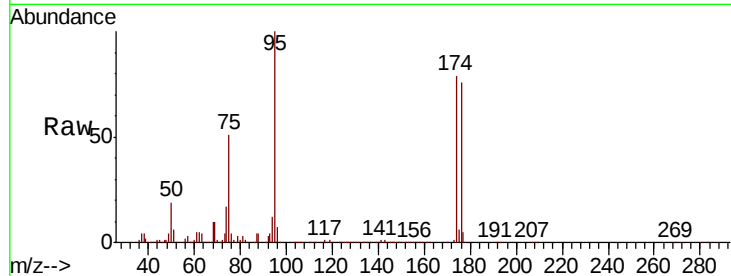
Tot Ion: 83 Resp: 274

Ion Ratio Lower Upper

83 100

131 129.2 5.1 15.4#

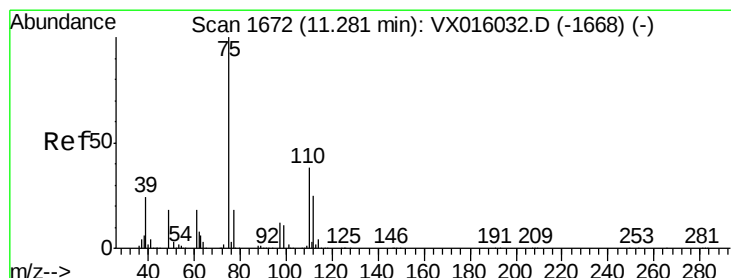
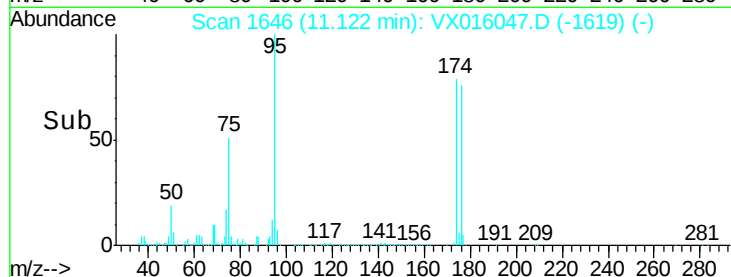
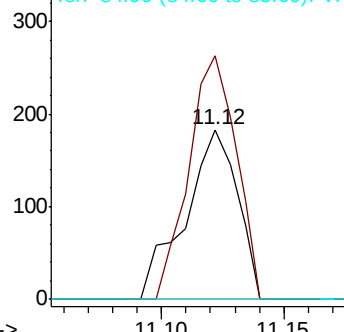
85 0.0 32.0 96.0#



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: 22.035 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016047.D

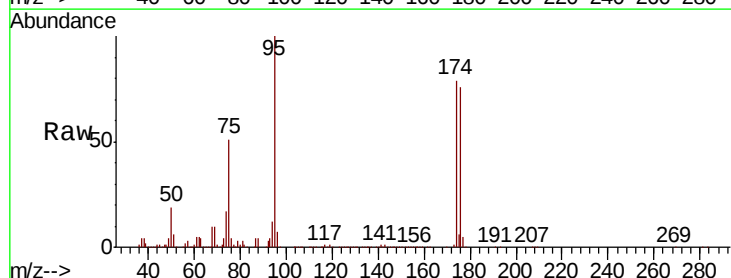
Acq: 04 May 2020 19:47

Tgt Ion: 75 Resp: 124903

Ion Ratio Lower Upper

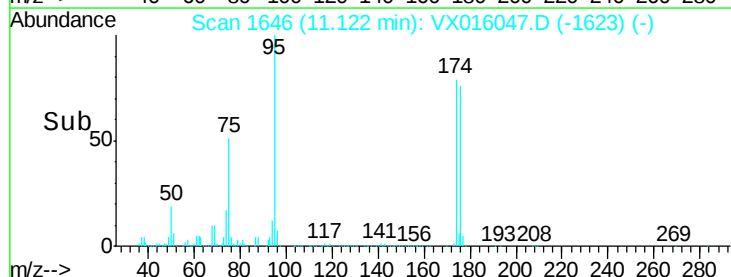
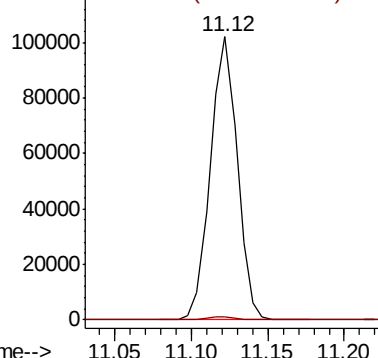
75 100

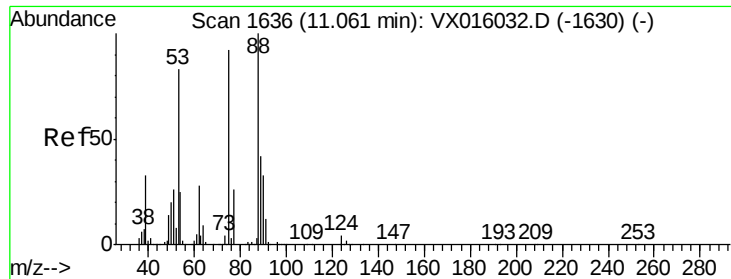
77 1.4 21.2 63.6#



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: 52.512 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20200428

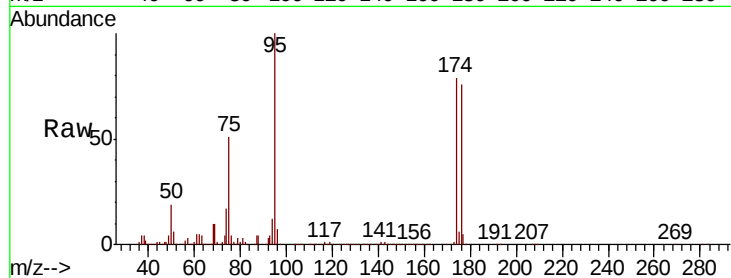
Tot Ion: 75 Resp: 124903

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

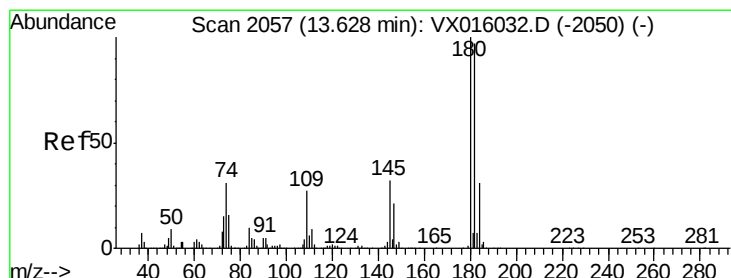
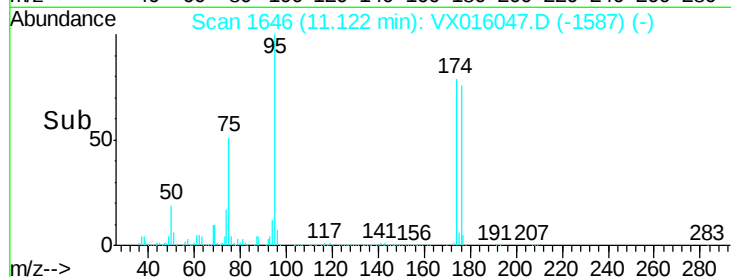
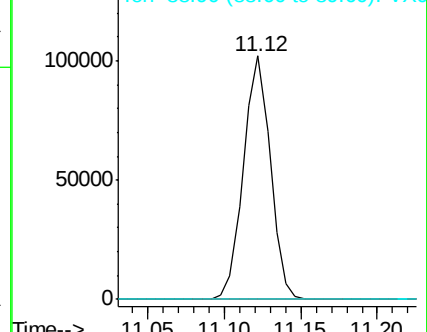
89 0.0 36.7 55.1#



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: 0.210 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

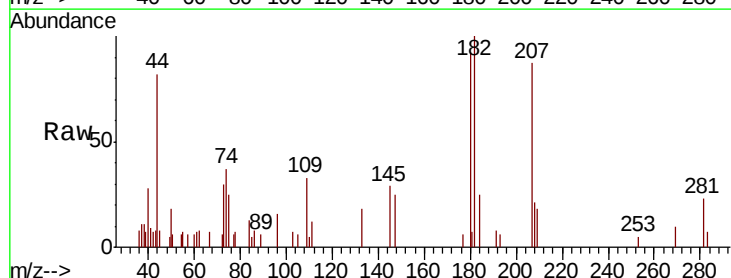
Tgt Ion: 180 Resp: 1261

Ion Ratio Lower Upper

180 100

182 107.1 48.7 146.1

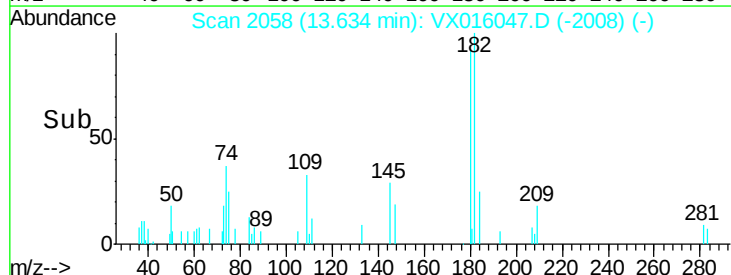
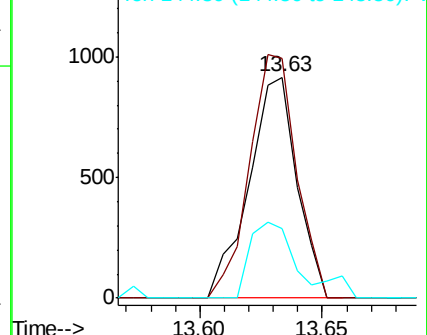
145 34.7 15.7 47.1

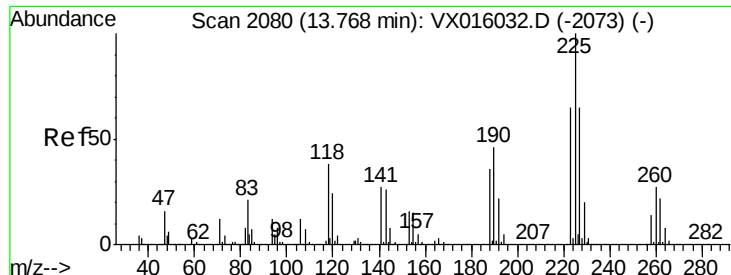


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.594 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016047.D

Acq: 04 May 2020 19:47

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20200428

Tot Ion:225 Resp: 185

Ion Ratio Lower Upper

225 100

223 73.5 32.3 96.9

227 76.8 31.8 95.4

