

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091520\
 Data File : VX018421.D
 Acq On : 15 Sep 2020 20:41
 Operator : JC/SP
 Sample : L4005-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 32-34

Quant Time: Sep 16 03:40:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	422054	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	699533	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	688593	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	335132	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	315426	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	
35) Dibromofluoromethane	5.47	113	245243	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
50) Toluene-d8	8.70	98	848214	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
62) 4-Bromofluorobenzene	11.12	95	319596	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	

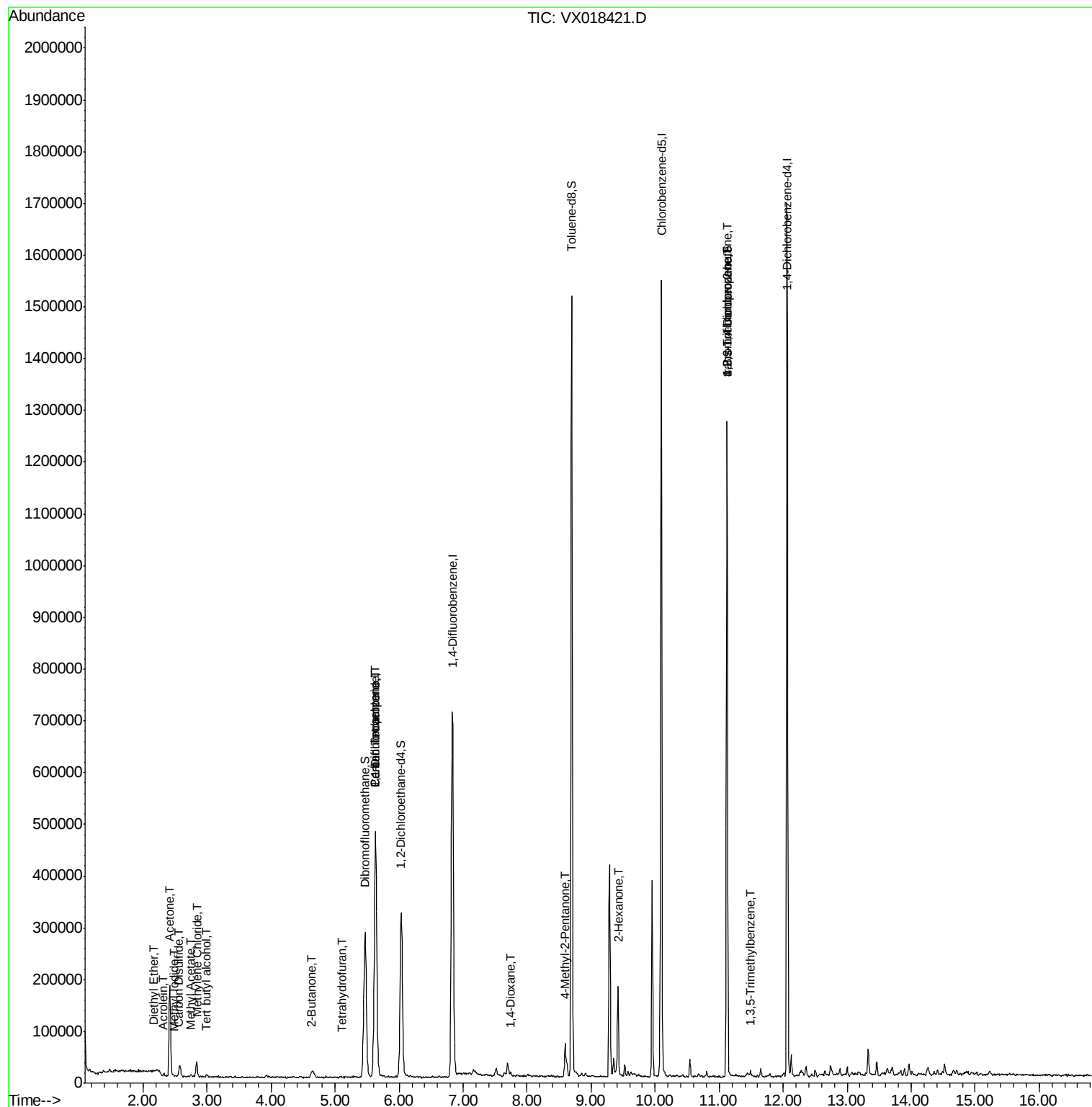
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	910	0.365	ug/l	69
10) Methyl Iodide	2.49	142	414	5.374	ug/l #	52
11) Tert butyl alcohol	3.00	59	3854	3.383	ug/l	97
13) Acrolein	2.31	56	445	0.942	ug/l	99
16) Acetone	2.42	43	186846	81.839	ug/l	92
17) Carbon Disulfide	2.55	76	4227	0.339	ug/l	99
18) Methyl Acetate	2.74	43	5978	1.085	ug/l #	85
20) Methylene Chloride	2.84	84	13527	1.771	ug/l	96
25) 2-Butanone	4.63	43	3355	0.894	ug/l #	83
29) Tetrahydrofuran	5.11	42	2010	0.842	ug/l #	91
36) 1,1-Dichloropropene	5.63	75	33562	5.202	ug/l #	48
38) Carbon Tetrachloride	5.63	117	45269	6.226	ug/l #	19
49) 1,4-Dioxane	7.74	88	206	1.887	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	35702	4.775	ug/l #	37
59) 2-Hexanone	9.42	43	110866	19.501	ug/l #	25
76) 1,2,3-Trichloropropane	11.12	75	167213	22.429	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	4432	0.244	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.12	75	167213	60.578	ug/l #	12

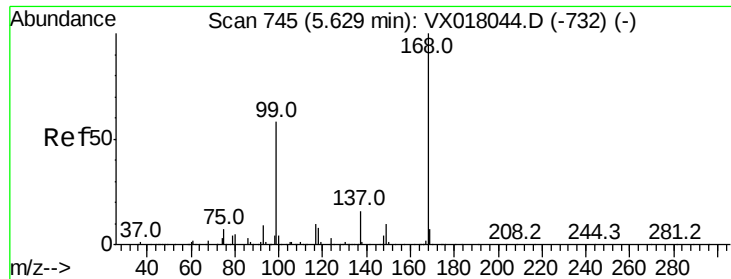
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018421.D

Acq: 15 Sep 2020 20:41

Instrument :

MSVOA_X

ClientSampleId :

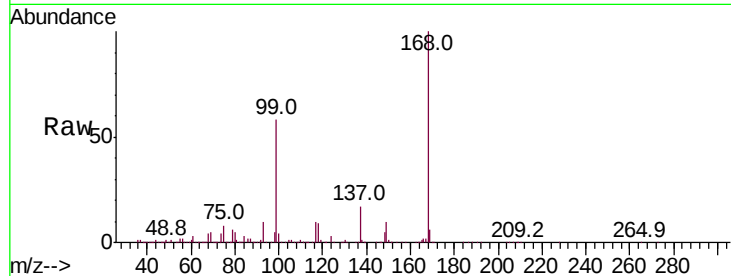
32-34

Tot Ion:168 Resp: 422054

Ion Ratio Lower Upper

168 100

99 58.1 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

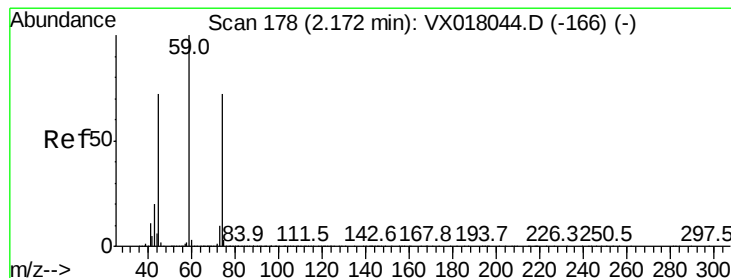
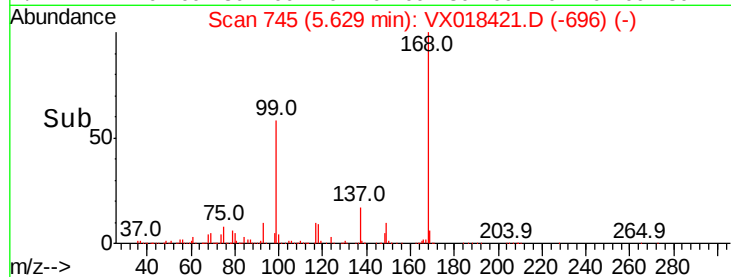
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 0.365 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.01 min

Lab File: VX018421.D

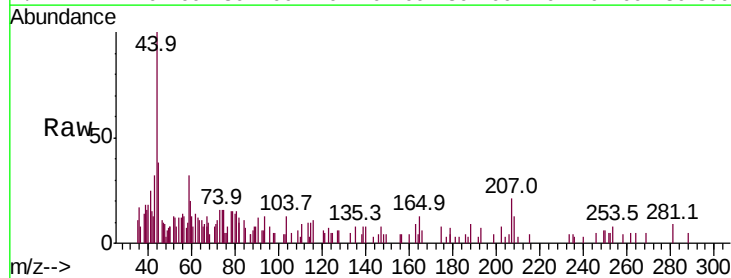
Acq: 15 Sep 2020 20:41

Tgt Ion: 74 Resp: 910

Ion Ratio Lower Upper

74 100

45 133.1 50.7 152.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.17

2000

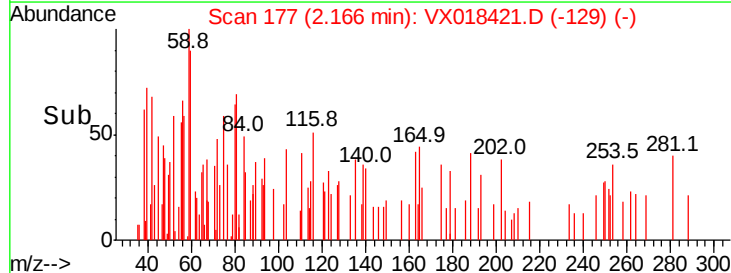
1500

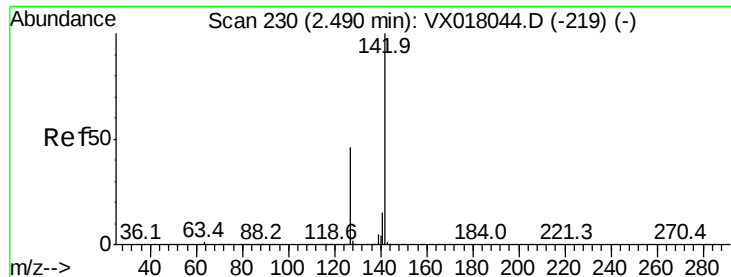
1000

500

0

Time-->

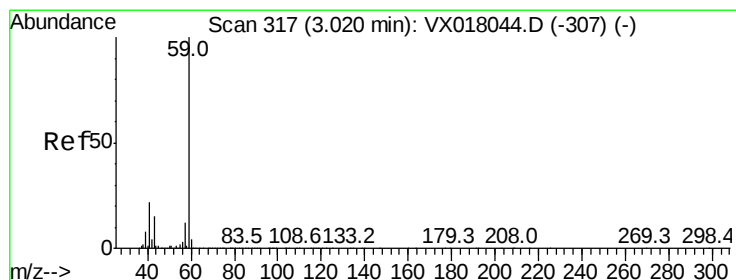
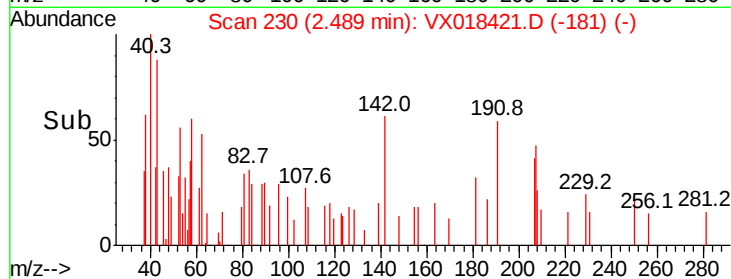
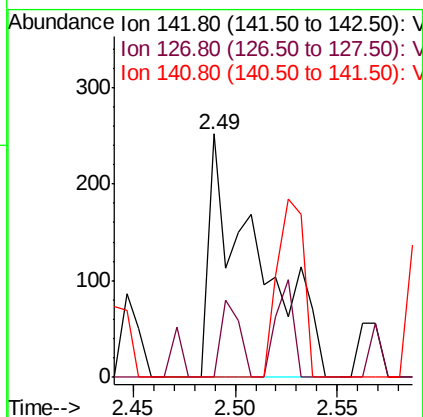
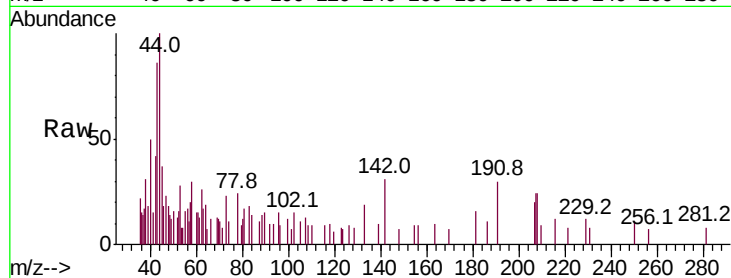




#10
Methvl Iodide
Concen: 5.374 ug/l
RT: 2.49 min Scan# 230
Delta R.T. 0.00 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

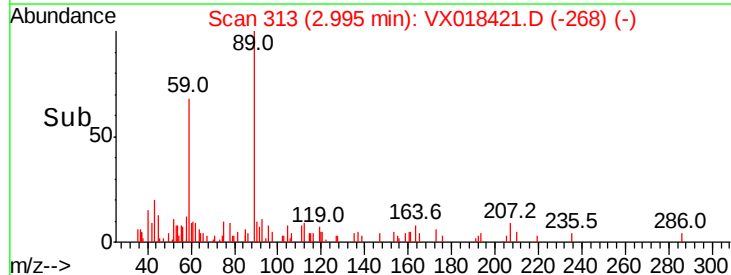
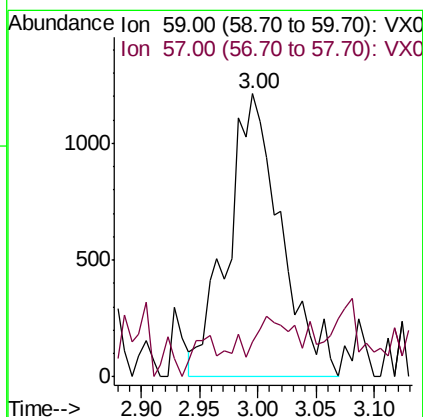
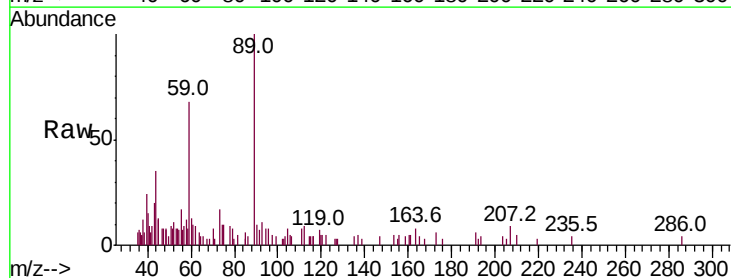
Instrument :
MSVOA_X
ClientSampleId :
32-34

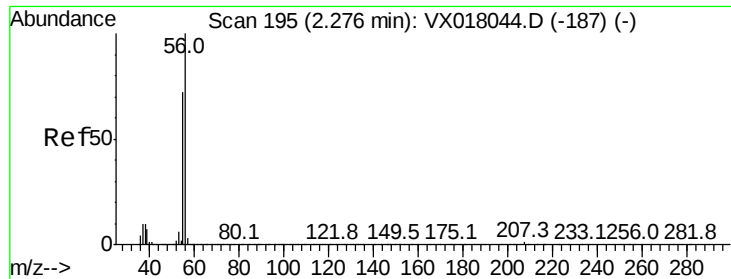
Tot Ion:142 Resp: 414
Ion Ratio Lower Upper
142 100
127 12.1 37.0 55.6#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 3.383 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

Tgt Ion: 59 Resp: 3854
Ion Ratio Lower Upper
59 100
57 9.9 8.9 13.3

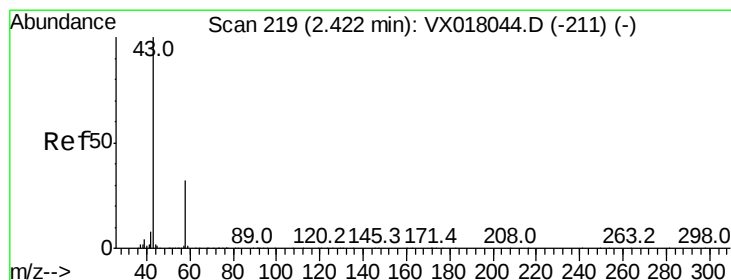
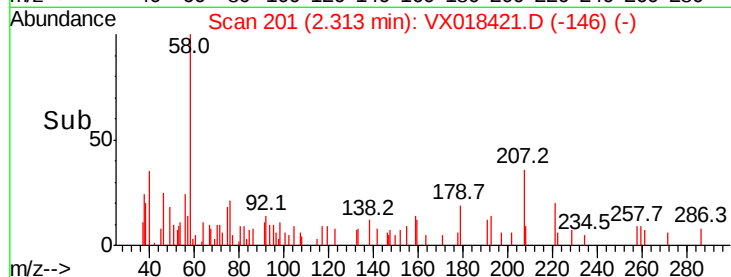
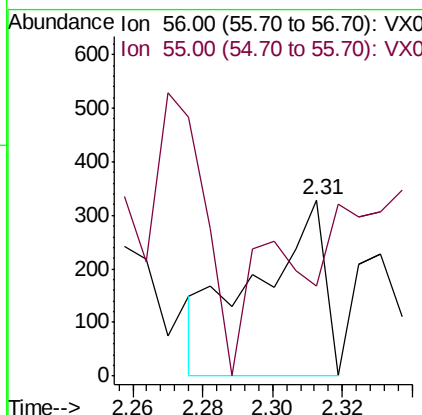
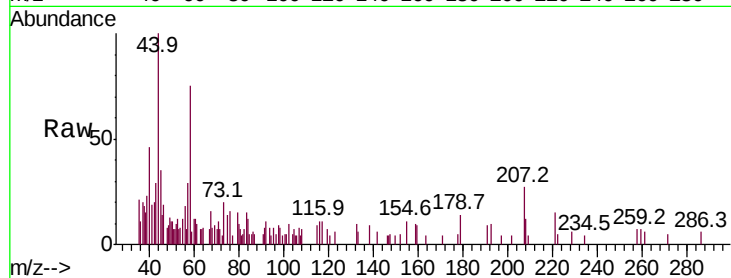




#13
Acrolein
Concen: 0.942 ug/l
RT: 2.31 min Scan# 201
Delta R.T. 0.04 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

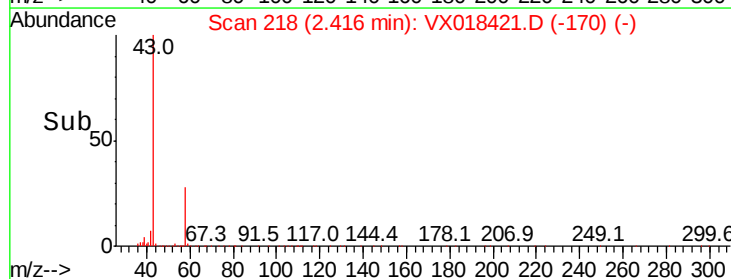
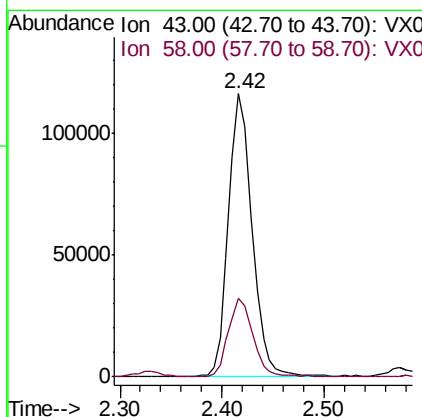
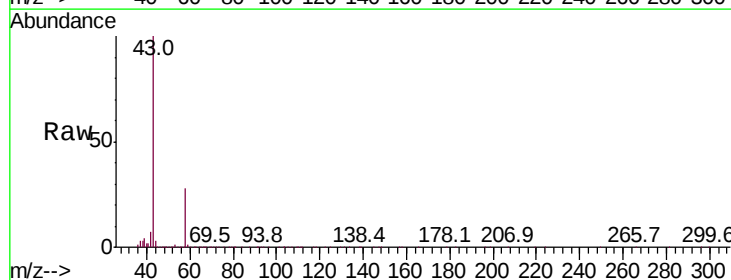
Instrument :
MSVOA_X
ClientSampled :
32-34

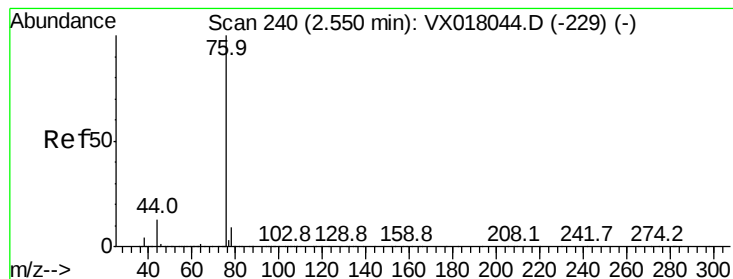
Tot Ion: 56 Resp: 445
Ion Ratio Lower Upper
56 100
55 70.1 57.0 85.6



#16
Acetone
Concen: 81.839 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

Tgt Ion: 43 Resp: 186846
Ion Ratio Lower Upper
43 100
58 27.6 25.5 38.3





#17

Carbon Disulfide

Concen: 0.339 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX018421.D

Acq: 15 Sep 2020 20:41

Instrument :

MSVOA_X

ClientSampled :

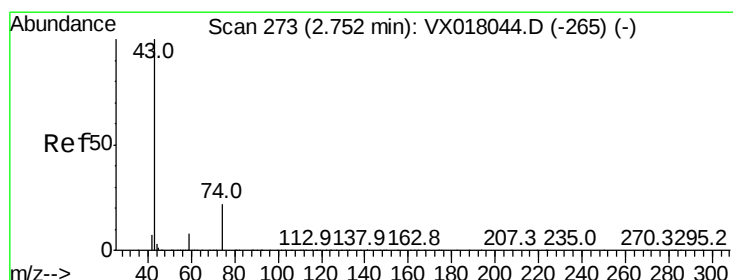
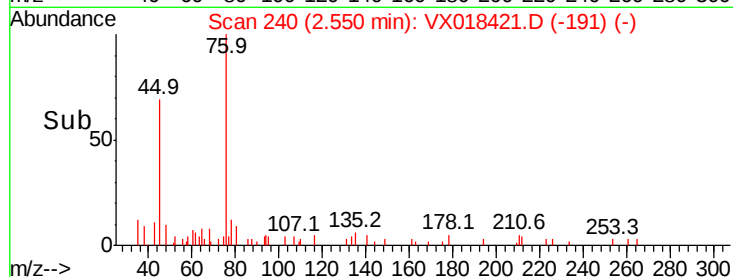
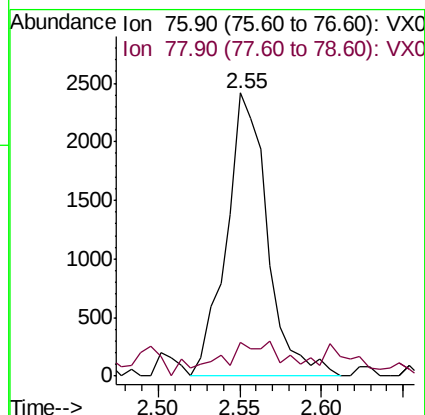
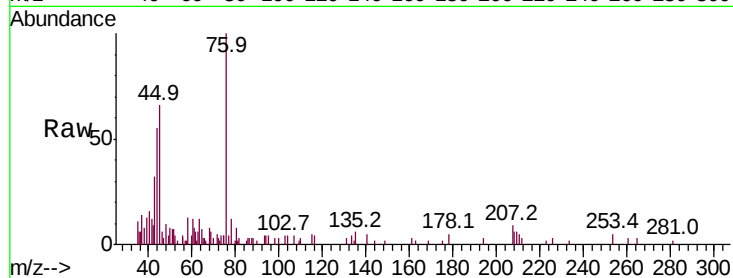
32-34

Tot Ion: 76 Resp: 4227

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.0



#18

Methyl Acetate

Concen: 1.085 ug/l

RT: 2.74 min Scan# 271

Delta R.T. -0.01 min

Lab File: VX018421.D

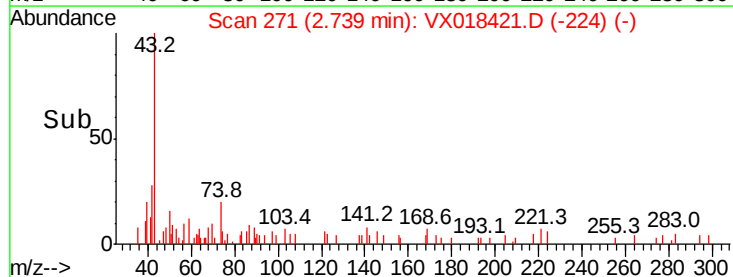
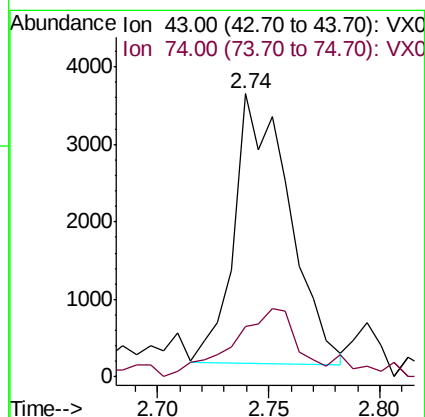
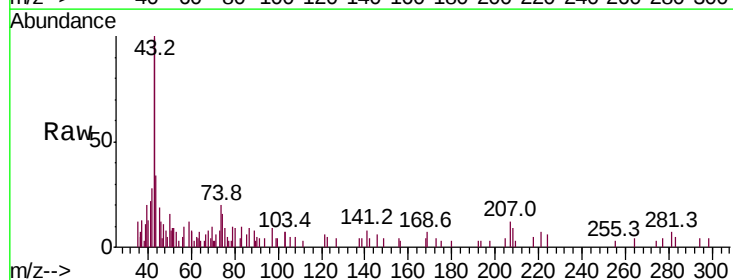
Acq: 15 Sep 2020 20:41

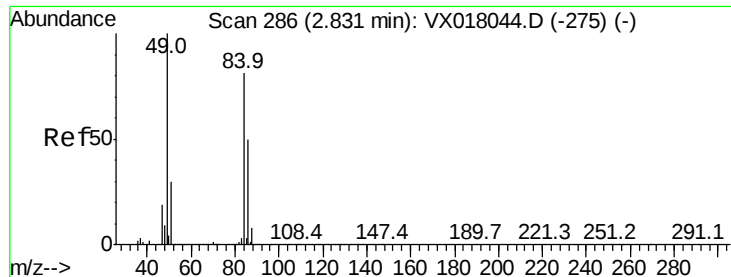
Tgt Ion: 43 Resp: 5978

Ion Ratio Lower Upper

43 100

74 30.1 18.2 27.4#

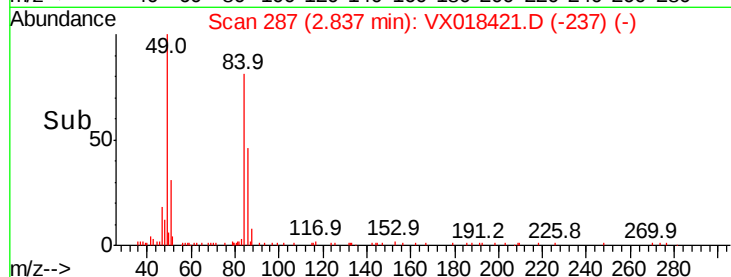
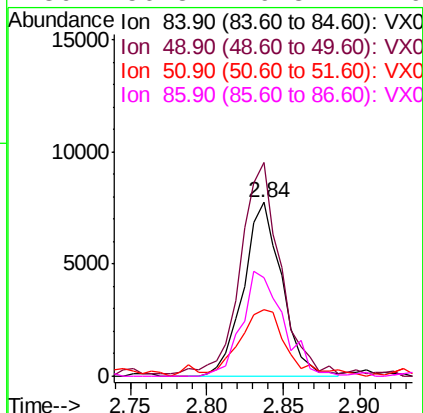
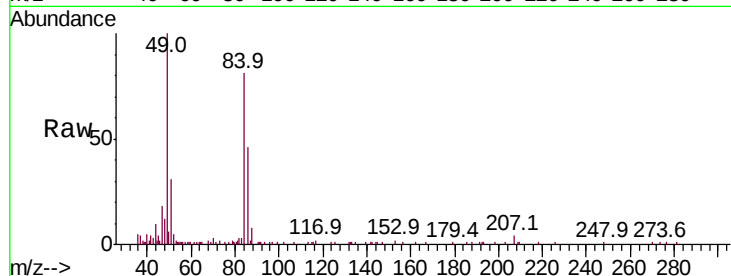




#20
Methvlene Chloride
Concen: 1.771 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

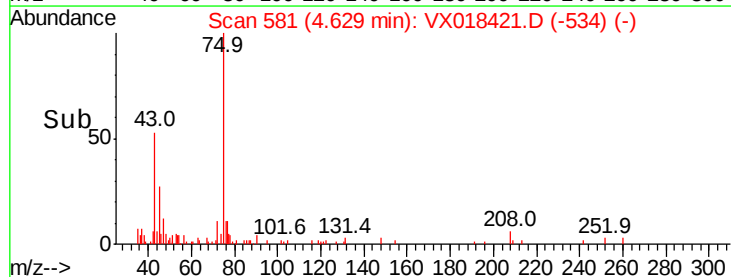
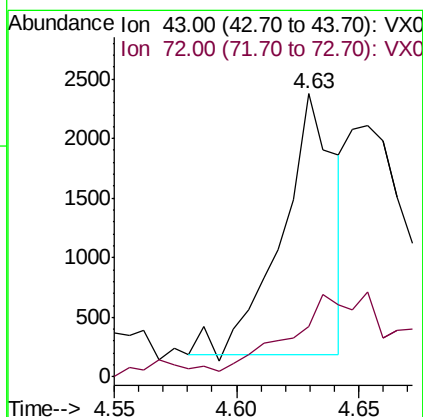
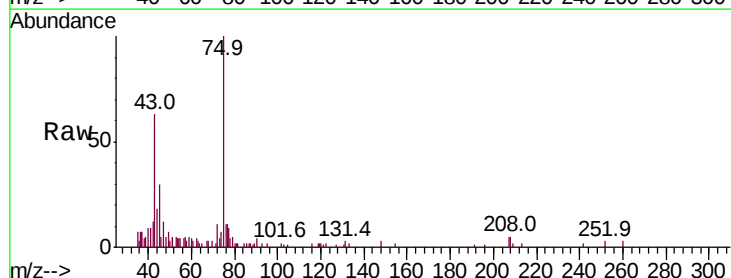
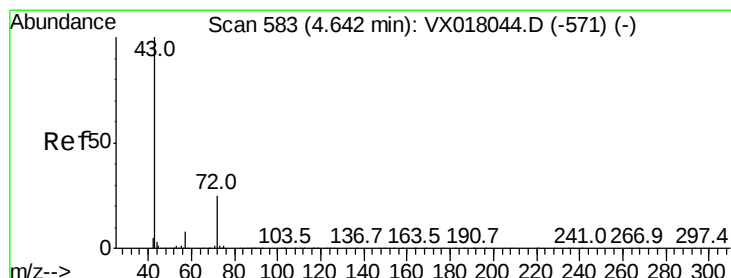
Instrument :
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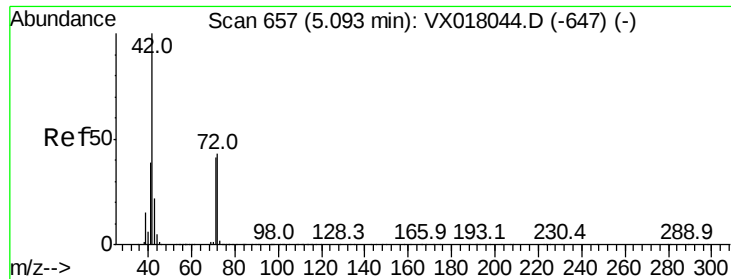
Tot Ion:	84	Resp:	13527
Ion	Ratio	Lower	Upper
84	100		
49	121.4	98.6	148.0
51	34.7	29.6	44.4
86	56.8	49.8	74.6



#25
2-Butanone
Concen: 0.894 ug/l
RT: 4.63 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

Tgt Ion:	43	Resp:	3355
Ion	Ratio	Lower	Upper
43	100		
72	16.0	19.8	29.6#





#29

Tetrahydrofuran

Concen: 0.842 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX018421.D

Acq: 15 Sep 2020 20:41

Instrument :

MSVOA_X

ClientSampled :

32-34

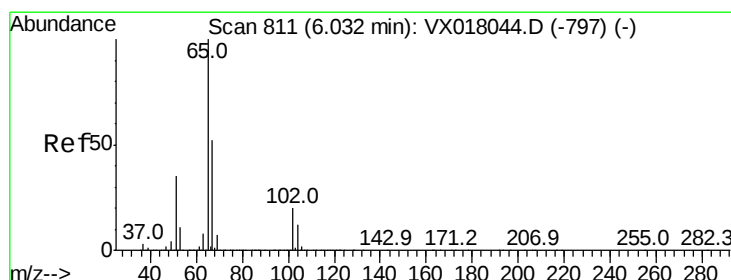
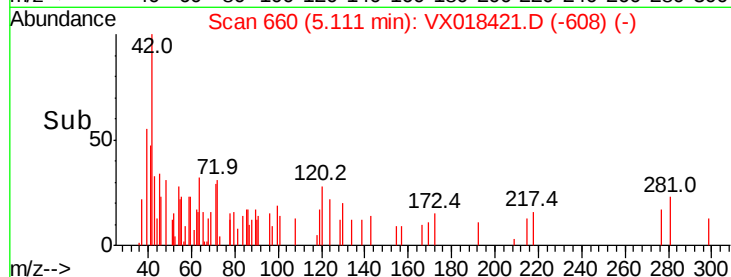
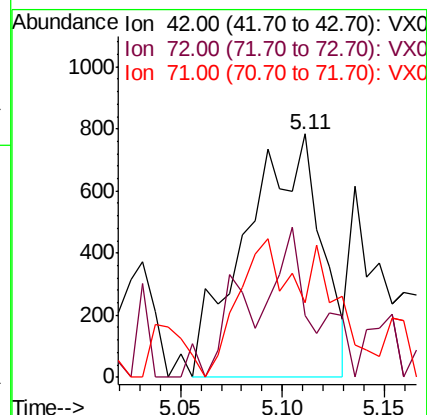
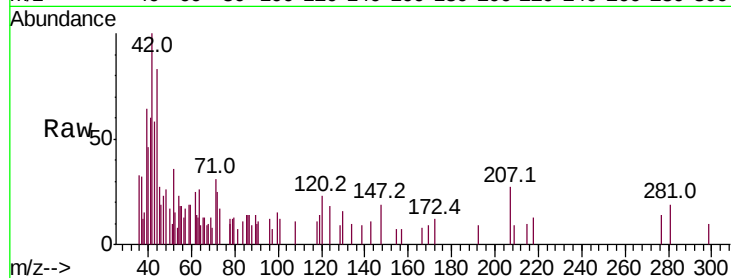
Tot Ion: 42 Resp: 2010

Ion Ratio Lower Upper

42 100

72 33.0 34.2 51.4#

71 41.2 32.1 48.1



#33

1,2-Dichloroethane-d4

Concen: 53.834 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018421.D

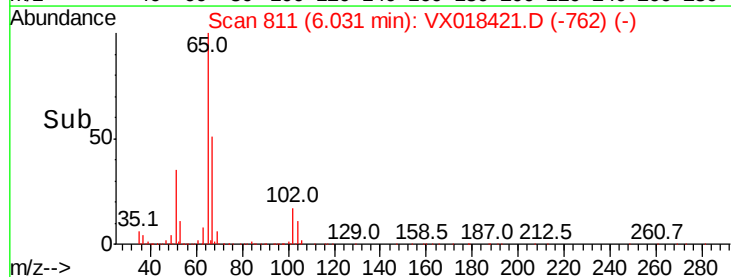
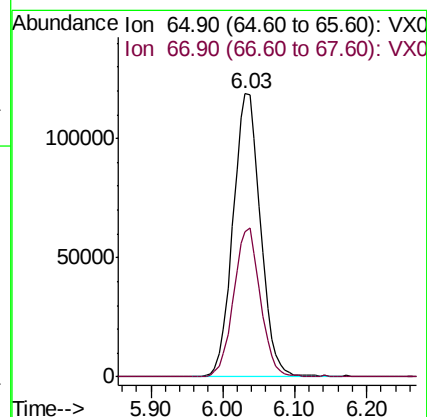
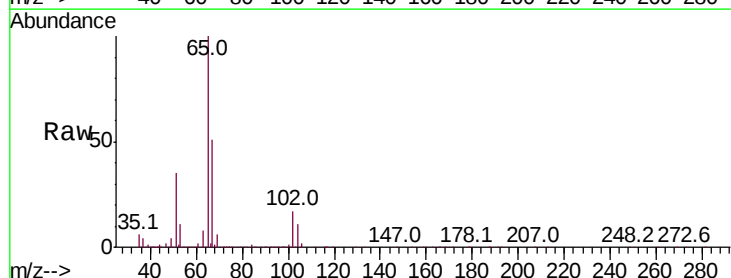
Acq: 15 Sep 2020 20:41

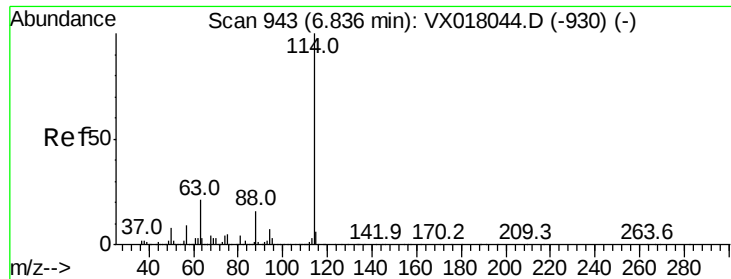
Tgt Ion: 65 Resp: 315426

Ion Ratio Lower Upper

65 100

67 50.9 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018421.D

Acq: 15 Sep 2020 20:41

Instrument :

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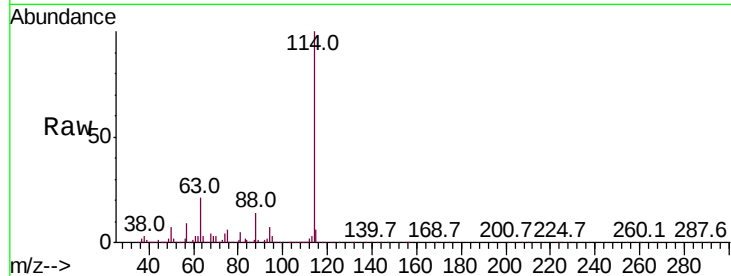
Tot Ion:114 Resp: 699533

Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.6

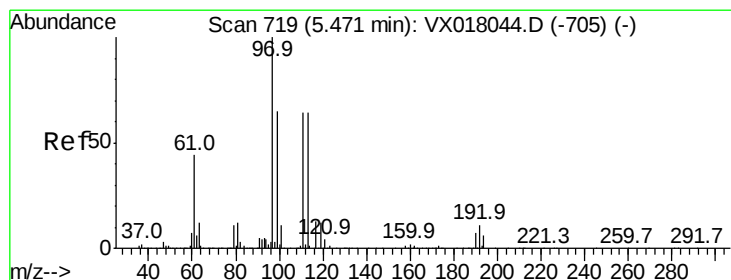
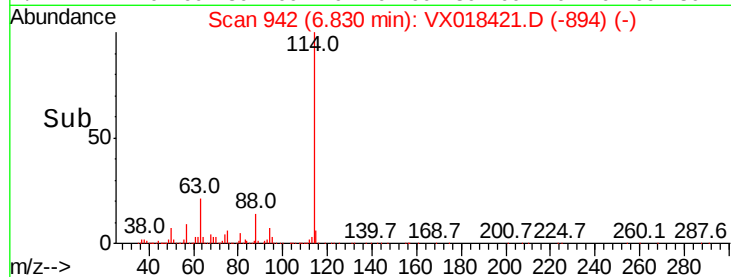
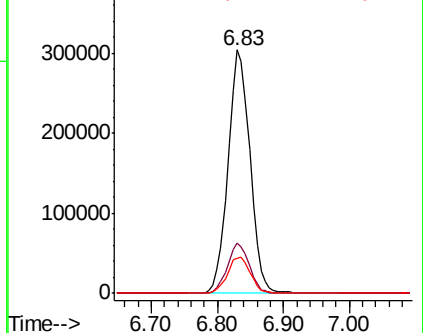
88 14.4 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 51.477 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018421.D

Acq: 15 Sep 2020 20:41

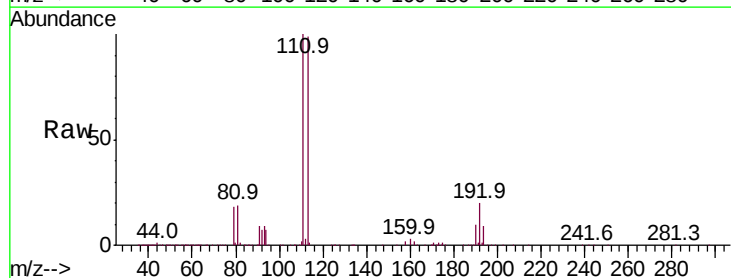
Tgt Ion:113 Resp: 245243

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

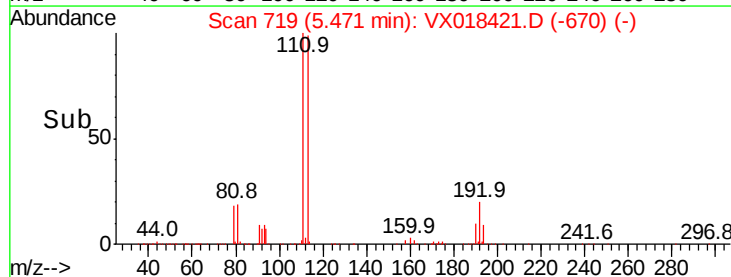
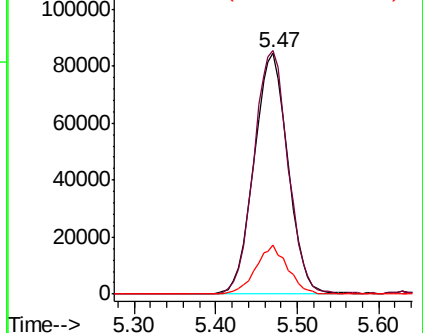
192 19.2 15.8 23.8

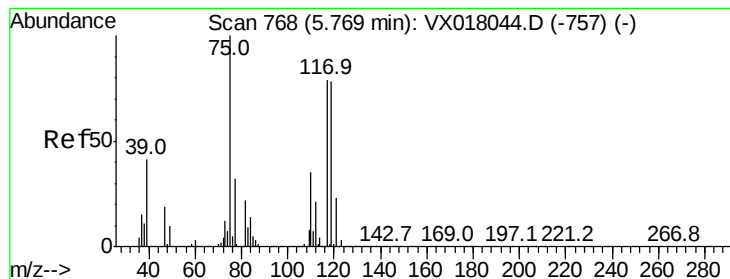


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.202 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018421.D

Acq: 15 Sep 2020 20:41

Instrument :

MSVOA_X

ClientSampleId :

32-34

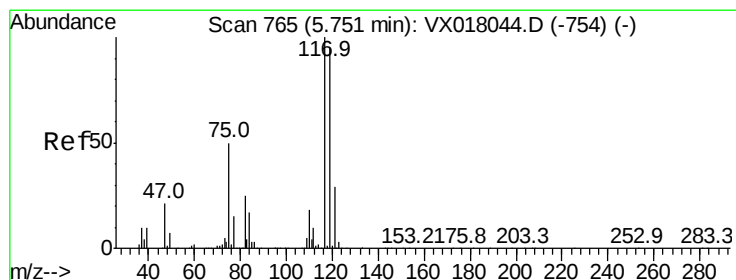
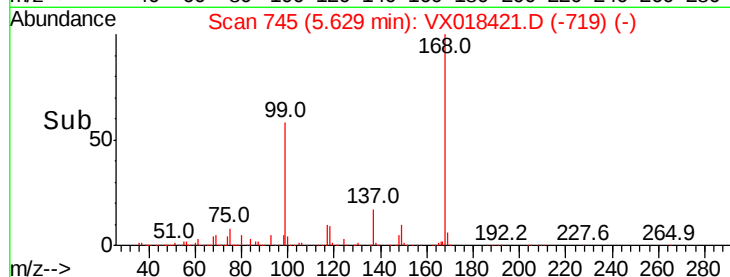
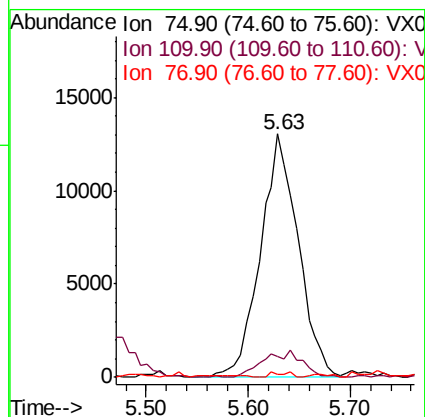
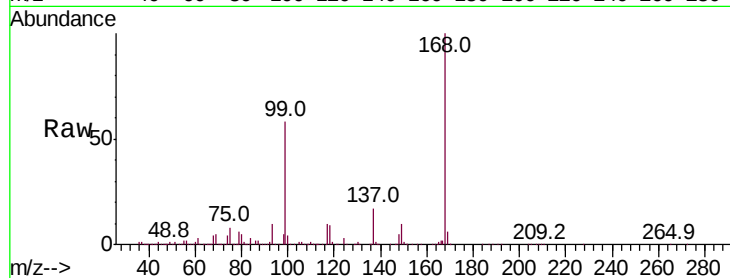
Tot Ion: 75 Resp: 33562

Ion Ratio Lower Upper

75 100

110 6.8 18.0 54.0#

77 1.1 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.226 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018421.D

Acq: 15 Sep 2020 20:41

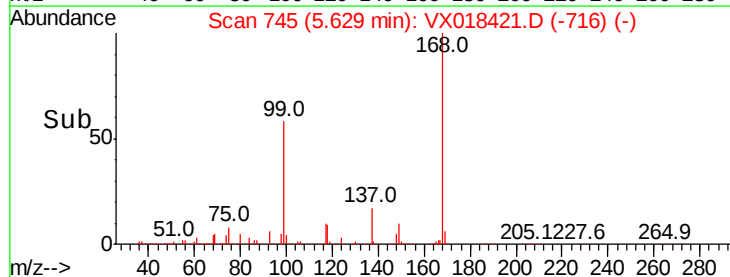
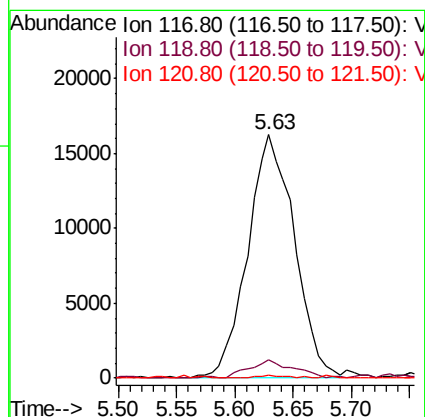
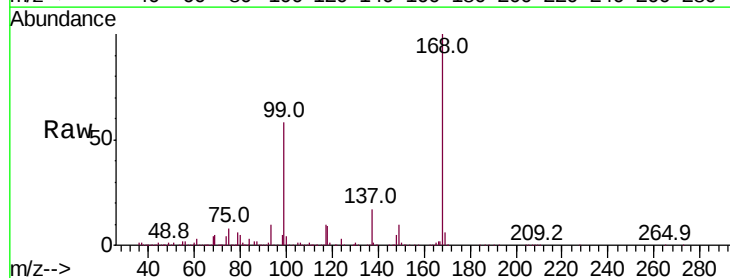
Tgt Ion: 117 Resp: 45269

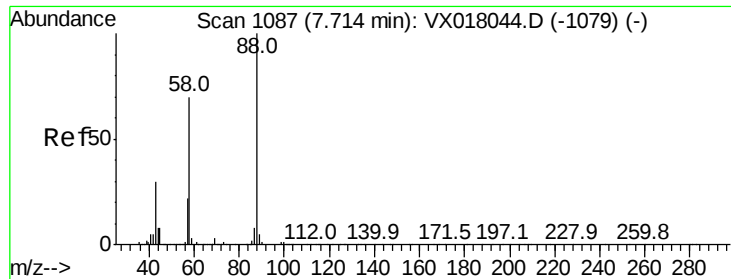
Ion Ratio Lower Upper

117 100

119 7.0 75.8 113.6#

121 1.3 23.4 35.0#

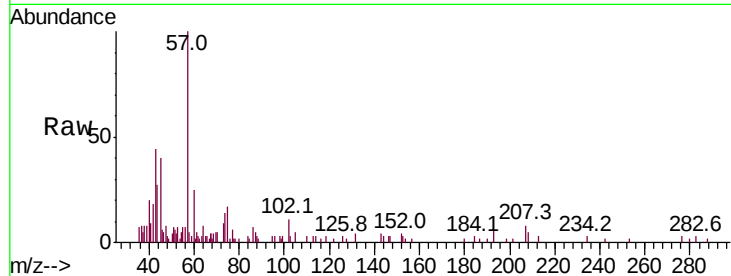




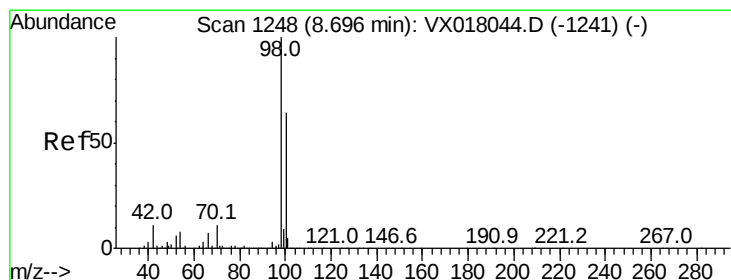
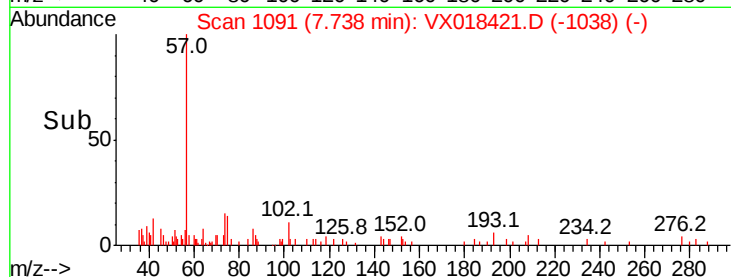
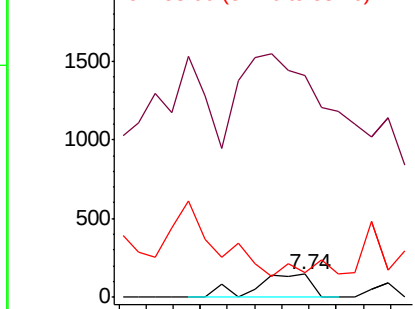
#49
1,4-Dioxane
Concen: 1.887 ug/l
RT: 7.74 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

Instrument :
MSVOA_X
ClientSampled :
32-34

Tot Ion: 88 Resp: 206
Ion Ratio Lower Upper
88 100
43 897.1 27.4 41.0#
58 0.0 56.4 84.6#

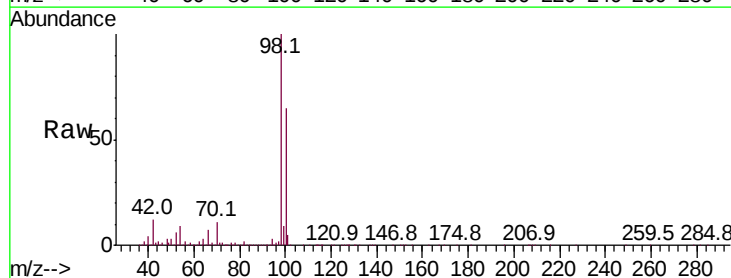


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

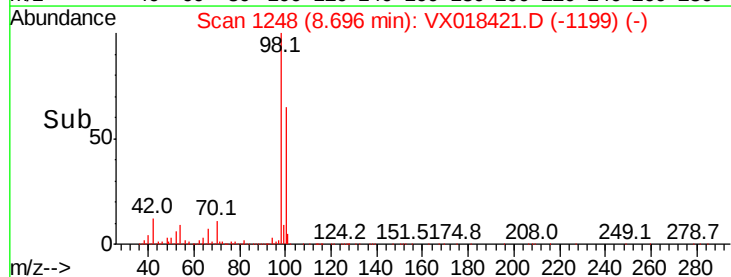
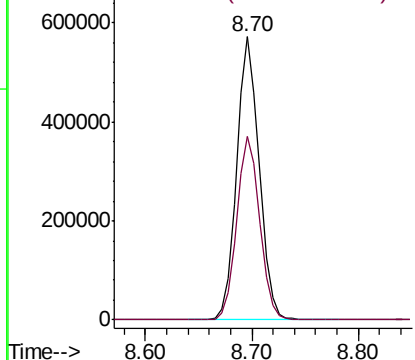


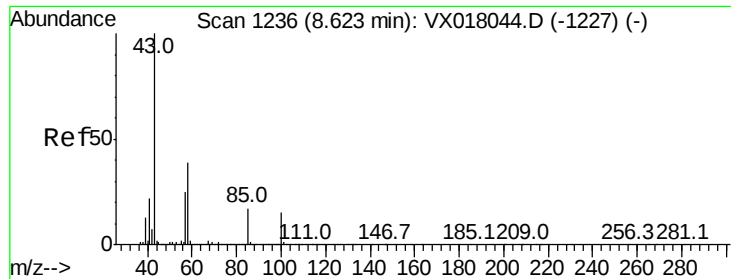
#50
Toluene-d8
Concen: 47.802 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

Tgt Ion: 98 Resp: 848214
Ion Ratio Lower Upper
98 100
100 66.0 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

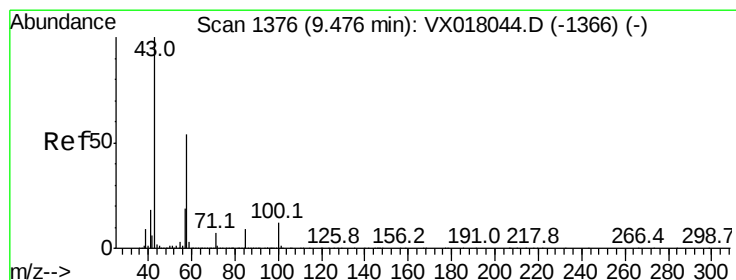
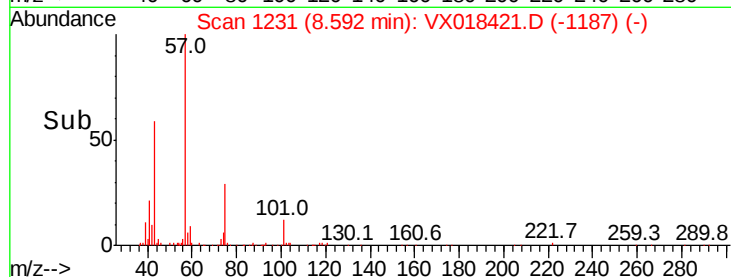
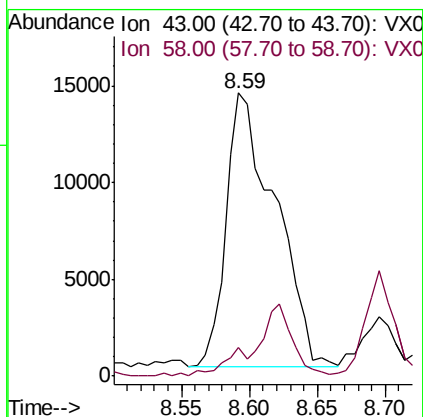
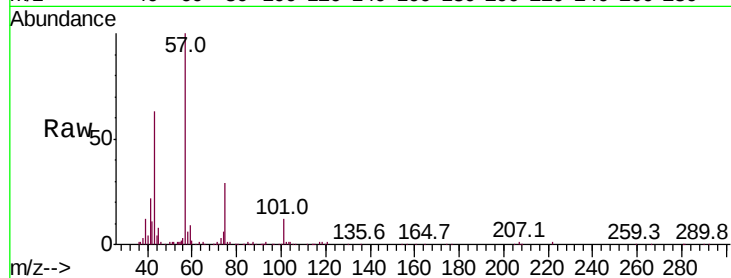




#51
4-Methyl-2-Pentanone
Concen: 4.775 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

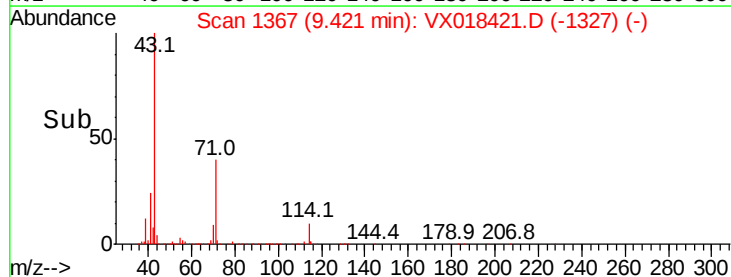
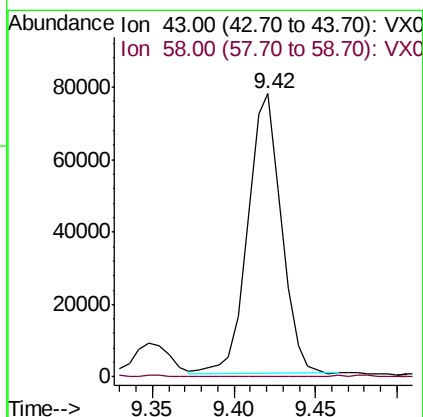
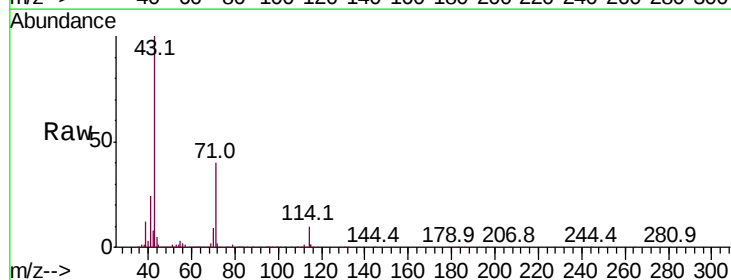
Instrument :
MSVOA_X
ClientSampleId :
32-34

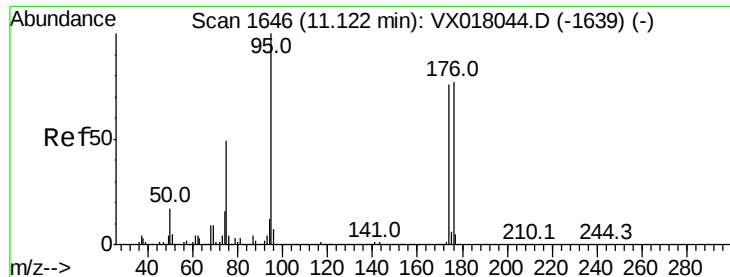
Tot Ion: 43 Resp: 35702
Ion Ratio Lower Upper
43 100
58 0.0 30.7 46.1#



#59
2-Hexanone
Concen: 19.501 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

Tgt Ion: 43 Resp: 110866
Ion Ratio Lower Upper
43 100
58 0.0 26.6 79.7#

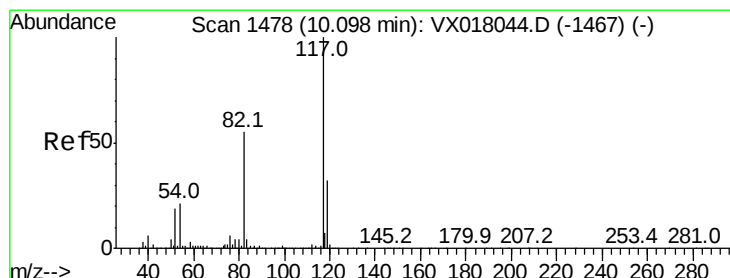
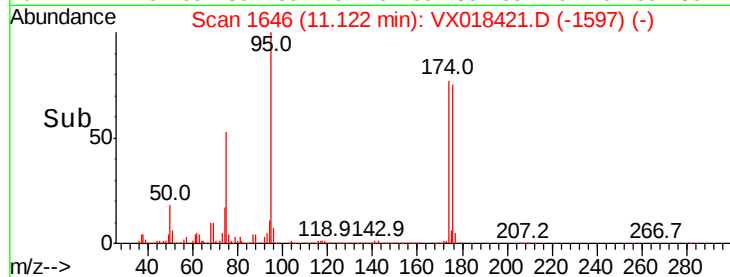
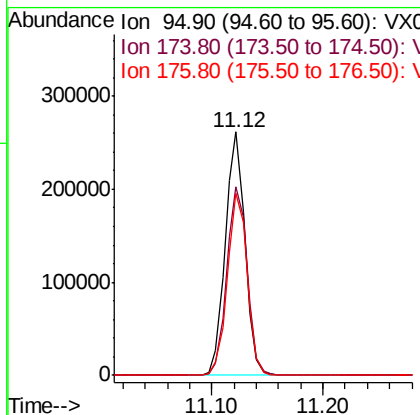
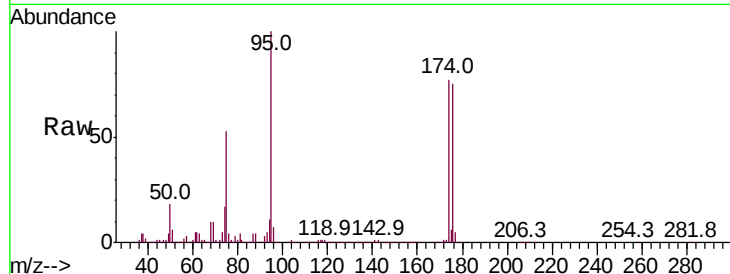




#62
4-Bromofluorobenzene
Concen: 45.779 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

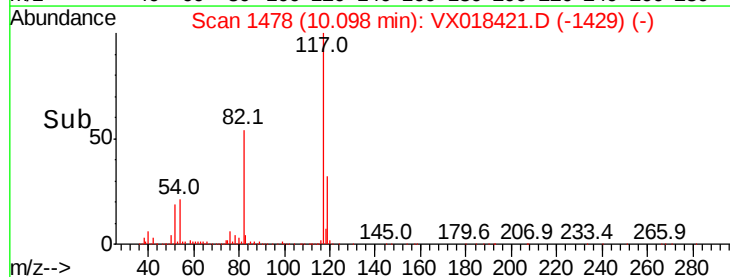
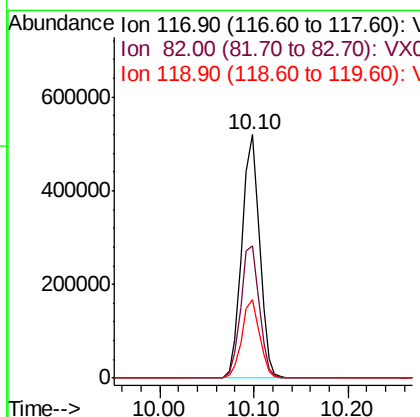
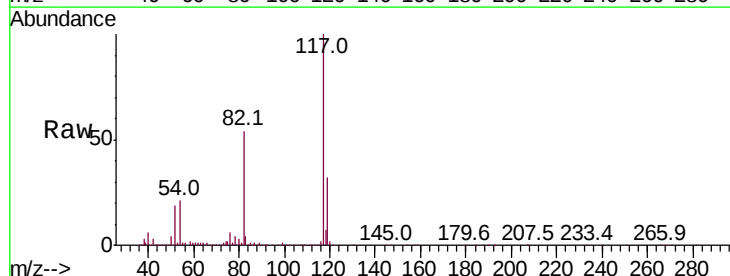
Instrument :
MSVOA_X
ClientSampleId :
32-34

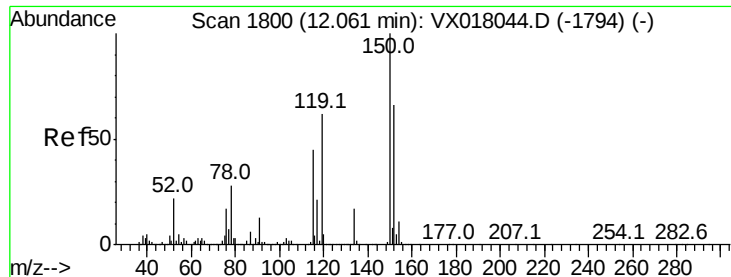
Tot Ion	Ratio	Lower	Upper
95	100		
174	80.1	0.0	160.2
176	75.2	0.0	155.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018421.D
Acq: 15 Sep 2020 20:41

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.5	44.2	66.2
119	32.2	25.7	38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018421.D

Acq: 15 Sep 2020 20:41

Instrument :

MSVOA_X

ClientSampleId :

32-34

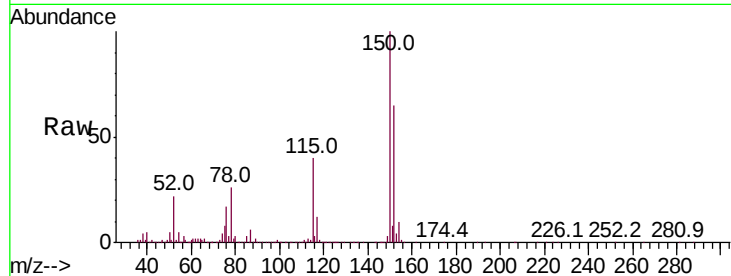
Tot Ion:152 Resp: 335132

Ion Ratio Lower Upper

152 100

115 60.1 41.5 124.5

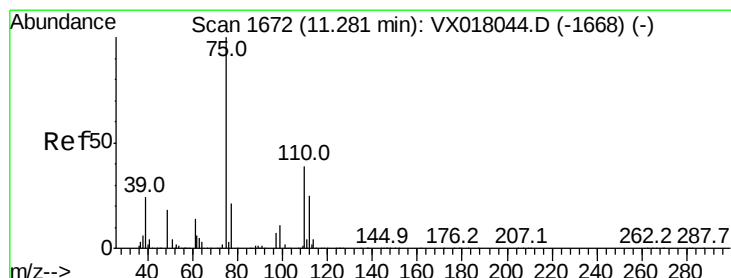
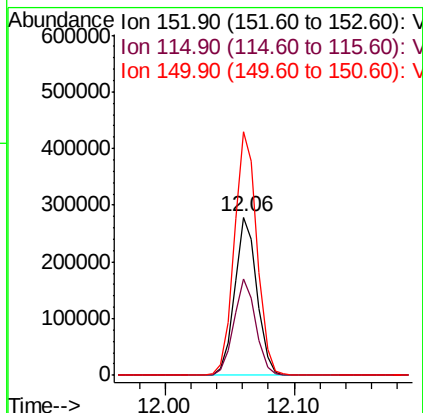
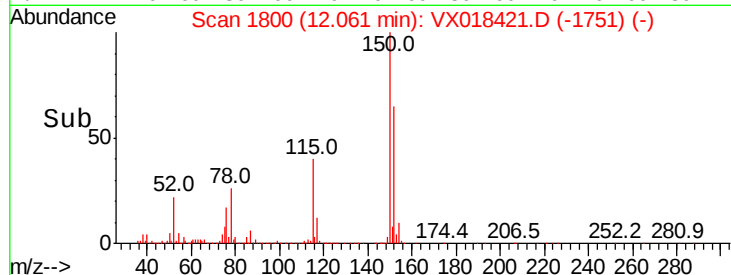
150 157.1 0.0 343.8



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



#76

1,2,3-Trichloropropane

Concen: 22.429 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018421.D

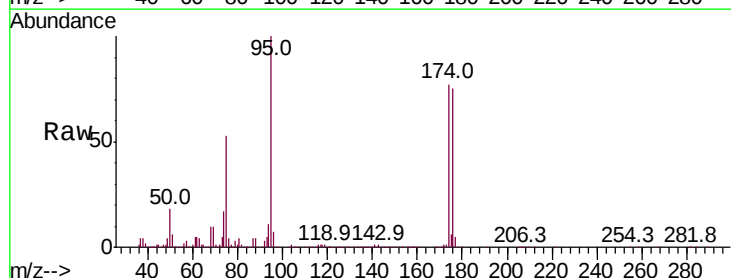
Acq: 15 Sep 2020 20:41

Tgt Ion: 75 Resp: 167213

Ion Ratio Lower Upper

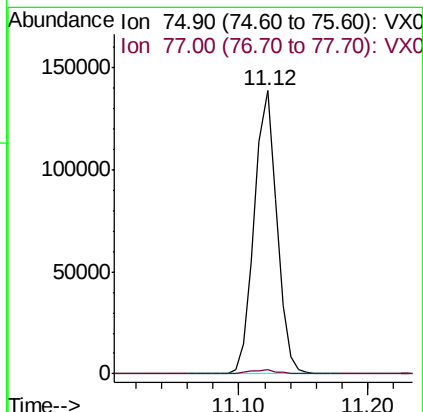
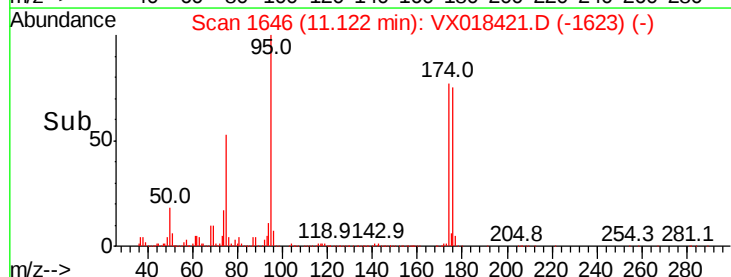
75 100

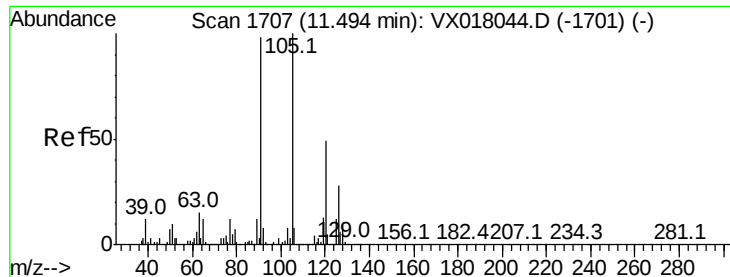
77 1.7 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.244 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX018421.D

Acq: 15 Sep 2020 20:41

Instrument :

MSVOA_X

ClientSampled :

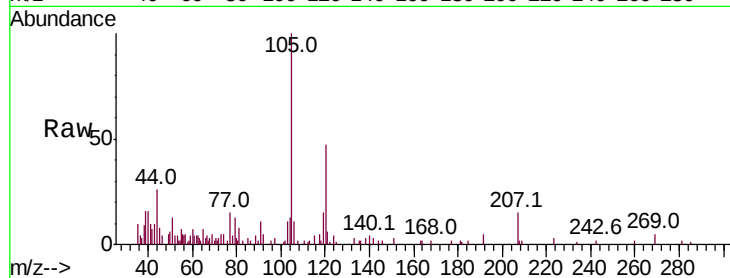
32-34

Tot Ion:105 Resp: 4432

Ion Ratio Lower Upper

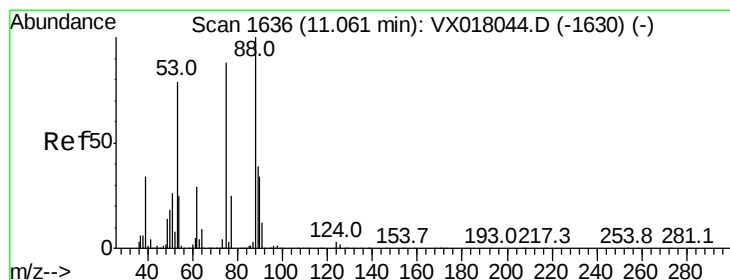
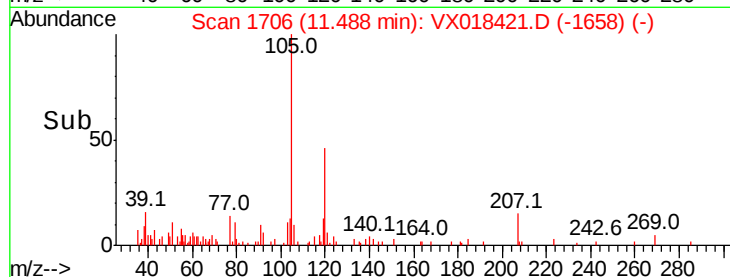
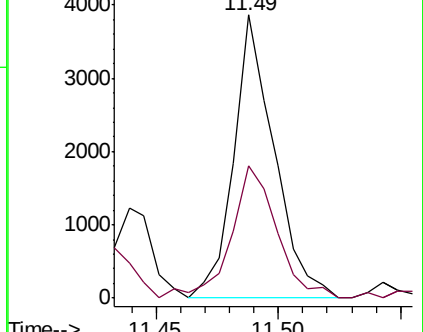
105 100

120 52.9 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 60.578 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018421.D

Acq: 15 Sep 2020 20:41

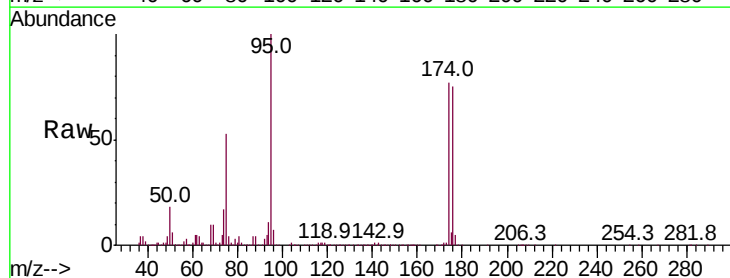
Tgt Ion: 75 Resp: 167213

Ion Ratio Lower Upper

75 100

53 0.2 74.7 112.1#

89 0.1 36.6 54.8#



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

