

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052618\
 Data File : VX002031.D
 Acq On : 26 May 2018 20:46
 Operator : JC/MD
 Sample : J3118-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 28 00:36:07 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	315453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	440619	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	387053	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	206853	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	265509	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
35) Dibromofluoromethane	5.51	113	206134	46.78	ug/l	0.00
Spiked Amount			Recovery	=	93.56%	
50) Toluene-d8	8.72	98	778865	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
62) 4-Bromofluorobenzene	11.14	95	273073	43.75	ug/l	0.00
Spiked Amount			Recovery	=	87.50%	

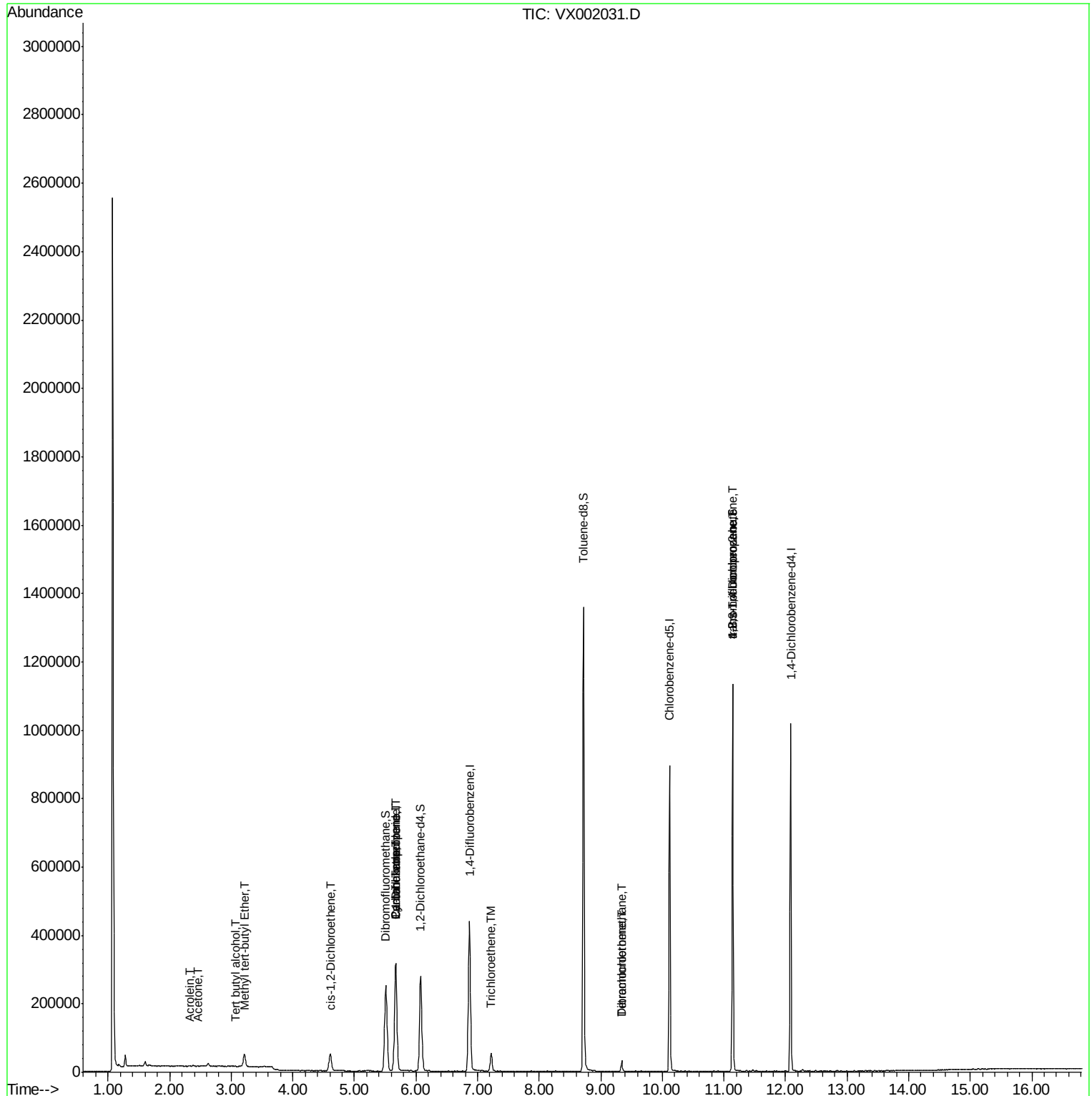
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	88	Below Cal	#	41
5) Bromomethane	1.66	94	922	Below Cal		92
11) Tert butyl alcohol	3.07	59	372	0.34	ug/l #	71
13) Acrolein	2.32	56	192	0.40	ug/l #	1
16) Acetone	2.45	43	1173	0.54	ug/l	99
18) Methyl Acetate	2.78	43	597	Below Cal	#	91
19) Methyl tert-butyl Ether	3.21	73	40827	2.95	ug/l	100
20) Methylene Chloride	2.85	84	258	Below Cal	#	39
21) trans-1,2-Dichloroethene	3.16	96	511	Below Cal	#	90
27) cis-1,2-Dichloroethene	4.60	96	29204	6.09	ug/l	97
28) Bromochloromethane	4.94	49	19	Below Cal	#	14
31) Cyclohexane	5.67	56	6497	0.84	ug/l #	12
36) 1,1-Dichloropropene	5.67	75	21831	3.56	ug/l #	53
38) Carbon Tetrachloride	5.67	117	28804	4.03	ug/l #	14
41) Methacrylonitrile	5.09	41	172	Below Cal	#	30
44) Trichloroethene	7.22	130	20426	3.90	ug/l	95
60) Dibromochloromethane	9.34	129	5078	0.90	ug/l #	11
64) Tetrachloroethene	9.34	164	5483	0.99	ug/l	94
74) N-amyl acetate	6.46	43	57	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.30	83	66	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	143354	28.85	ug/l #	33
79) 2-Chlorotoluene	11.51	91	158	Below Cal		85
81) trans-1,4-Dichloro-2-buten	11.14	75	143354	69.34	ug/l #	10

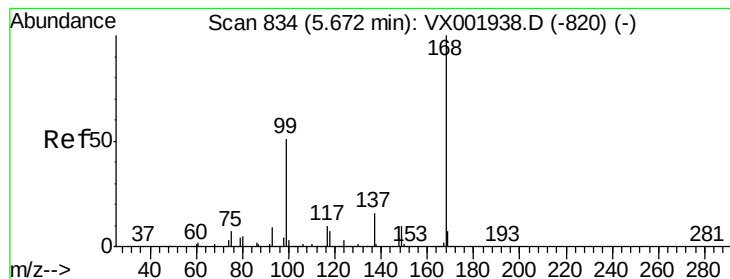
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052618\
Data File : VX002031.D
Acq On : 26 May 2018 20:46
Operator : JC/MD
Sample : J3118-11
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: May 28 00:36:07 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
Quant Title : SW846 8260
QLast Update : Thu May 24 13:09:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Instrument :

MSVOA_X

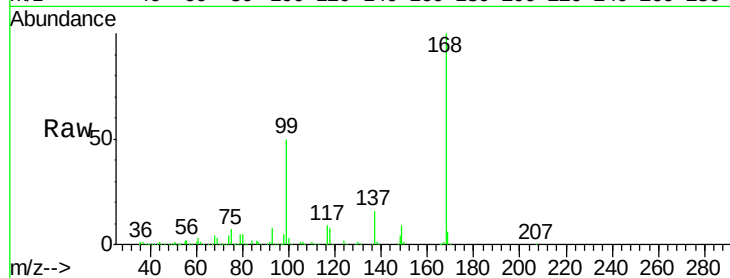
ClientSampleId :

Tot Ion:168 Resp: 315453

Ion Ratio Lower Upper

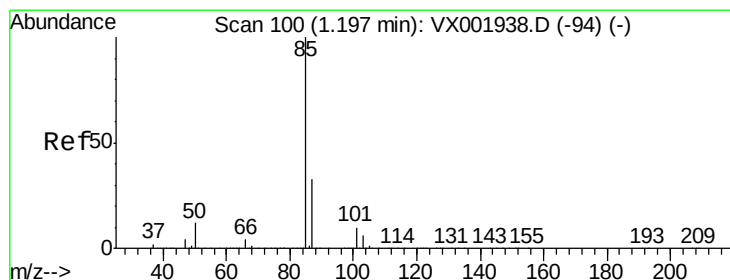
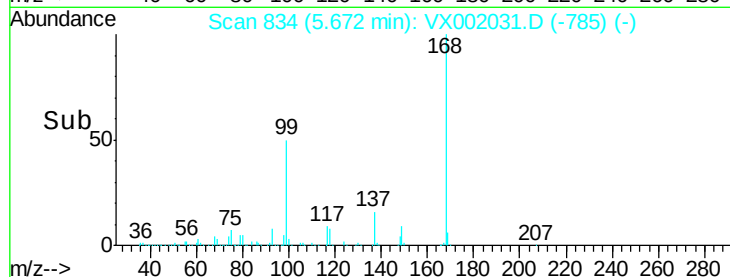
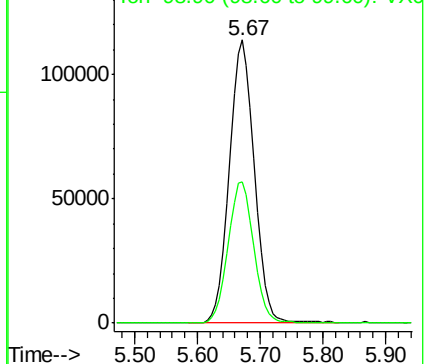
168 100

99 49.8 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002031.D

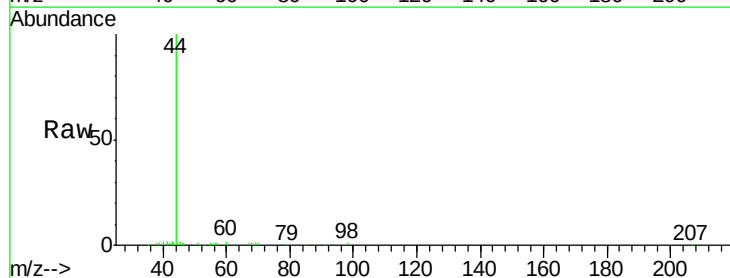
Acq: 26 May 2018 20:46

Tgt Ion: 85 Resp: 88

Ion Ratio Lower Upper

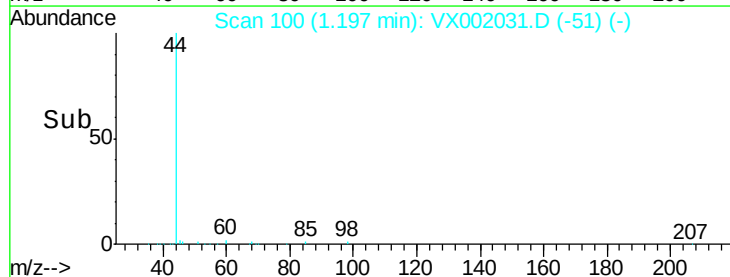
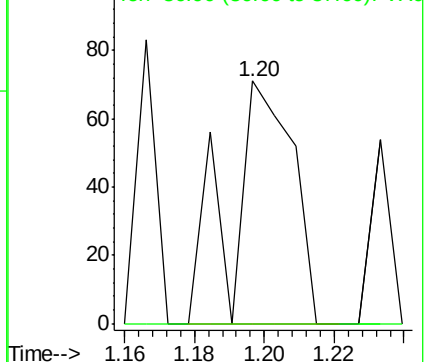
85 100

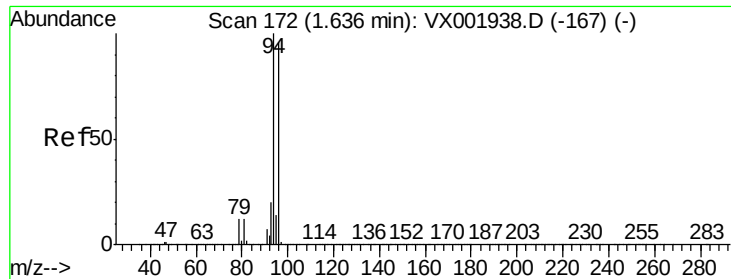
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Instrument :

MSVOA_X

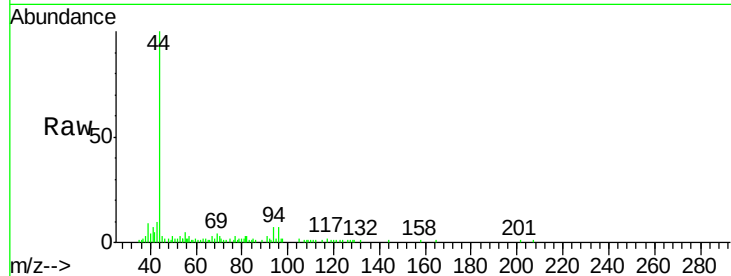
ClientSampled :

Tot Ion: 94 Resp: 922

Ion Ratio Lower Upper

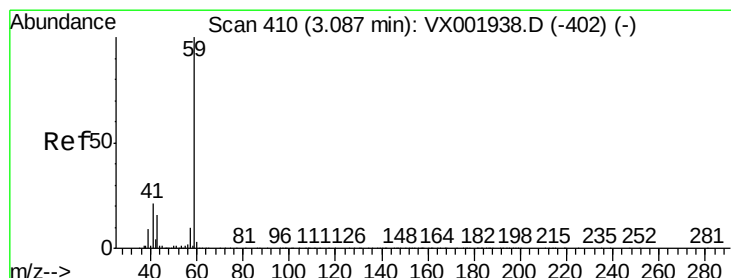
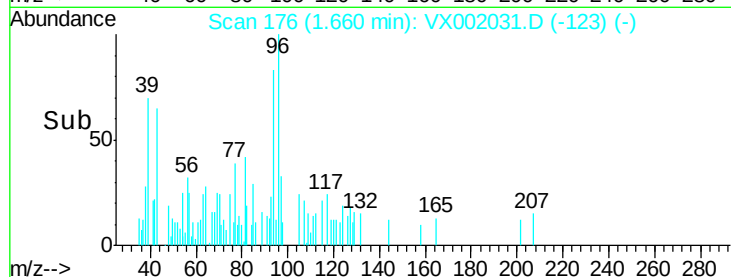
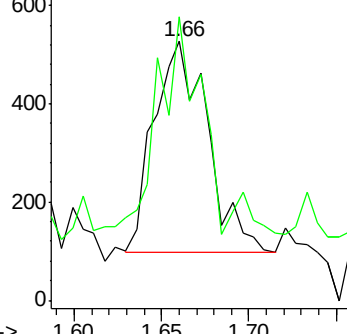
94 100

96 102.3 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 0.34 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX002031.D

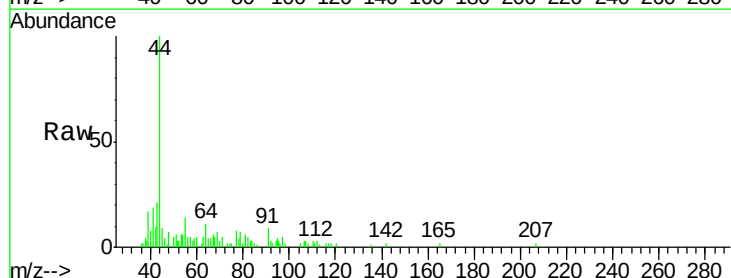
Acq: 26 May 2018 20:46

Tgt Ion: 59 Resp: 372

Ion Ratio Lower Upper

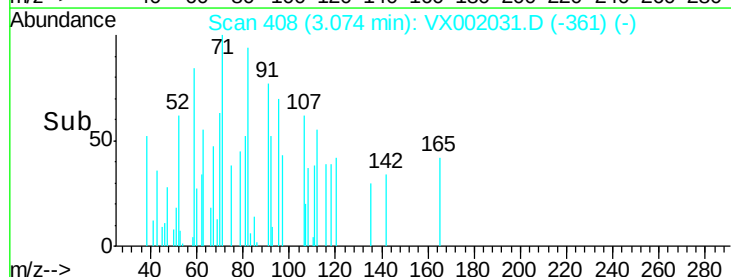
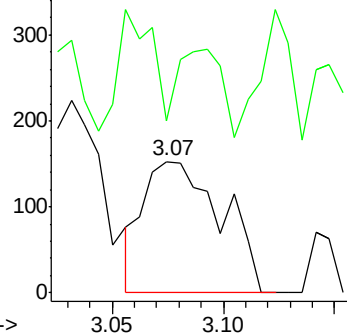
59 100

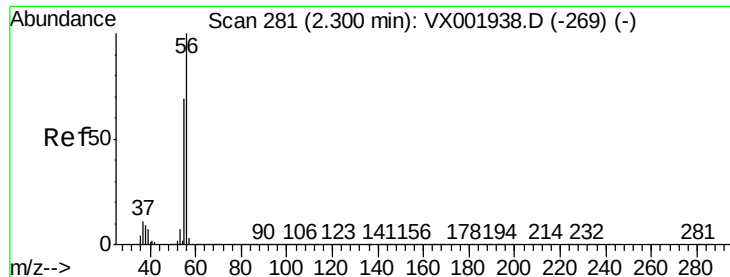
57 0.0 8.9 13.3#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.40 ug/l

RT: 2.32 min Scan# 285

Delta R.T. 0.02 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Instrument :

MSVOA_X

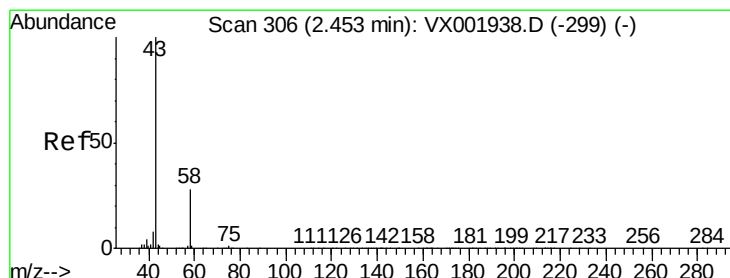
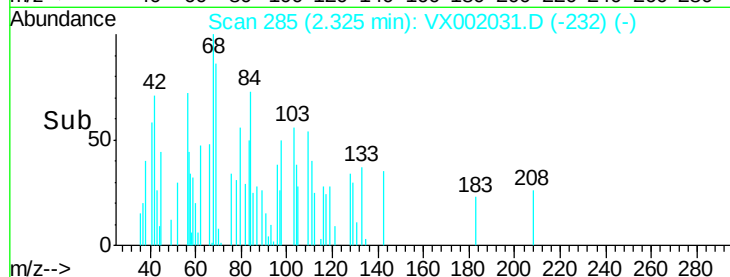
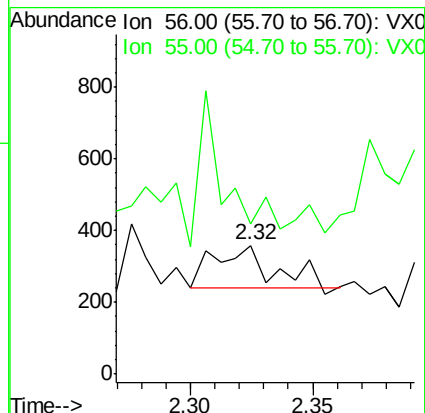
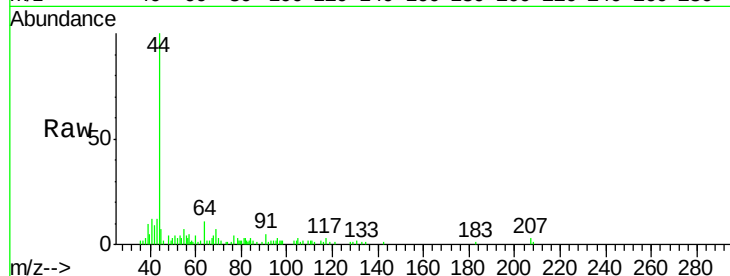
ClientSampleId :

Tot Ion: 56 Resp: 192

Ion Ratio Lower Upper

56 100

55 199.0 56.8 85.2#



#16

Acetone

Concen: 0.54 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002031.D

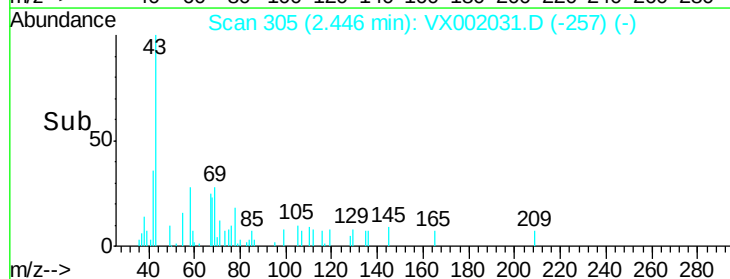
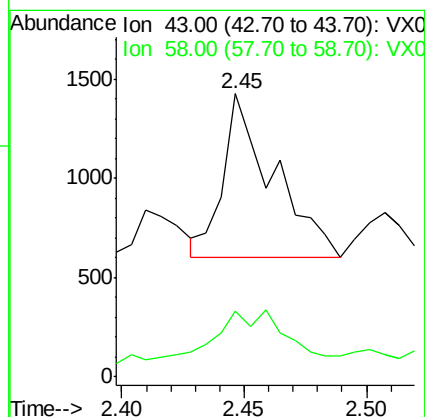
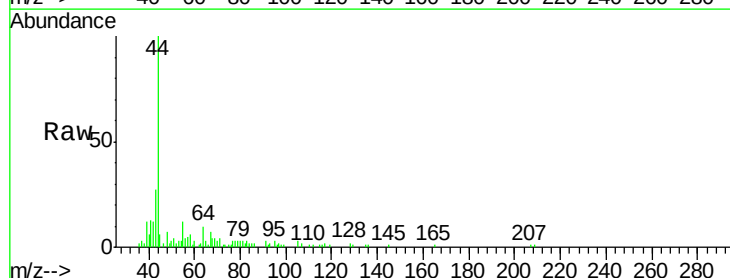
Acq: 26 May 2018 20:46

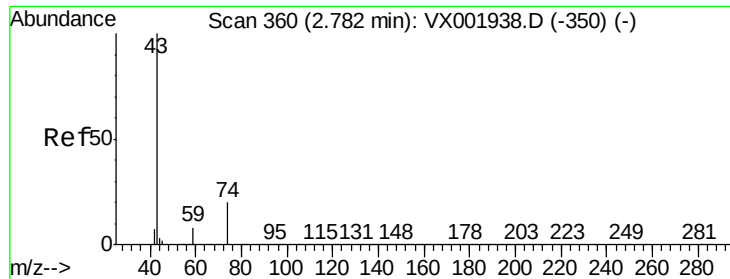
Tgt Ion: 43 Resp: 1173

Ion Ratio Lower Upper

43 100

58 27.4 22.3 33.5

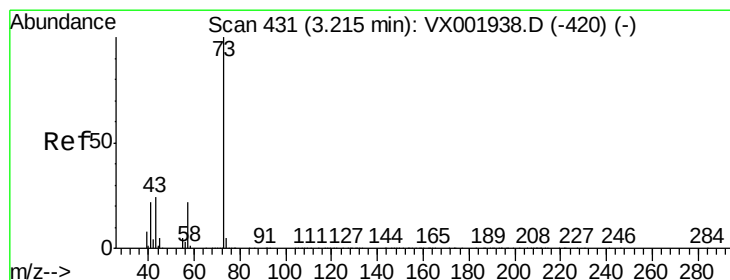
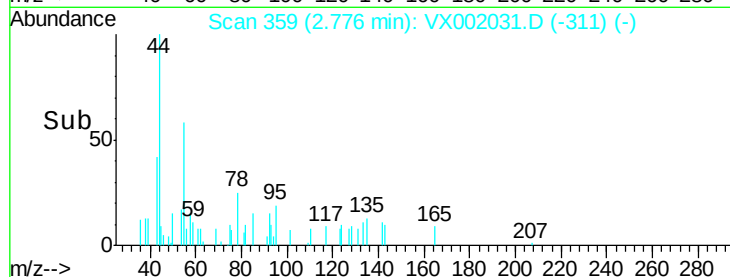
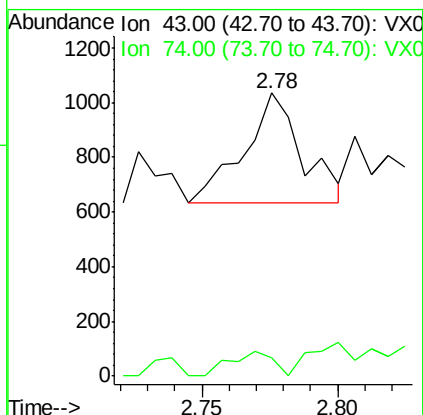
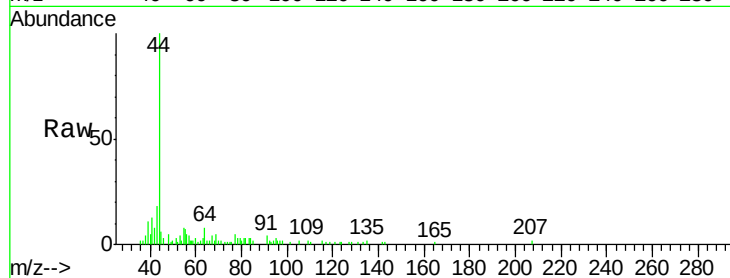




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002031.D
Acq: 26 May 2018 20:46

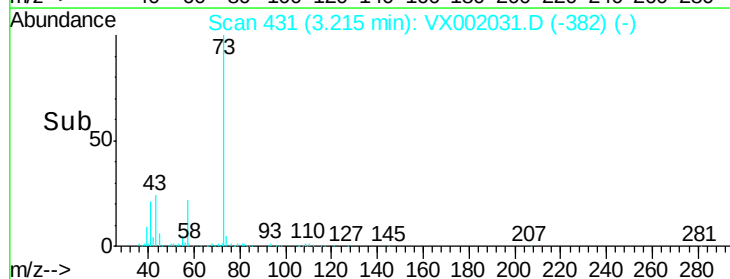
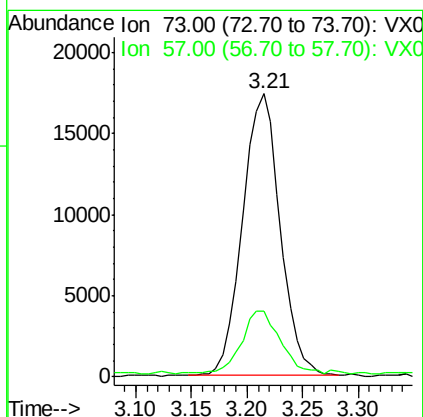
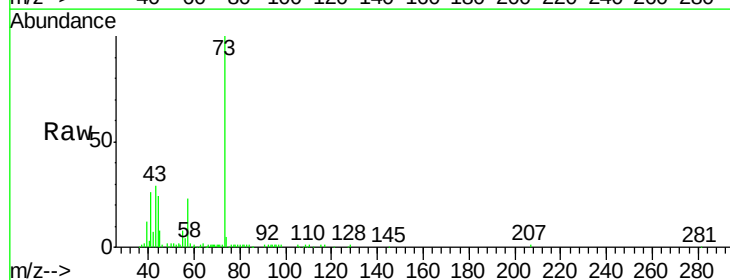
Instrument :
MSVOA_X
ClientSampleId :

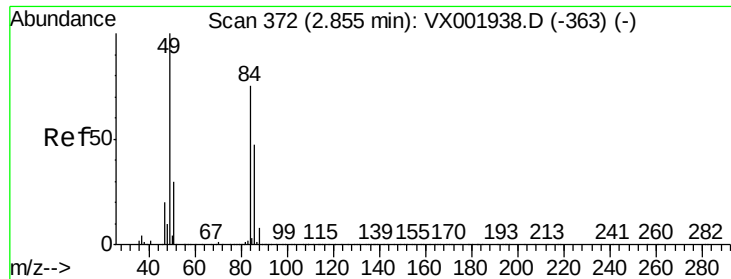
Tot Ion: 43 Resp: 597
Ion Ratio Lower Upper
43 100
74 16.6 16.8 25.2#



#19
Methyl tert-butyl Ether
Concen: 2.95 ug/l
RT: 3.21 min Scan# 431
Delta R.T. -0.00 min
Lab File: VX002031.D
Acq: 26 May 2018 20:46

Tgt Ion: 73 Resp: 40827
Ion Ratio Lower Upper
73 100
57 21.7 17.4 26.0

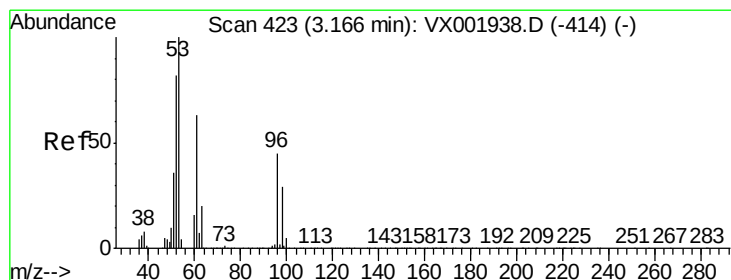
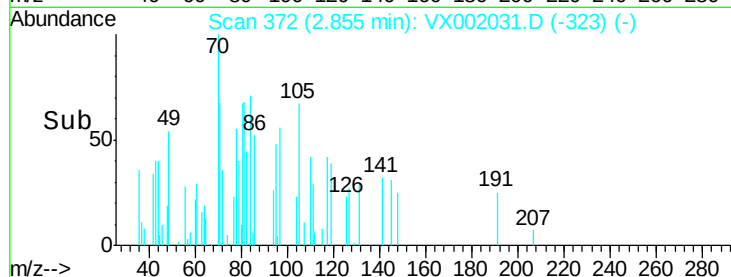
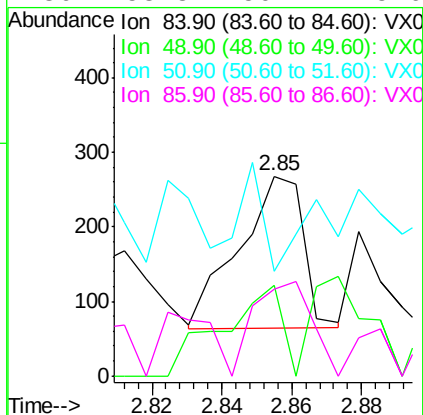
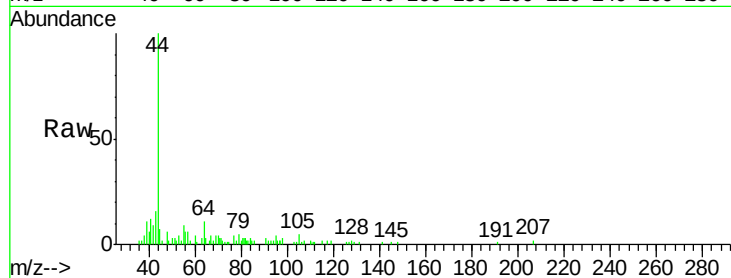




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX002031.D
Acq: 26 May 2018 20:46

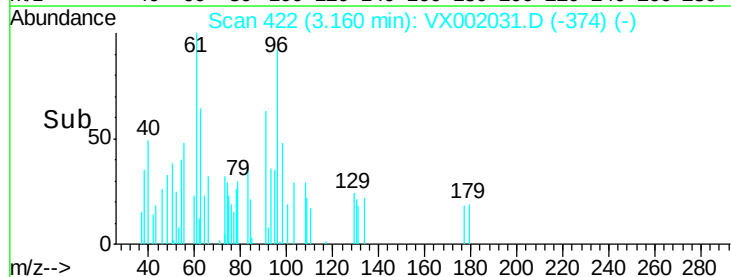
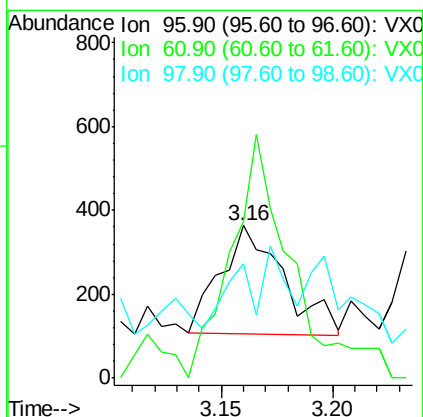
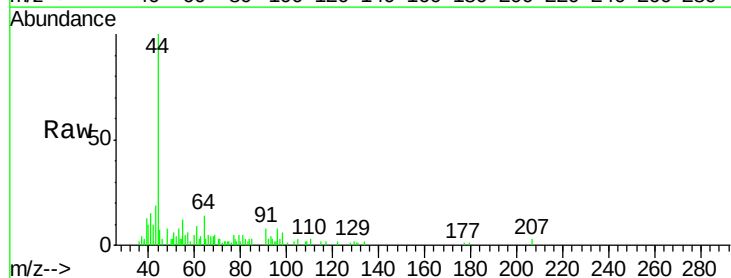
Instrument :
MSVOA_X
ClientSampled :

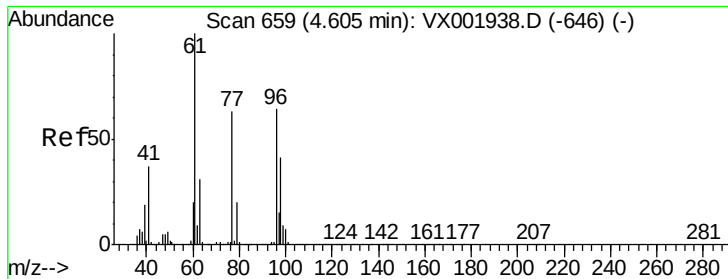
Tot Ion:	84	Resp:	258
Ion	Ratio	Lower	Upper
84	100		
49	32.2	107.2	160.8#
51	0.0	32.4	48.6#
86	58.8	50.4	75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.16 min Scan# 422
Delta R.T. -0.01 min
Lab File: VX002031.D
Acq: 26 May 2018 20:46

Tgt Ion:	96	Resp:	511
Ion	Ratio	Lower	Upper
96	100		
61	146.5	113.3	169.9
98	46.9	51.7	77.5#





#27

cis-1,2-Dichloroethene

Concen: 6.09 ug/l

RT: 4.60 min Scan# 659

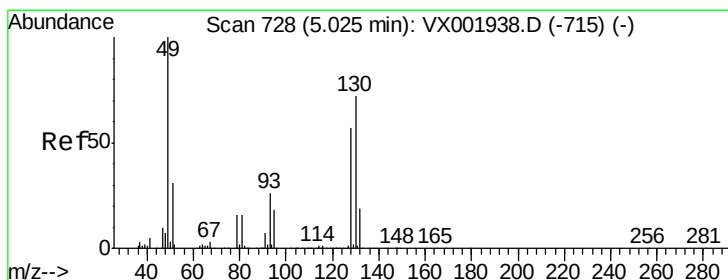
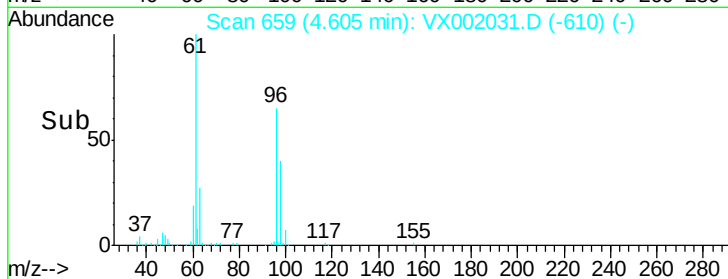
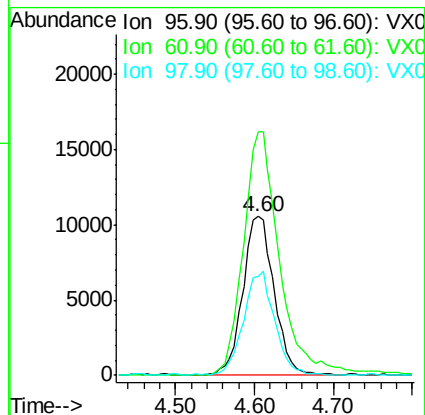
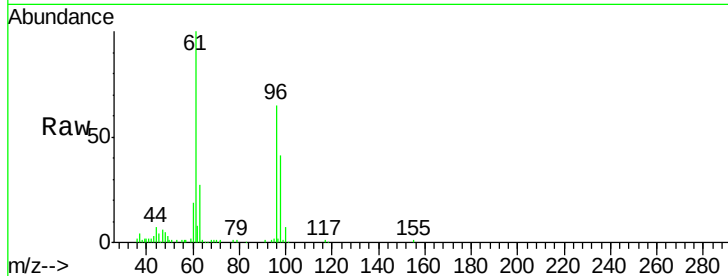
Delta R.T. -0.00 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	96	Resp:	29204
Ion	Ratio	Lower	Upper
96	100		
61	179.3	0.0	348.4
98	65.1	0.0	128.6



#28

Bromochloromethane

Concen: Below Cal

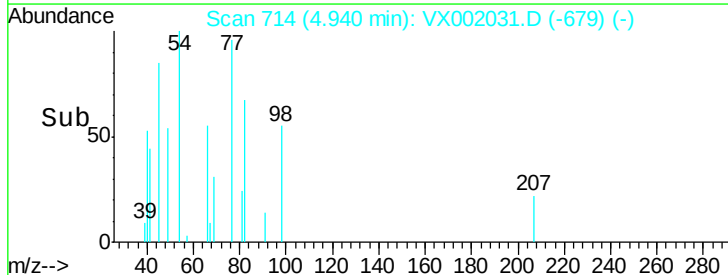
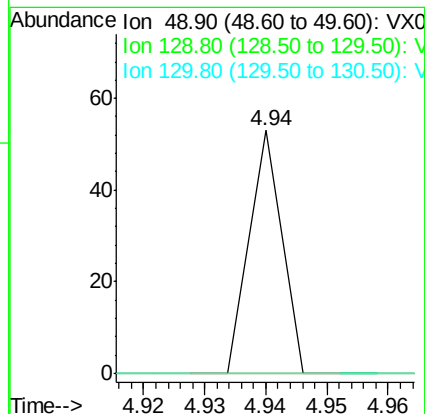
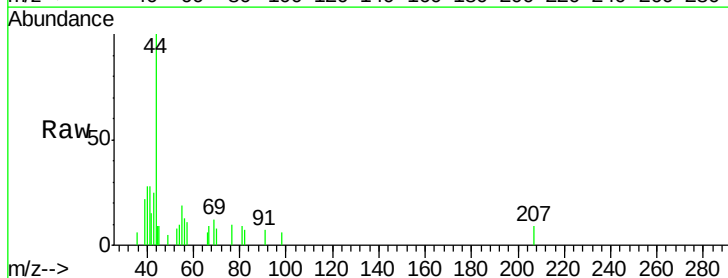
RT: 4.94 min Scan# 714

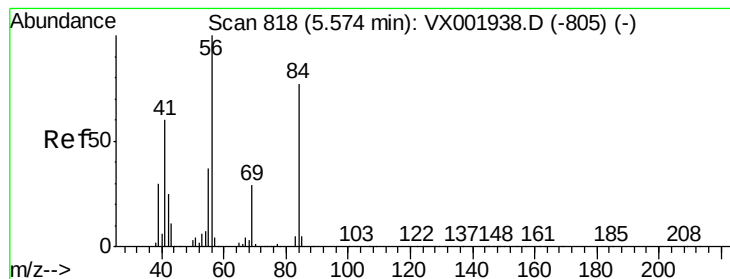
Delta R.T. -0.09 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Tgt Ion:	49	Resp:	19
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#





#31

Cyclohexane

Concen: 0.84 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.10 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Instrument :
MSVOA_X
ClientSampled :

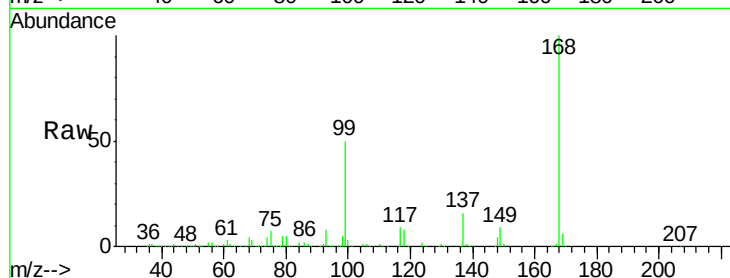
Tot Ion: 56 Resp: 6497

Ion Ratio Lower Upper

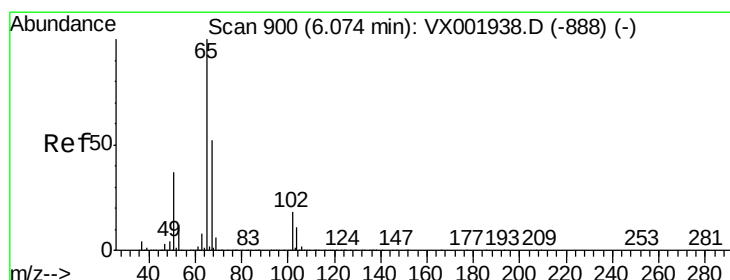
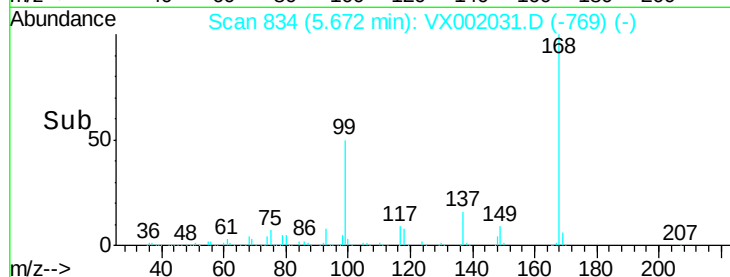
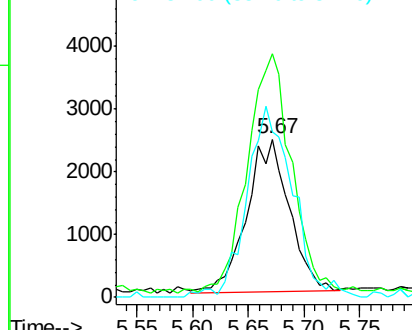
56 100

69 155.4 23.1 34.7#

84 105.5 62.0 93.0#



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: 47.09 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002031.D

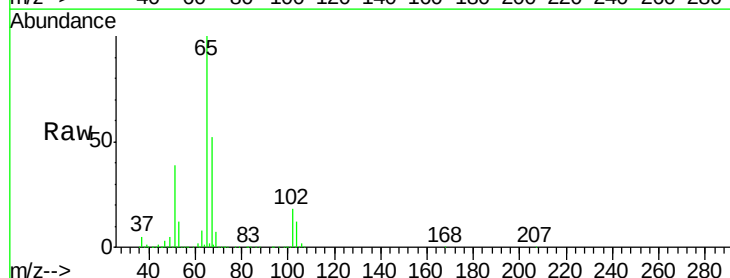
Acq: 26 May 2018 20:46

Tgt Ion: 65 Resp: 265509

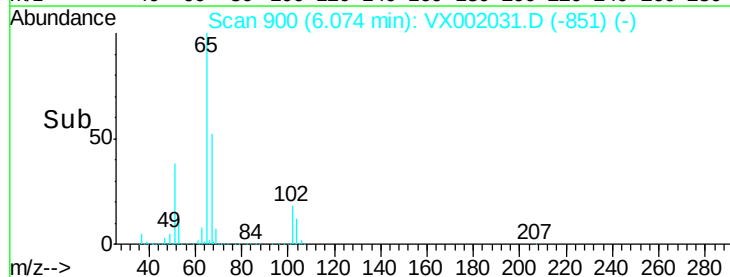
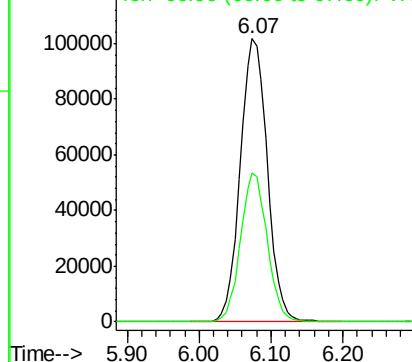
Ion Ratio Lower Upper

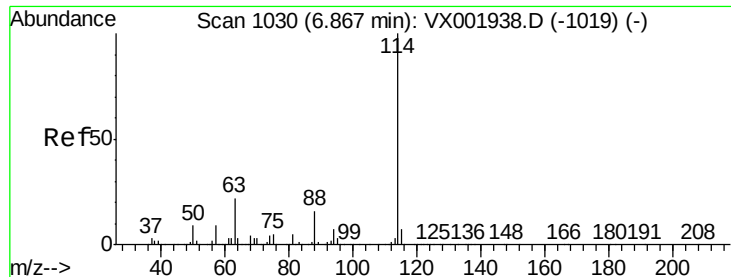
65 100

67 51.8 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Instrument :

MSVOA_X

ClientSampleId :

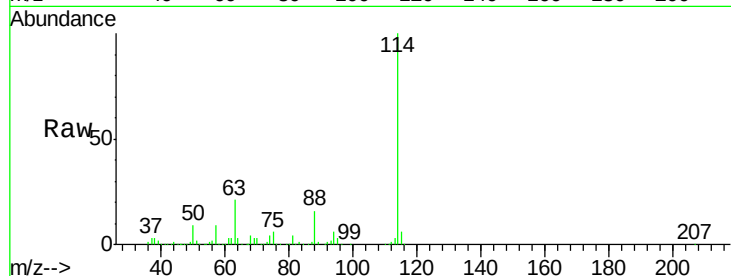
Tot Ion:114 Resp: 440619

Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.2

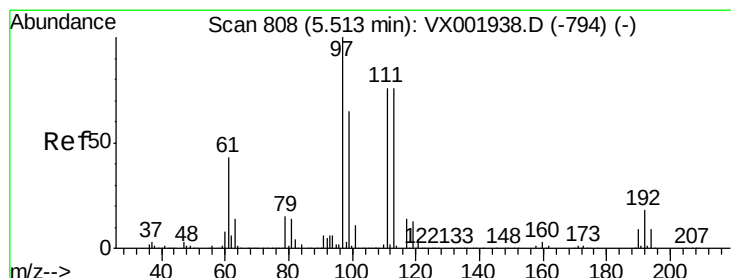
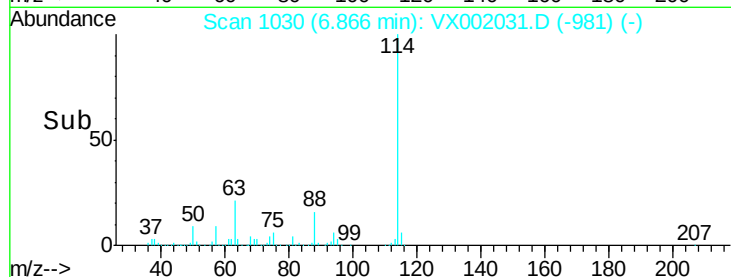
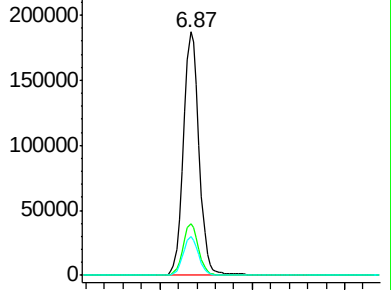
88 15.9 0.0 31.6



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: 46.78 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

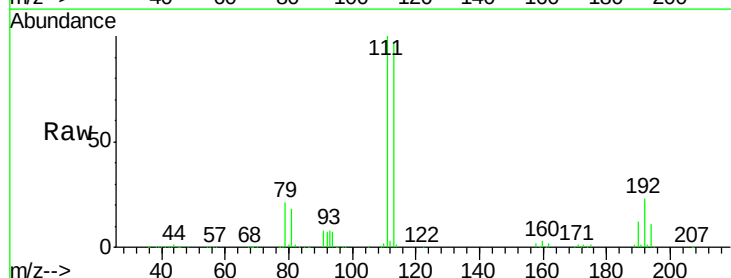
Tgt Ion:113 Resp: 206134

Ion Ratio Lower Upper

113 100

111 102.4 82.0 123.0

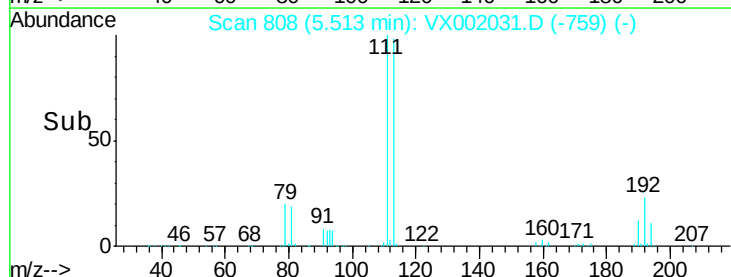
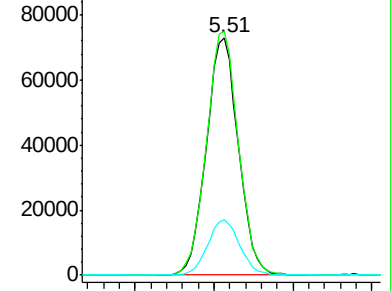
192 23.2 18.9 28.3

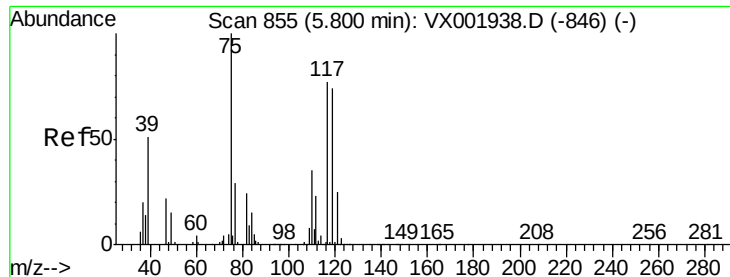


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

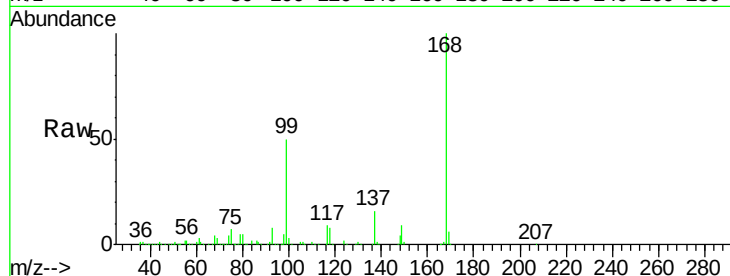




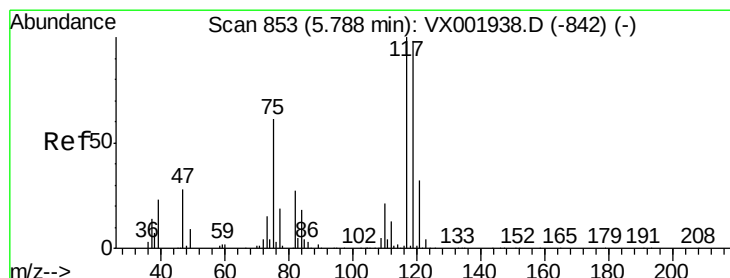
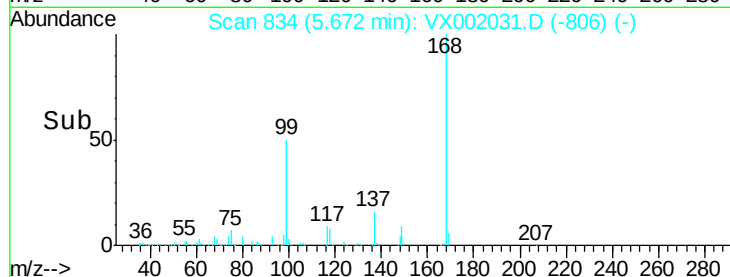
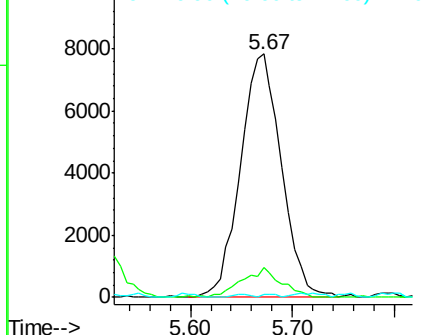
#36
 1,1-Dichloropropene
 Concen: 3.56 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002031.D
 Acq: 26 May 2018 20:46

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	11.6	17.4	52.2#
77	0.5	24.4	36.6#

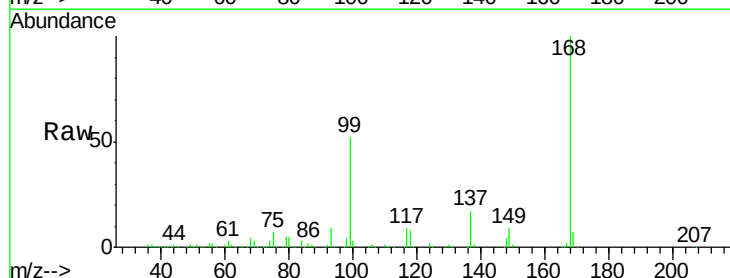


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

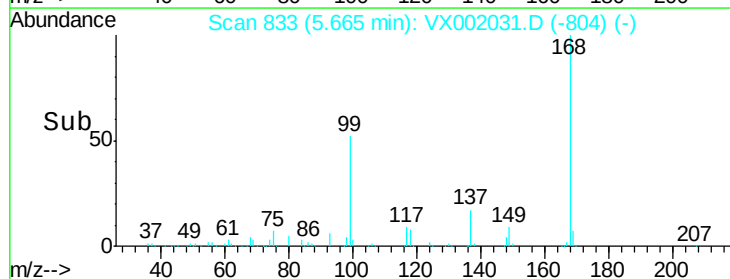
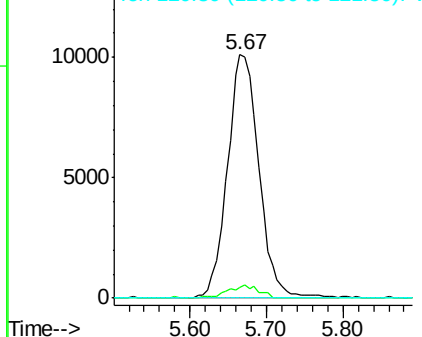


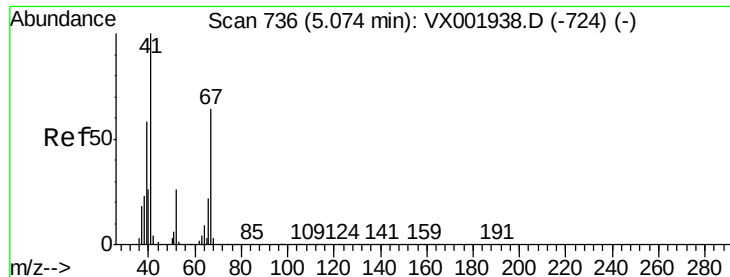
#38
 Carbon Tetrachloride
 Concen: 4.03 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002031.D
 Acq: 26 May 2018 20:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	78.5	117.7#
121	0.0	25.5	38.3#



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





#41

Methacrylonitrile

Concen: Below Cal

RT: 5.09 min Scan# 739

Delta R.T. 0.02 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 41 Resp: 172

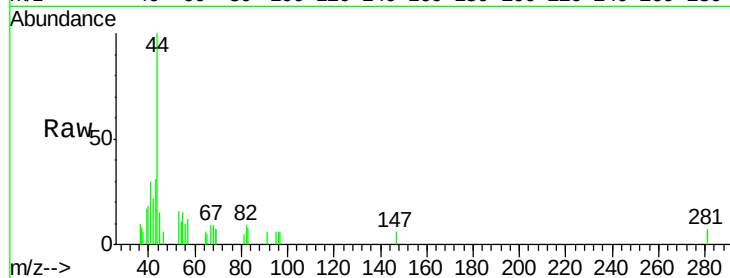
Ion Ratio Lower Upper

41 100

39 0.0 46.0 69.0#

67 0.0 50.6 75.8#

52 11.6 21.9 32.9#

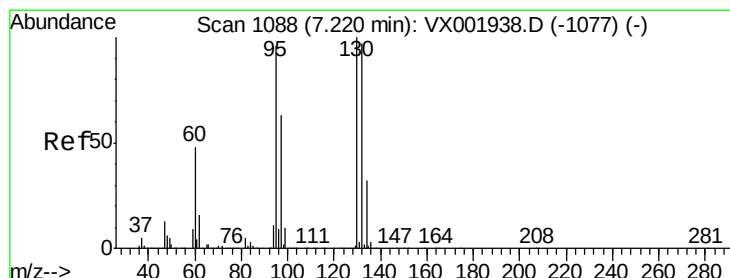
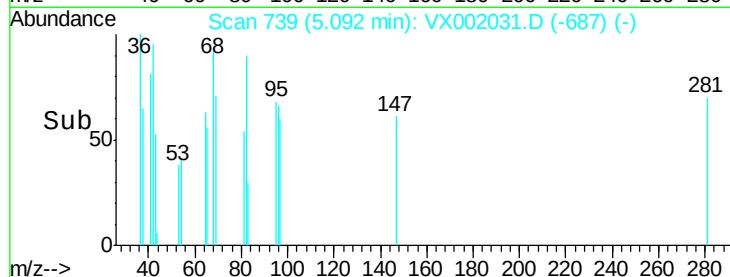
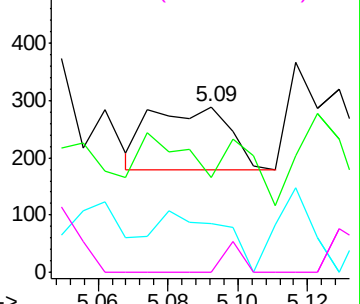


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#44

Trichloroethene

Concen: 3.90 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX002031.D

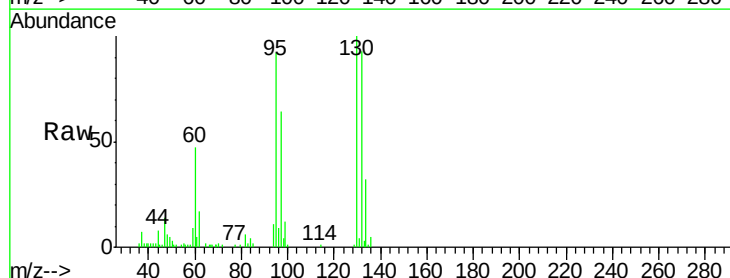
Acq: 26 May 2018 20:46

Tgt Ion: 130 Resp: 20426

Ion Ratio Lower Upper

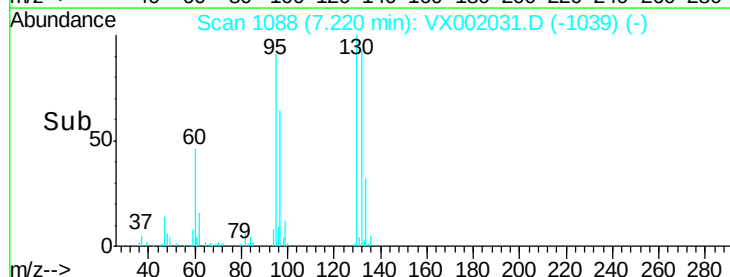
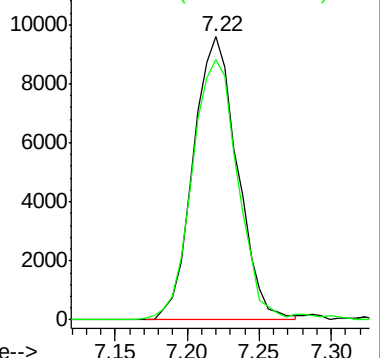
130 100

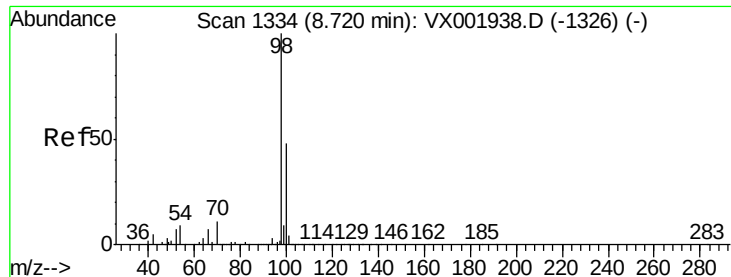
95 91.2 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

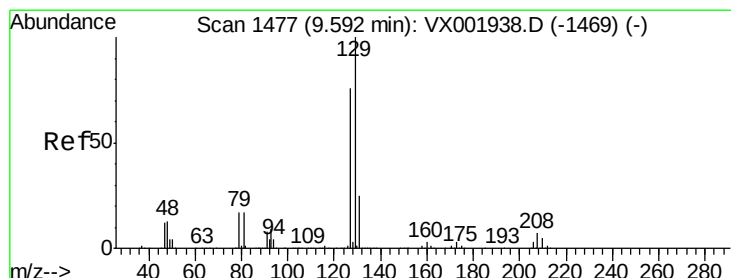
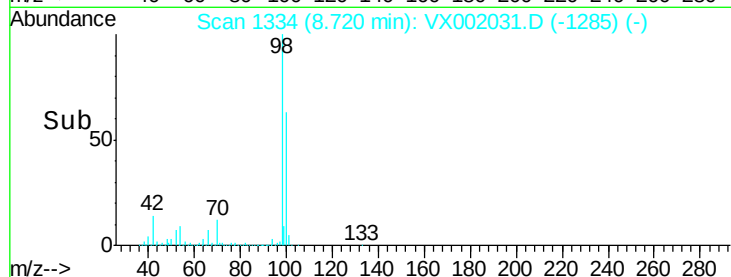
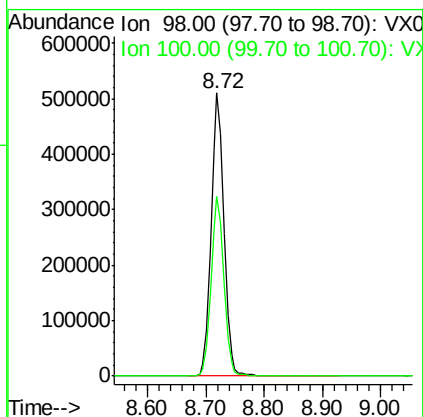
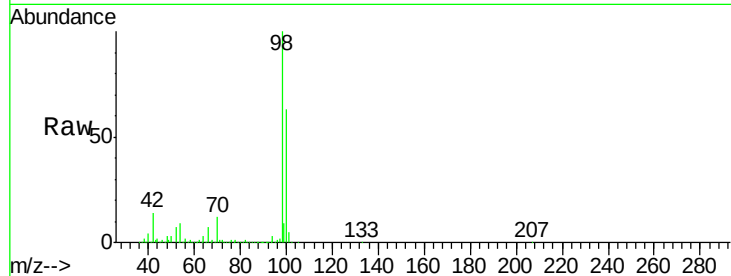




#50
Toluene-d8
Concen: 48.83 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002031.D
Acq: 26 May 2018 20:46

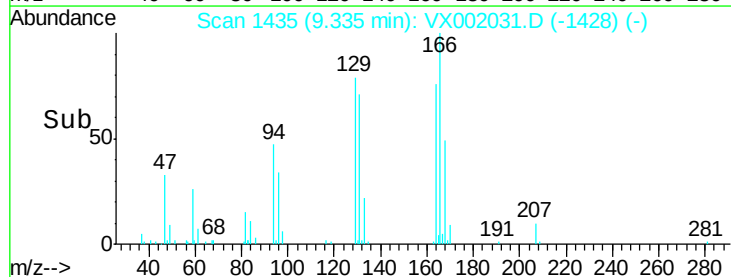
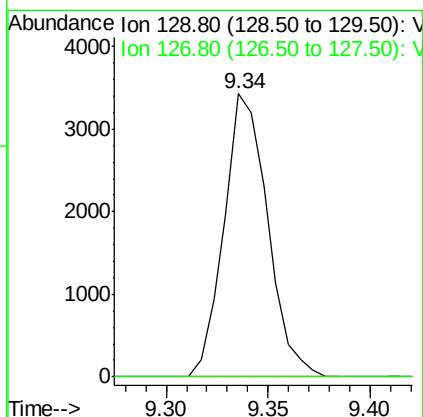
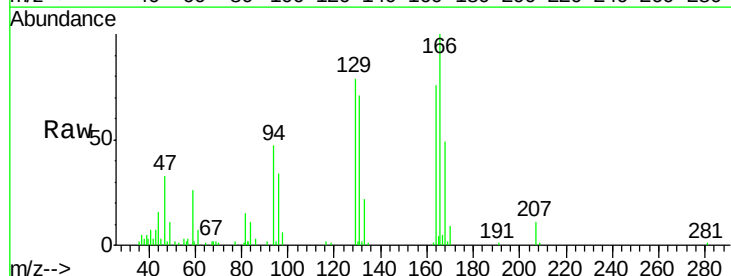
Instrument :
MSVOA_X
ClientSampleId :

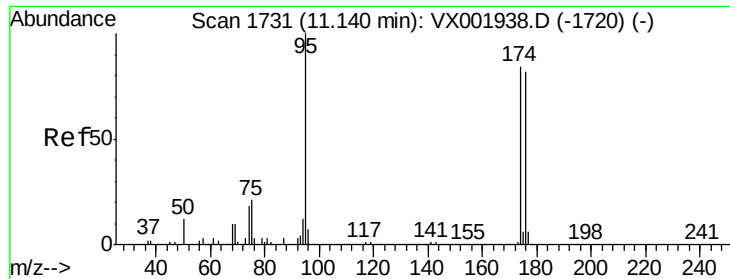
Tot Ion: 98 Resp: 778865
Ion Ratio Lower Upper
98 100
100 63.6 51.5 77.3



#60
Dibromochloromethane
Concen: 0.90 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.26 min
Lab File: VX002031.D
Acq: 26 May 2018 20:46

Tgt Ion: 129 Resp: 5078
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#





#62

4-Bromofluorobenzene

Concen: 43.75 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Instrument :

MSVOA_X

ClientSampled :

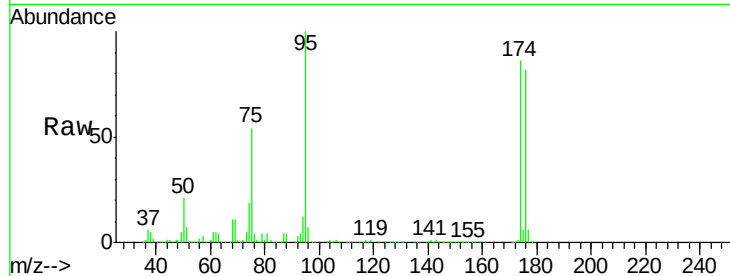
Tot Ion: 95 Resp: 273073

Ion Ratio Lower Upper

95 100

174 91.7 0.0 178.8

176 88.7 0.0 175.6

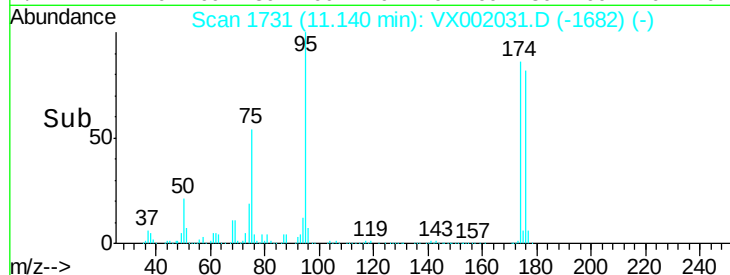


Abundance Ion 94.90 (94.60 to 95.60): VX001938.D (-1720) (-)

Ion 173.80 (173.50 to 174.50): VX001938.D (-1720) (-)

Ion 175.80 (175.50 to 176.50): VX001938.D (-1720) (-)

Time-->

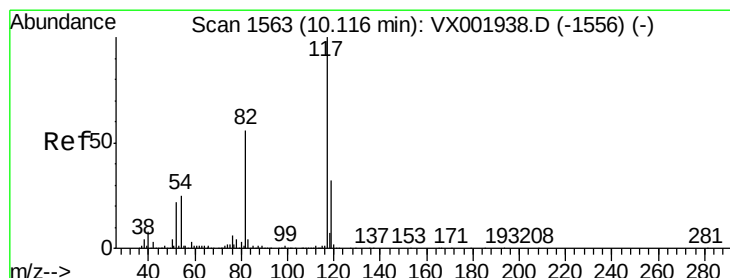


Abundance Ion 94.90 (94.60 to 95.60): VX002031.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002031.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002031.D (-1682) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

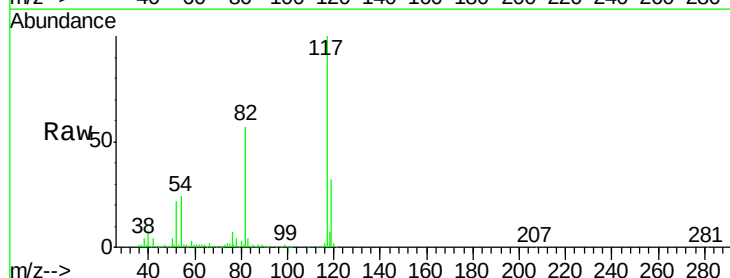
Tgt Ion: 117 Resp: 387053

Ion Ratio Lower Upper

117 100

82 57.5 44.8 67.2

119 31.8 25.5 38.3

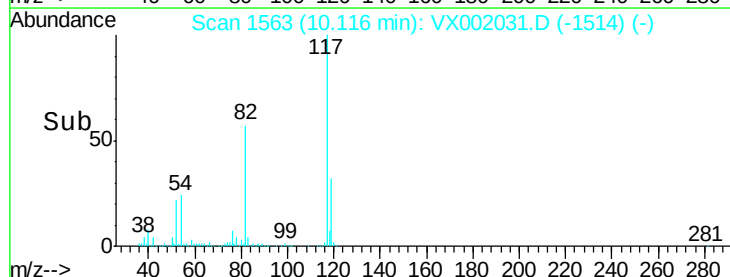


Abundance Ion 116.90 (116.60 to 117.60): VX001938.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX001938.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX001938.D (-1556) (-)

Time-->

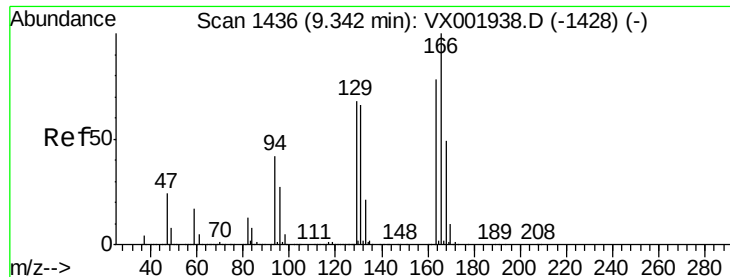


Abundance Ion 116.90 (116.60 to 117.60): VX002031.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002031.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002031.D (-1514) (-)

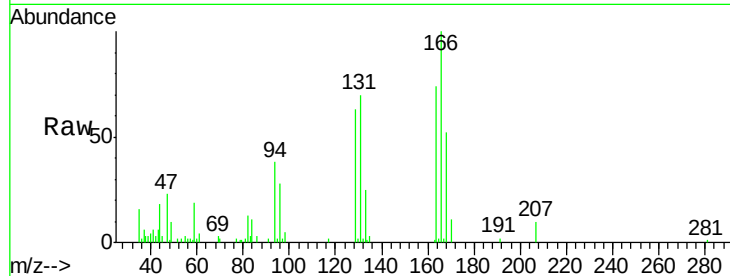
Time-->



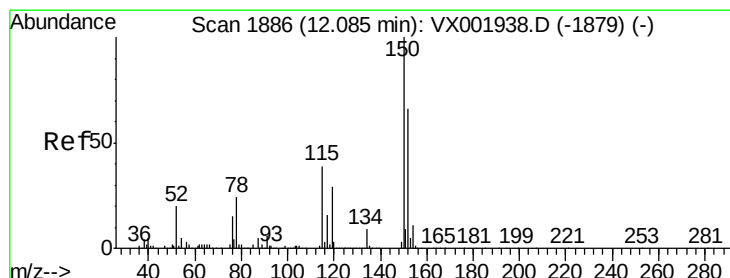
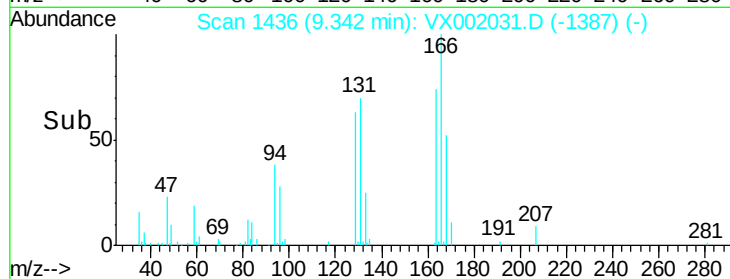
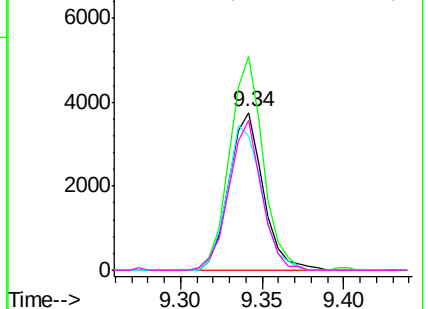
#64
Tetrachloroethene
Concen: 0.99 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX002031.D
Acq: 26 May 2018 20:46

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
166	135.6	102.7	154.1
129	85.3	70.3	105.5
131	94.9	68.2	102.4

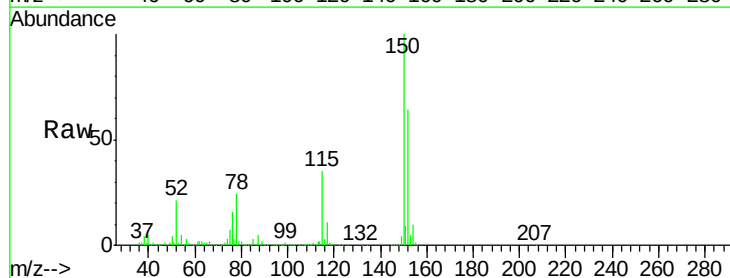


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

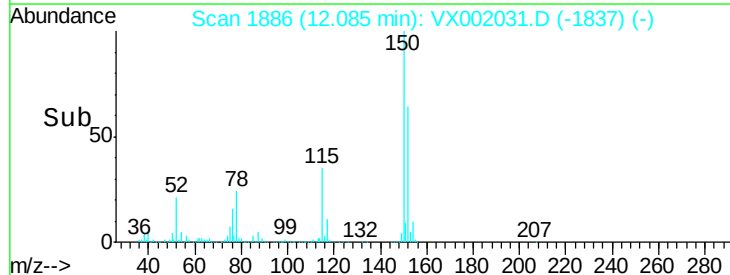
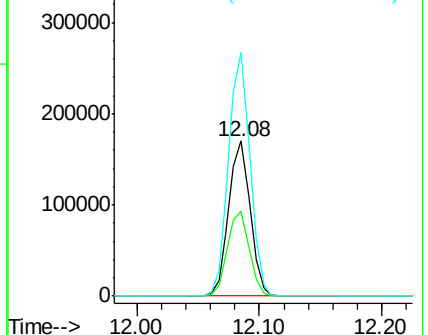


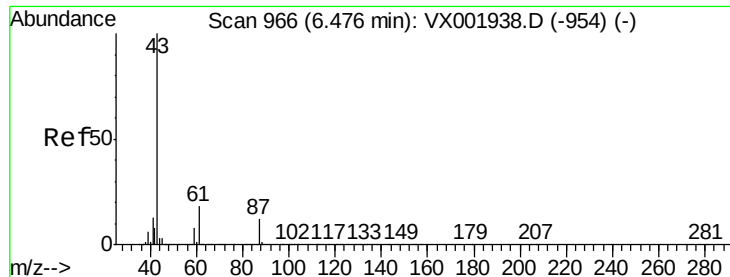
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002031.D
Acq: 26 May 2018 20:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.7	42.3	126.8
150	156.2	0.0	351.0



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





#74

N-amvl acetate

Concen: Below Cal

RT: 6.46 min Scan# 963

Delta R.T. -0.02 min

Lab File: VX002031.D

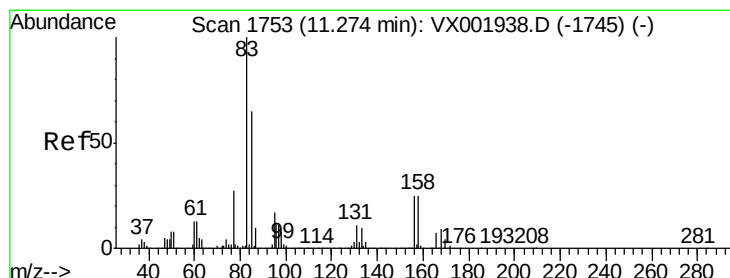
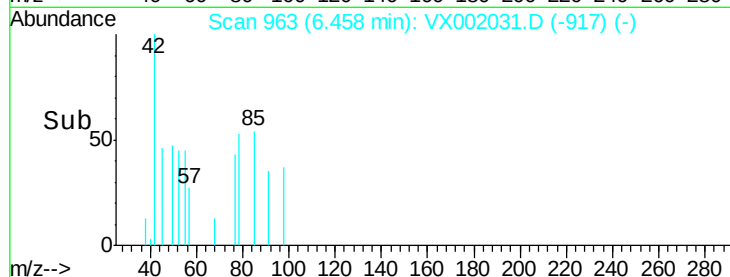
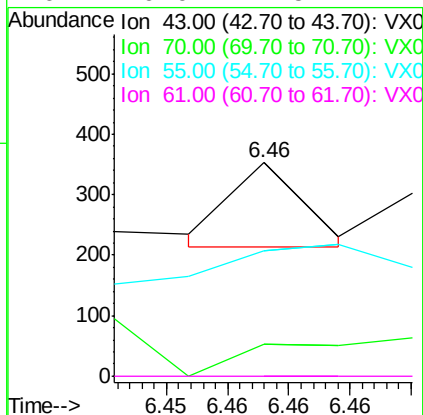
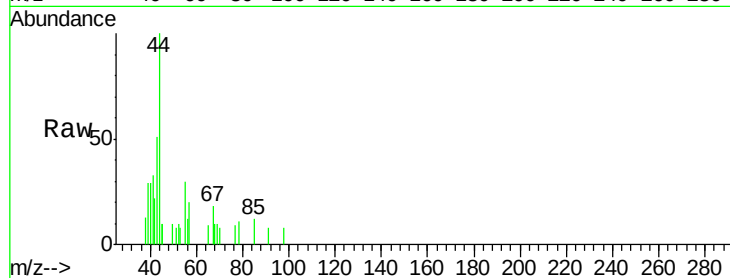
Acq: 26 May 2018 20:46

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	43	Resp:	57
Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.1	0.1#
55	294.7	0.1	0.1#
61	0.0	14.5	21.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

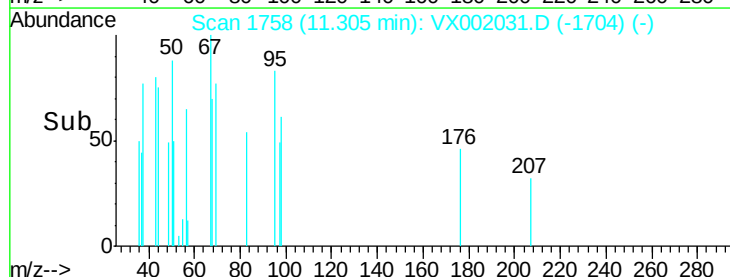
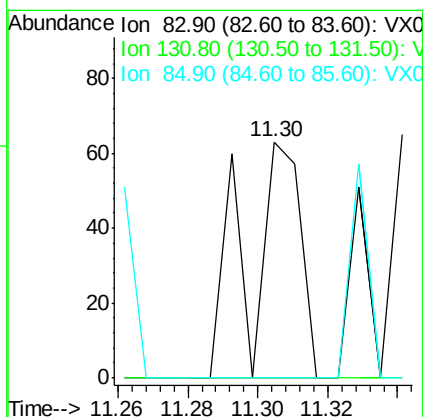
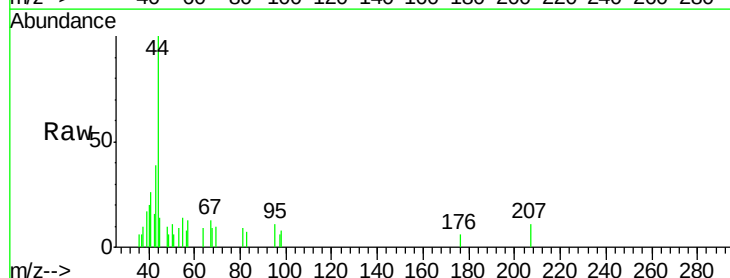
RT: 11.30 min Scan# 1758

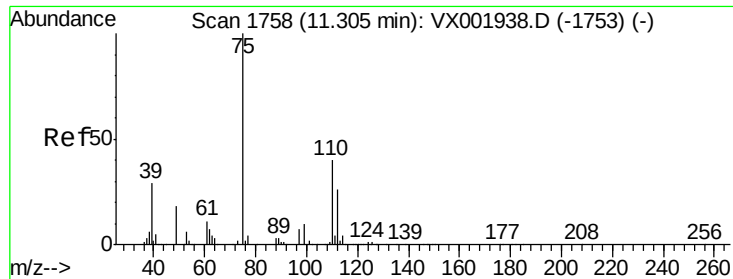
Delta R.T. 0.03 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Tgt Ion:	83	Resp:	66
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.7	17.0#
85	0.0	32.6	97.7#

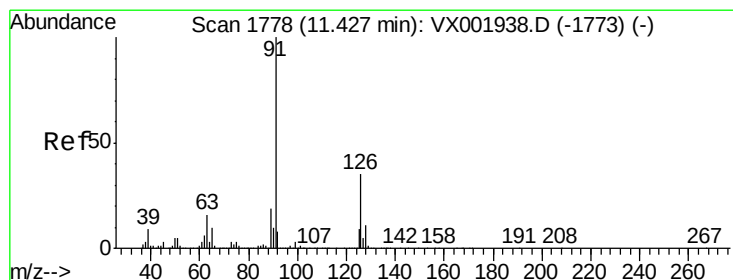
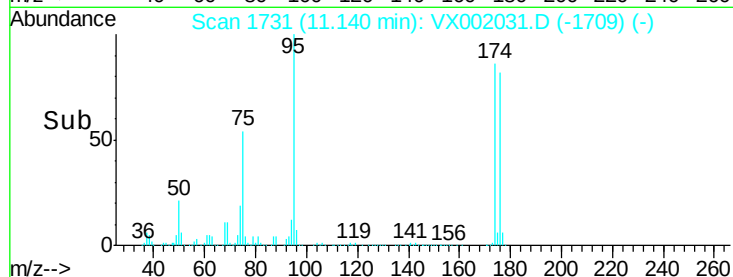
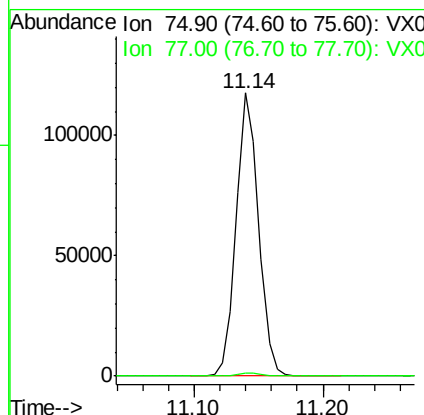
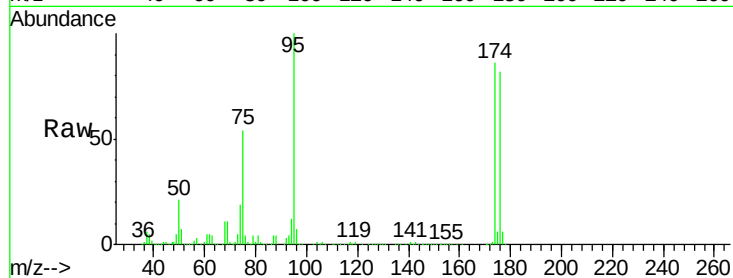




#76
 1,2,3-Trichloropropane
 Concen: 28.85 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002031.D
 Acq: 26 May 2018 20:46

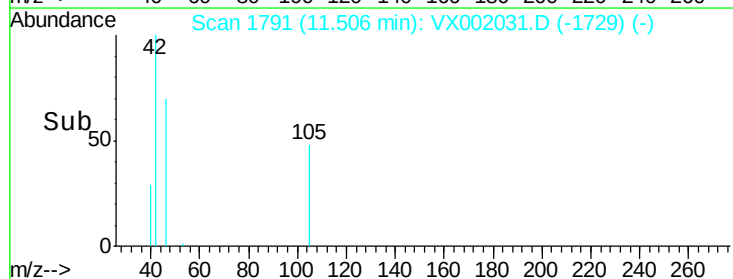
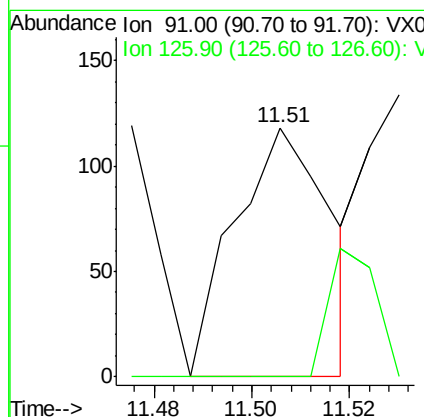
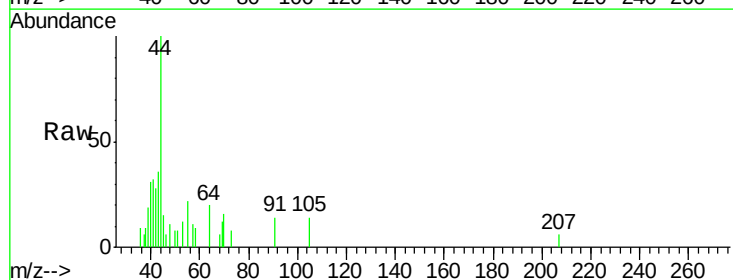
Instrument :
 MSVOA_X
 ClientSampleId :

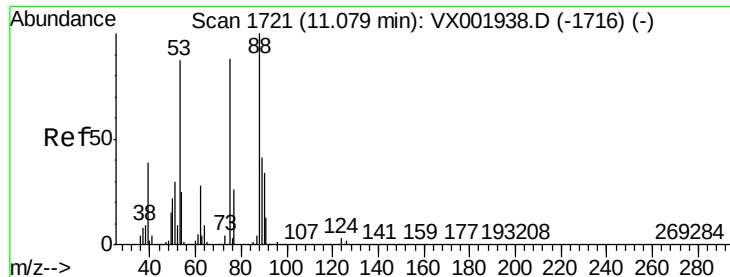
Tot Ion: 75 Resp: 143354
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.51 min Scan# 1791
 Delta R.T. 0.08 min
 Lab File: VX002031.D
 Acq: 26 May 2018 20:46

Tgt Ion: 91 Resp: 158
 Ion Ratio Lower Upper
 91 100
 126 25.9 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 69.34 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002031.D

Acq: 26 May 2018 20:46

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 143354

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#

