

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090419\
 Data File : VX012045.D
 Acq On : 04 Sep 2019 12:04
 Operator : SY/SP
 Sample : K4646-01
 Misc : 5.93g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S602A-M-1.0-1.5-083019

Quant Time: Sep 04 12:27:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X090319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 03 15:26:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	173206	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	304197	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	269793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	118884	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	114991	48.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.24%	
35) Dibromofluoromethane	5.48	113	89673	47.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.86%	
50) Toluene-d8	8.71	98	359578	52.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.76%	
62) 4-Bromofluorobenzene	11.14	95	145364	45.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.06%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.51	142	305	7.135	ug/l #	77
11) Tert butyl alcohol	3.01	59	14486	63.106	ug/l #	84
13) Acrolein	2.30	56	175	Below Cal		87
16) Acetone	2.43	43	14270	24.981	ug/l	94
20) Methylene Chloride	2.84	84	11687	5.095	ug/l	91
25) 2-Butanone	4.67	43	4784	6.579	ug/l #	82
26) 2,2-Dichloropropane	4.67	77	3956	1.175	ug/l #	53
29) Tetrahydrofuran	5.12	42	808	1.844	ug/l #	32
31) Cyclohexane	5.64	56	5228	1.784	ug/l #	6
36) 1,1-Dichloropropene	5.65	75	15416	5.754	ug/l #	49
37) Ethyl Acetate	4.67	43	4784	3.284	ug/l #	38
38) Carbon Tetrachloride	5.65	117	20155	7.139	ug/l #	14
76) 1,2,3-Trichloropropane	11.13	75	76478	52.650	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.13	75	76478	124.472	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

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MSVOA_X

ClientSampleId :

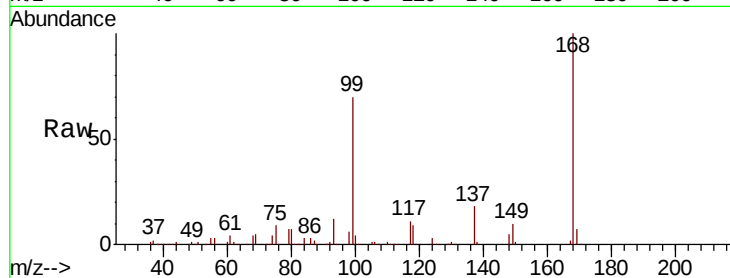
S602A-M-1.0-1.5-083019

Tgt Ion:168 Resp: 173206

Ion Ratio Lower Upper

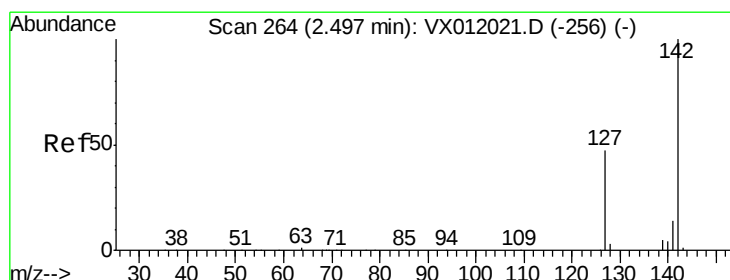
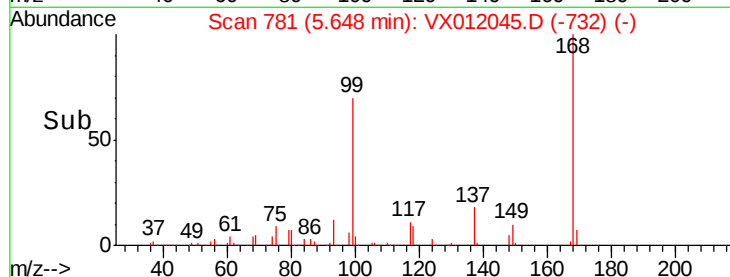
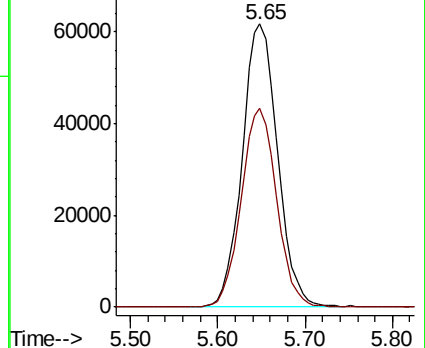
168 100

99 70.3 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#10

Methyl Iodide

Concen: 7.135 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012045.D

Acq: 04 Sep 2019 12:04

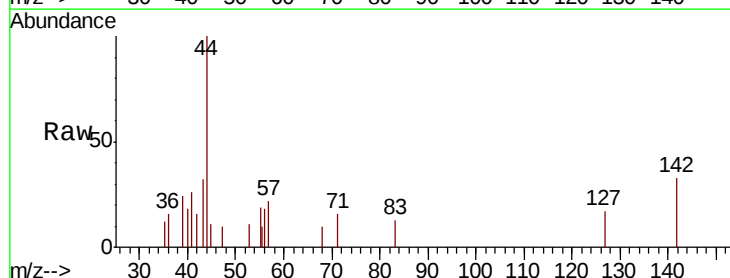
Tgt Ion:142 Resp: 305

Ion Ratio Lower Upper

142 100

127 28.9 35.4 53.2#

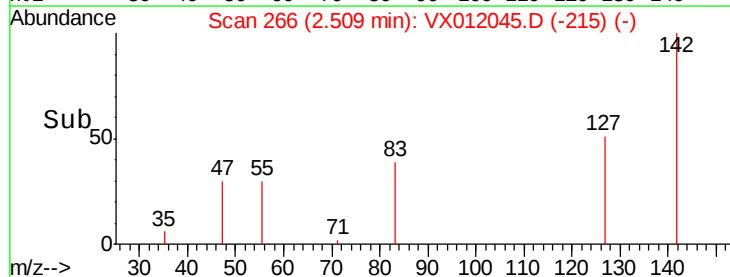
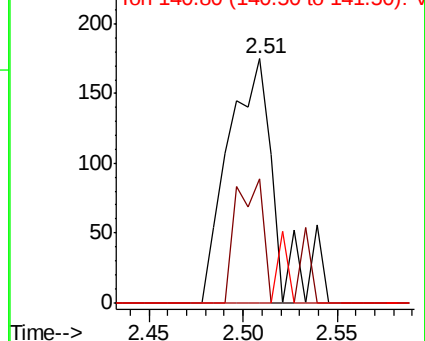
141 6.2 11.4 17.2#

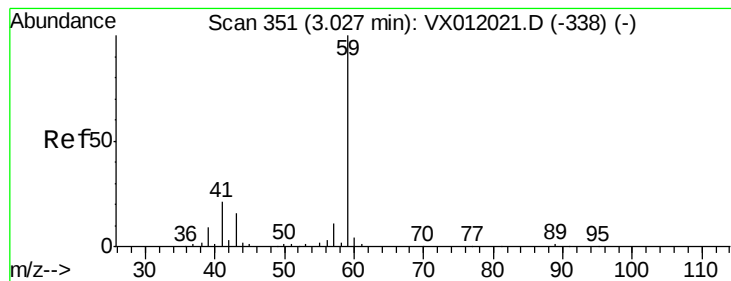


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



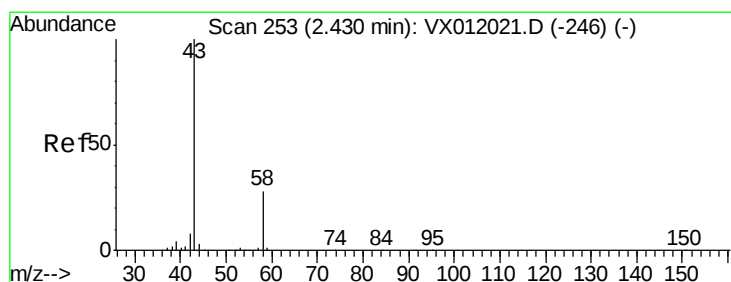
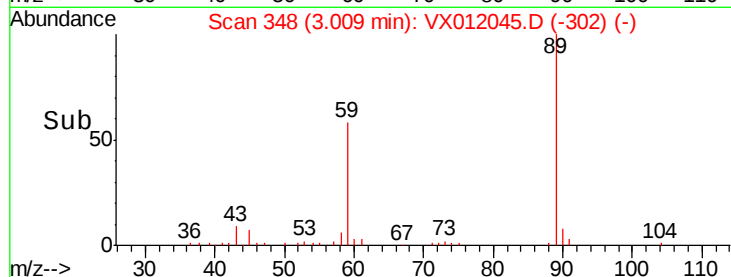
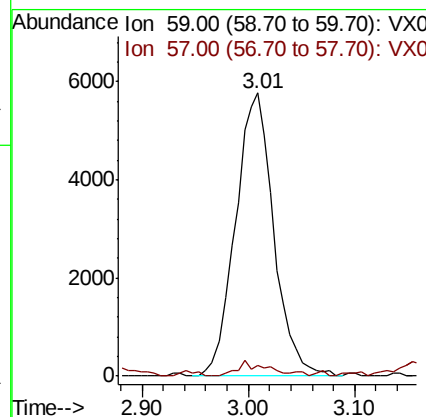
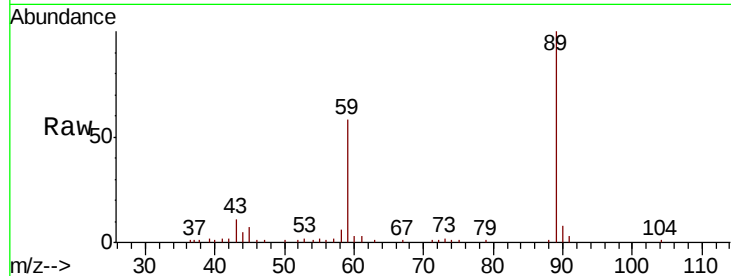


#11

Tert butyl alcohol
 Concen: 63.106 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.02 min
 Lab File: VX012045.D
 Acq: 04 Sep 2019 12:04

Instrument :
 MSVOA_X
 ClientSampleId :
 S602A-M-1.0-1.5-083019

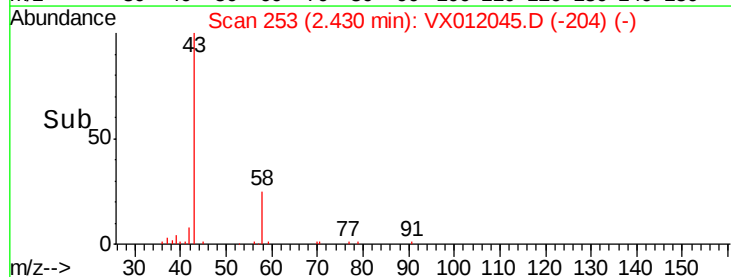
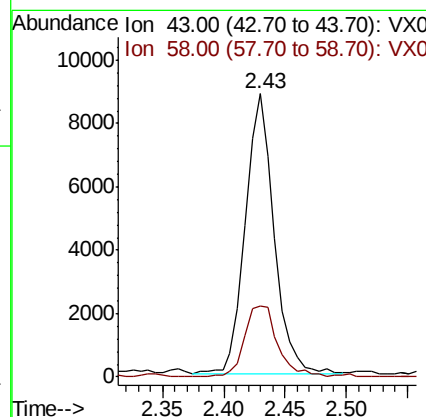
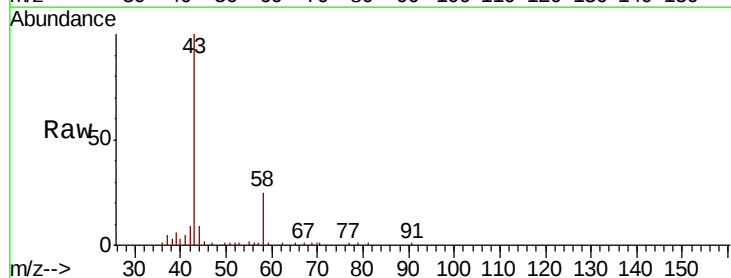
Tgt Ion: 59 Resp: 14486
 Ion Ratio Lower Upper
 59 100
 57 3.8 7.9 11.9#

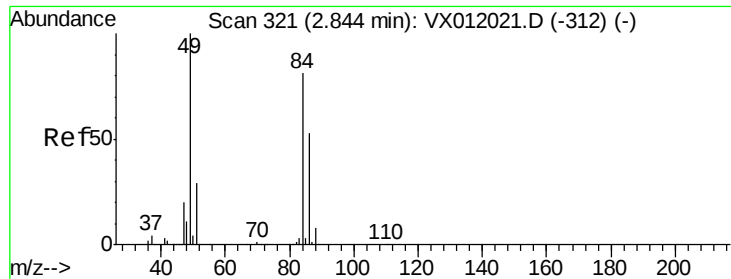


#16

Acetone
 Concen: 24.981 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VX012045.D
 Acq: 04 Sep 2019 12:04

Tgt Ion: 43 Resp: 14270
 Ion Ratio Lower Upper
 43 100
 58 25.3 22.8 34.2

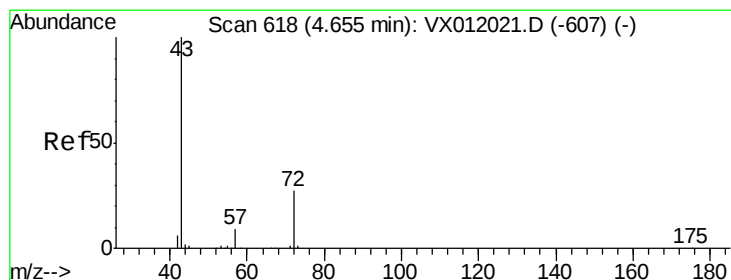
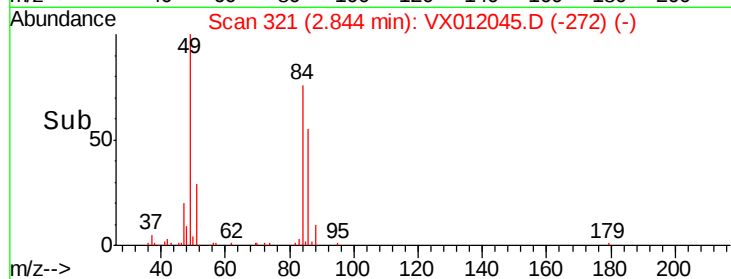
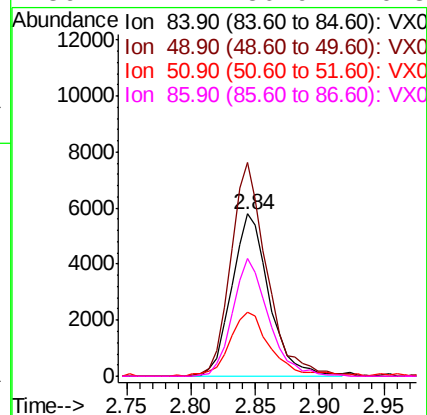
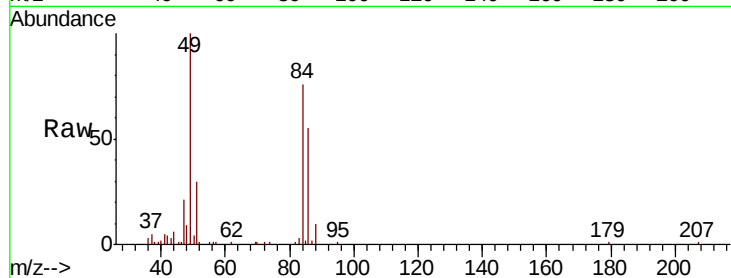




#20
Methylene Chloride
Concen: 5.095 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX012045.D
Acq: 04 Sep 2019 12:04

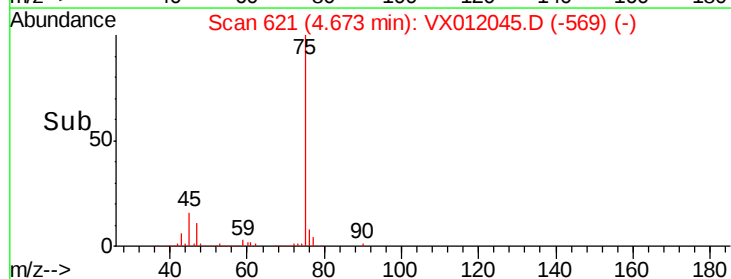
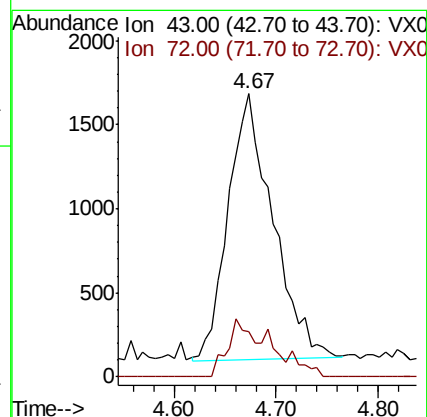
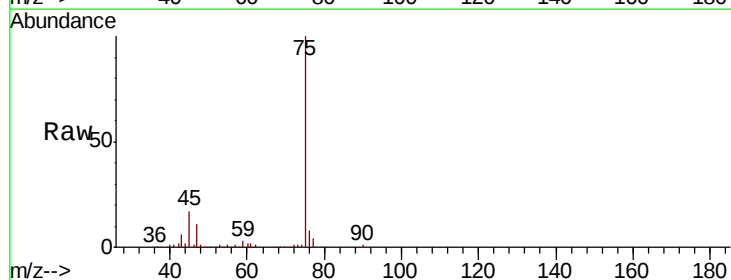
Instrument :
MSVOA_X
ClientSampleId :
S602A-M-1.0-1.5-083019

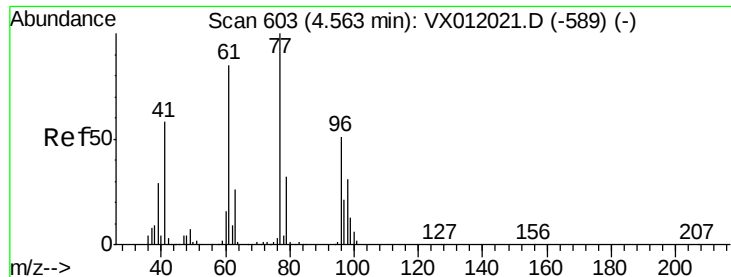
Tgt Ion:	84	Resp:	11687
Ion	Ratio	Lower	Upper
84	100		
49	130.9	95.8	143.8
51	38.5	28.6	43.0
86	72.4	50.9	76.3



#25
2-Butanone
Concen: 6.579 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX012045.D
Acq: 04 Sep 2019 12:04

Tgt Ion:	43	Resp:	4784
Ion	Ratio	Lower	Upper
43	100		
72	17.1	21.3	31.9#

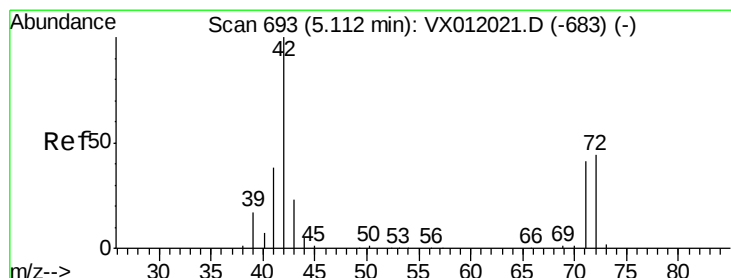
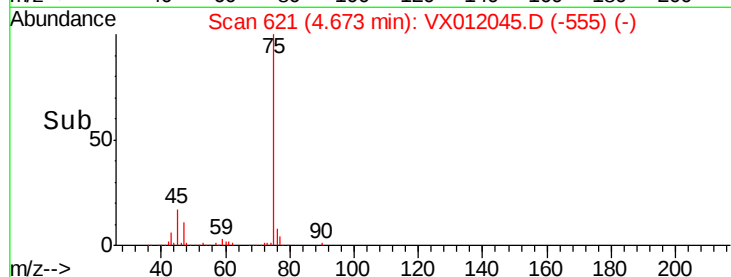
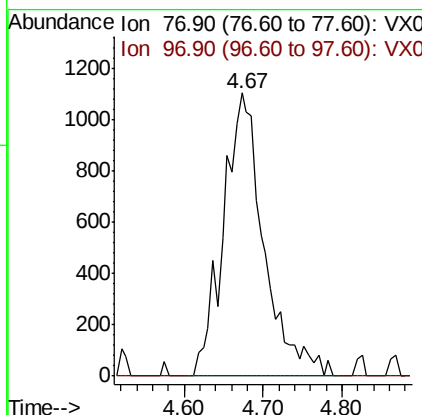
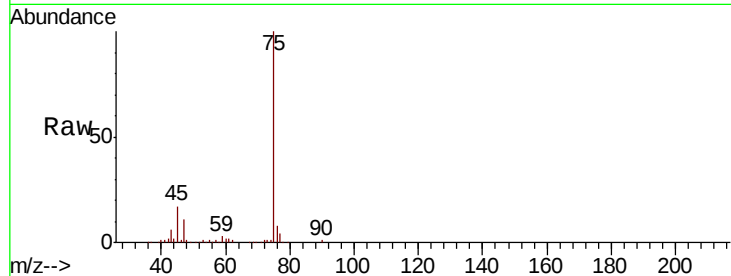




#26
 2,2-Dichloropropane
 Concen: 1.175 ug/l
 RT: 4.67 min Scan# 621
 Delta R.T. 0.10 min
 Lab File: VX012045.D
 Acq: 04 Sep 2019 12:04

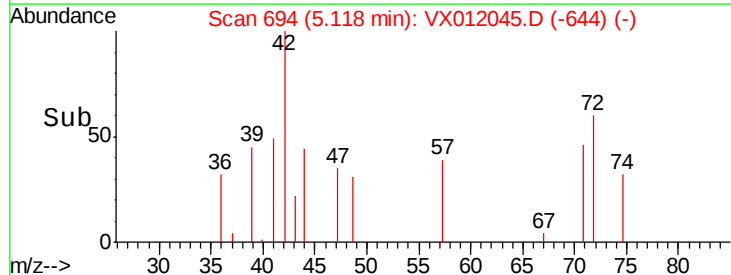
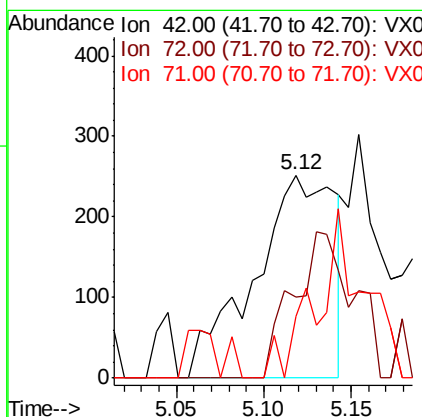
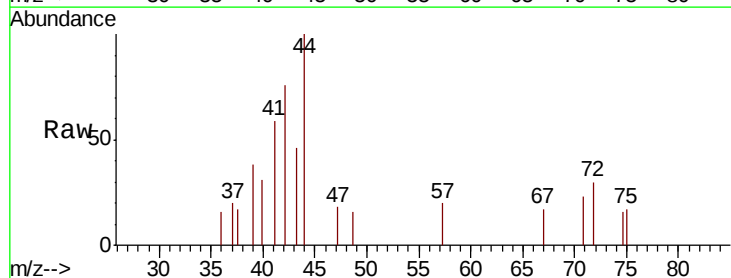
Instrument :
 MSVOA_X
 ClientSampleId :
 S602A-M-1.0-1.5-083019

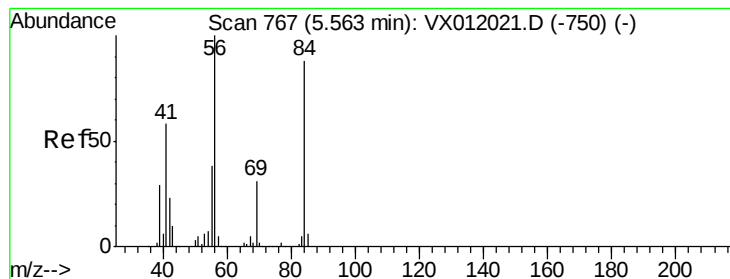
Tgt Ion: 77 Resp: 3956
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.5 34.5#



#29
 Tetrahydrofuran
 Concen: 1.844 ug/l
 RT: 5.12 min Scan# 694
 Delta R.T. 0.01 min
 Lab File: VX012045.D
 Acq: 04 Sep 2019 12:04

Tgt Ion: 42 Resp: 808
 Ion Ratio Lower Upper
 42 100
 72 0.0 37.0 55.4#
 71 0.0 33.8 50.8#





#31

Cyclohexane

Concen: 1.784 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.08 min

Lab File: VX012045.D

Acq: 04 Sep 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

S602A-M-1.0-1.5-083019

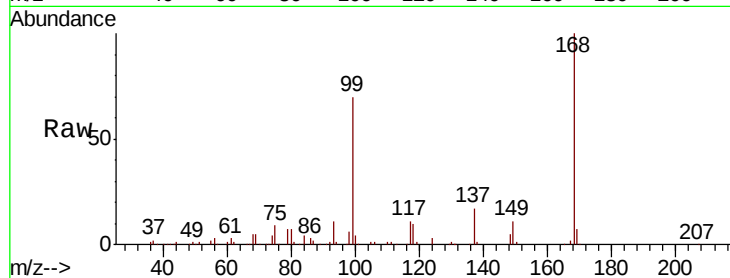
Tgt Ion: 56 Resp: 5228

Ion Ratio Lower Upper

56 100

69 178.8 25.7 38.5#

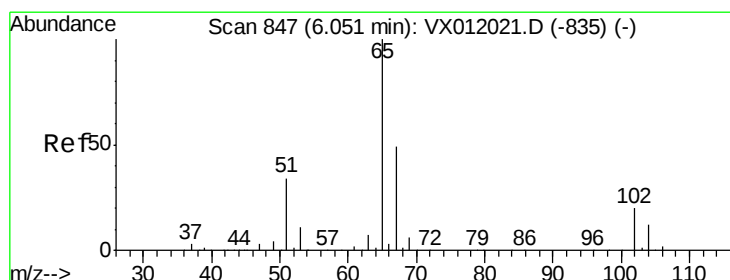
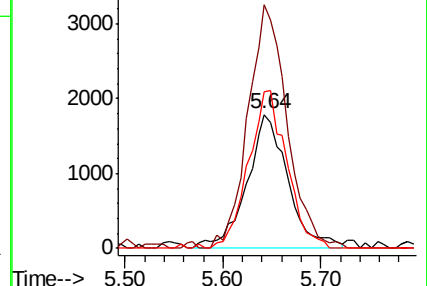
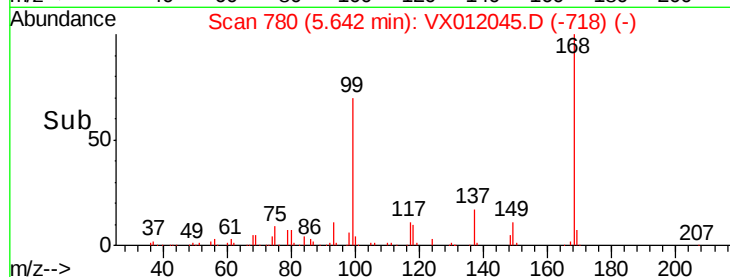
84 117.5 70.3 105.5#



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: 48.115 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012045.D

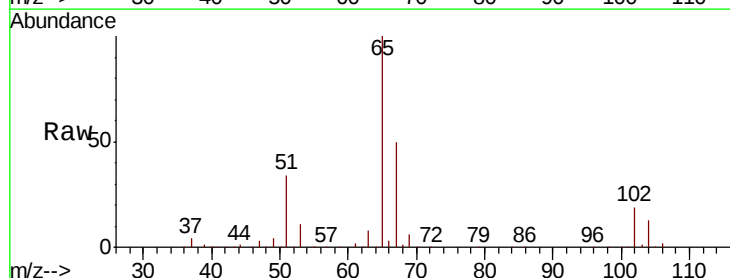
Acq: 04 Sep 2019 12:04

Tgt Ion: 65 Resp: 114991

Ion Ratio Lower Upper

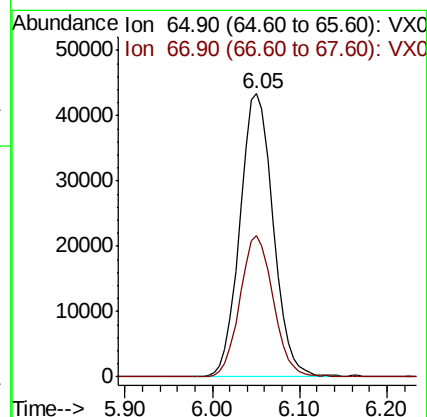
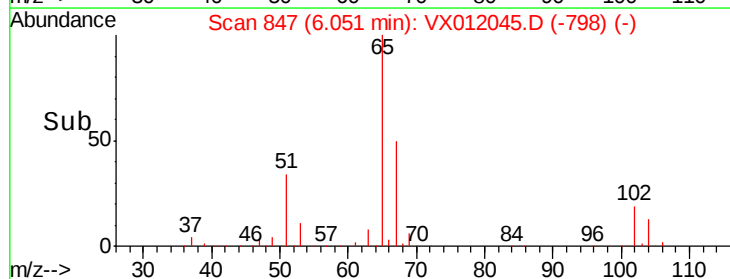
65 100

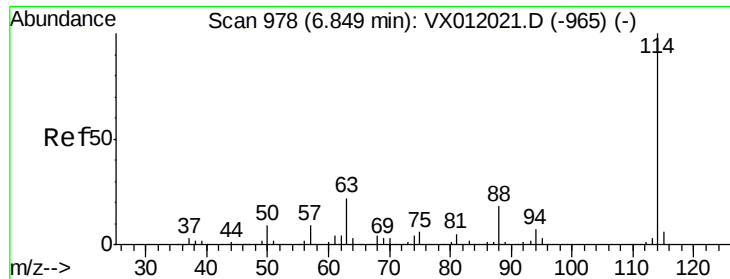
67 50.2 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

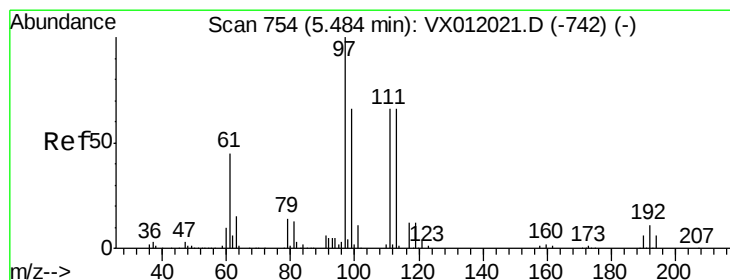
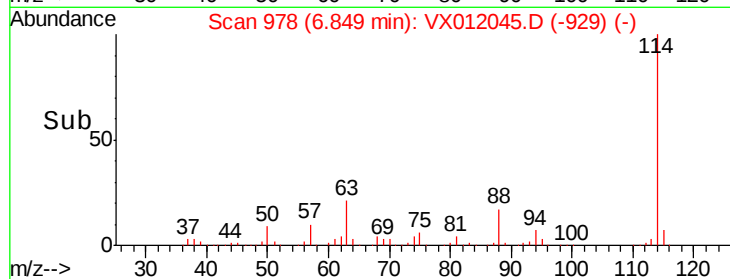
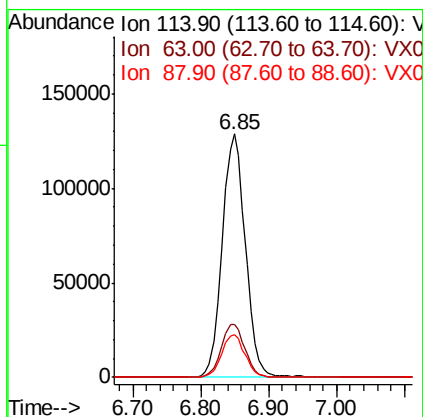
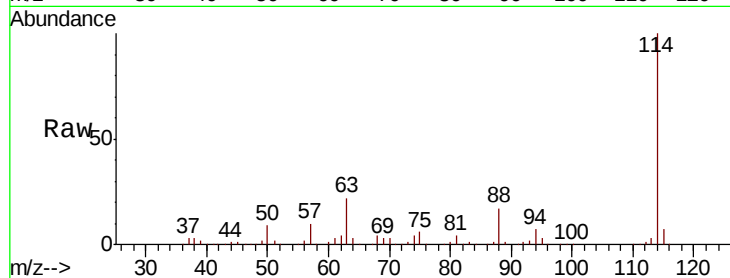




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012045.D
 Acq: 04 Sep 2019 12:04

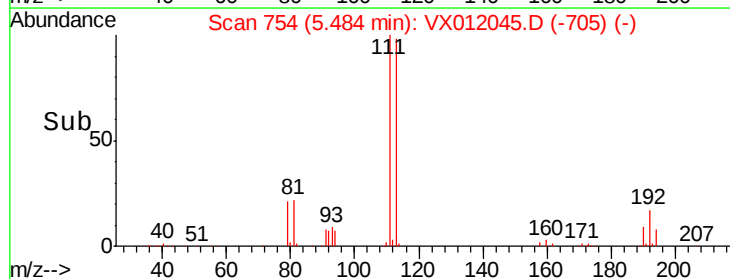
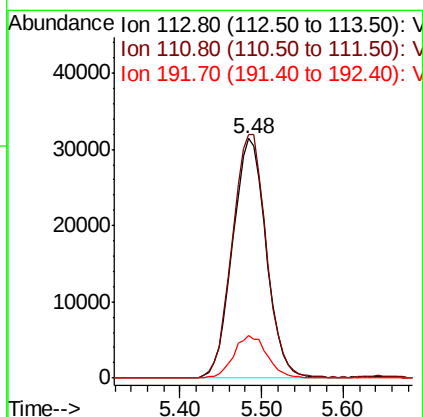
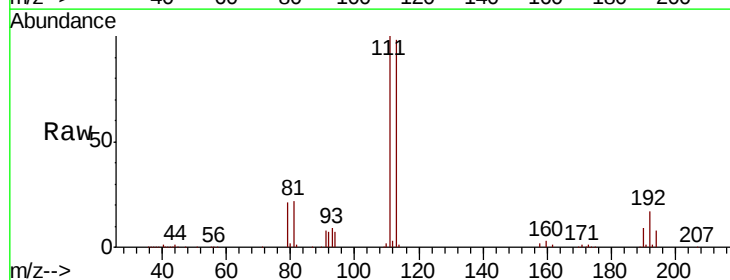
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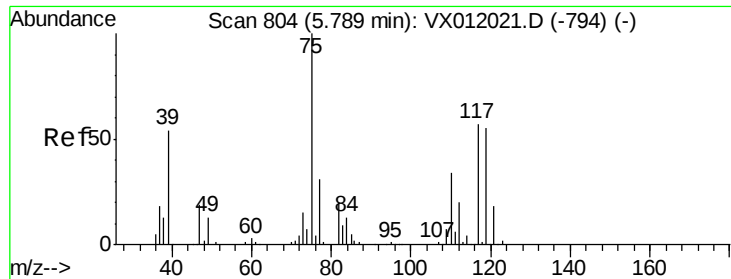
Tgt Ion:114 Resp: 304197
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 37.4
 88 17.3 0.0 29.6



#35
 Dibromofluoromethane
 Concen: 47.935 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.00 min
 Lab File: VX012045.D
 Acq: 04 Sep 2019 12:04

Tgt Ion:113 Resp: 89673
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.7 122.5
 192 17.6 22.5 33.7#

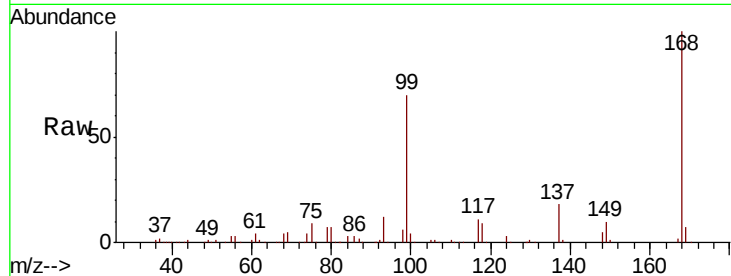




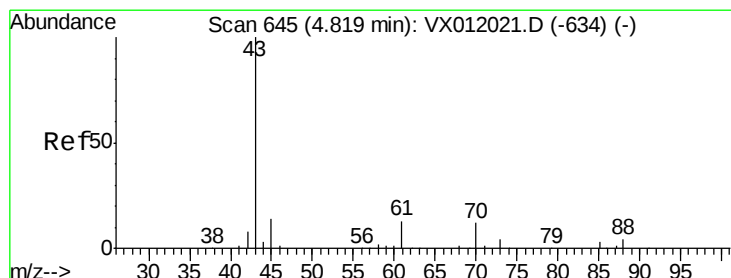
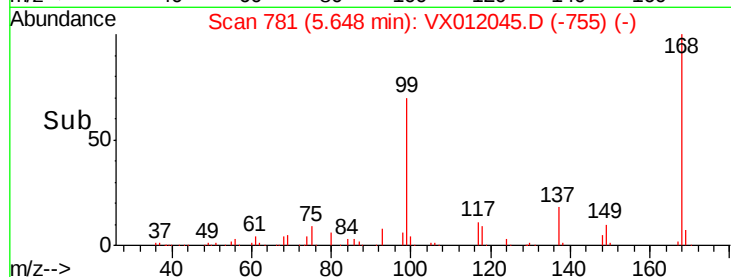
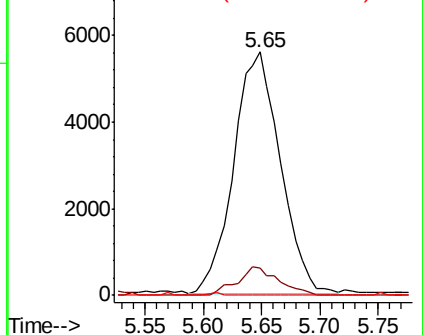
#36
 1,1-Dichloropropene
 Concen: 5.754 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012045.D
 Acq: 04 Sep 2019 12:04

Instrument :
 MSVOA_X
 ClientSampleId :
 S602A-M-1.0-1.5-083019

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	19.5	58.5#
77	0.0	24.6	37.0#

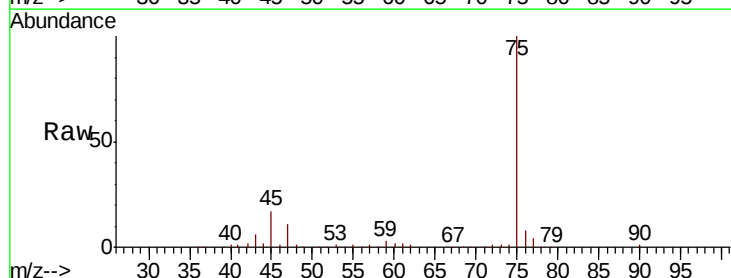


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

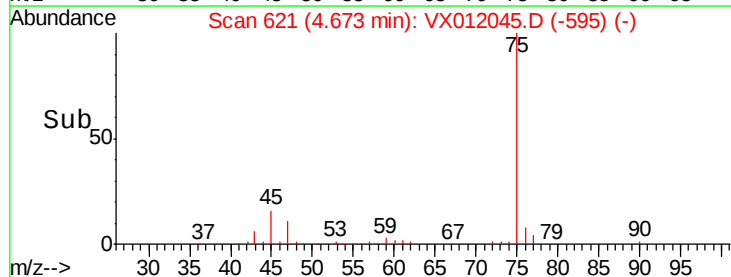
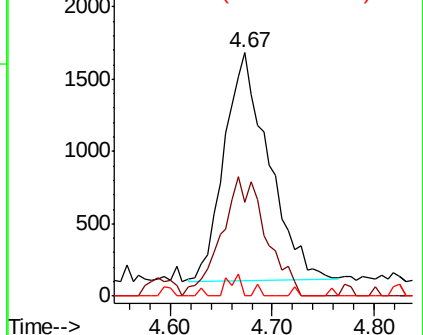


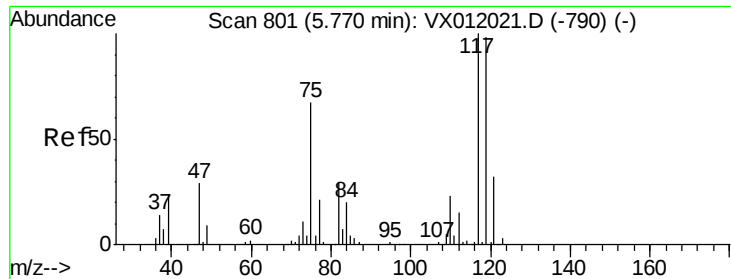
#37
 Ethyl Acetate
 Concen: 3.284 ug/l
 RT: 4.67 min Scan# 621
 Delta R.T. -0.14 min
 Lab File: VX012045.D
 Acq: 04 Sep 2019 12:04

Tgt Ion	Ratio	Lower	Upper
43	100		
61	51.9	10.9	16.3#
70	2.7	9.4	14.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 7.139 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.12 min

Lab File: VX012045.D

Acq: 04 Sep 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

S602A-M-1.0-1.5-083019

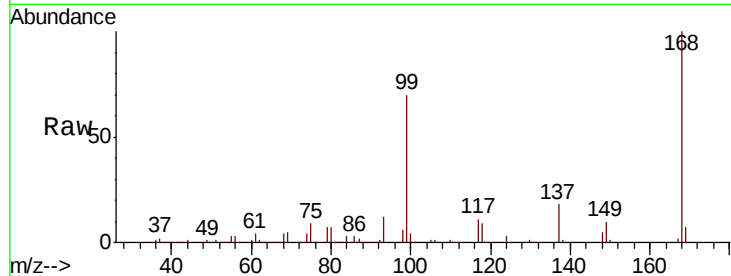
Tgt Ion:117 Resp: 20155

Ion Ratio Lower Upper

117 100

119 3.8 78.3 117.5#

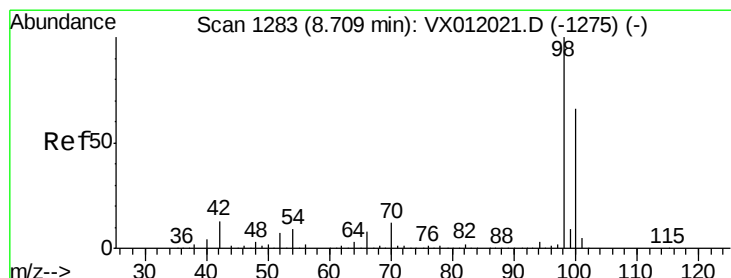
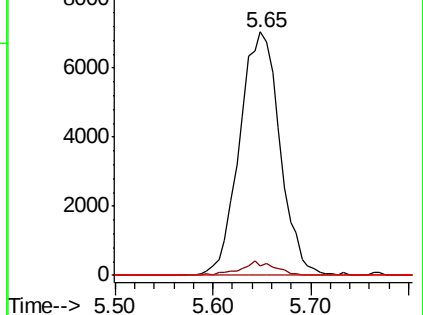
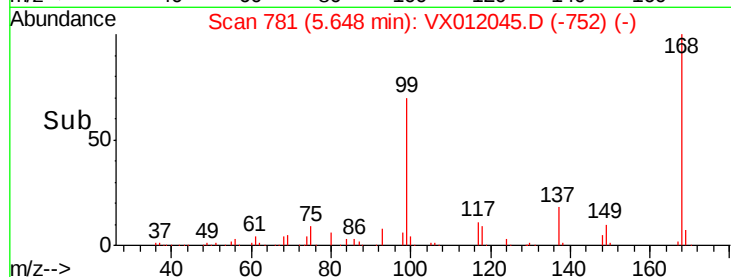
121 0.0 24.2 36.2#



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



#50

Toluene-d8

Concen: 52.381 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012045.D

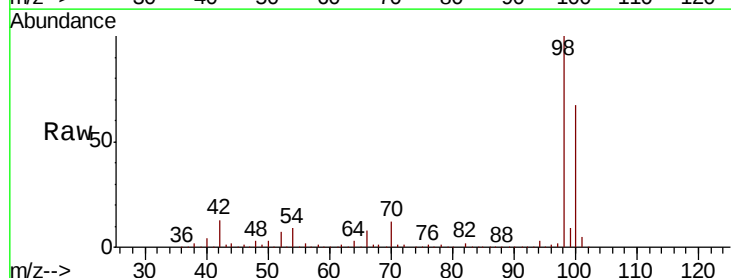
Acq: 04 Sep 2019 12:04

Tgt Ion: 98 Resp: 359578

Ion Ratio Lower Upper

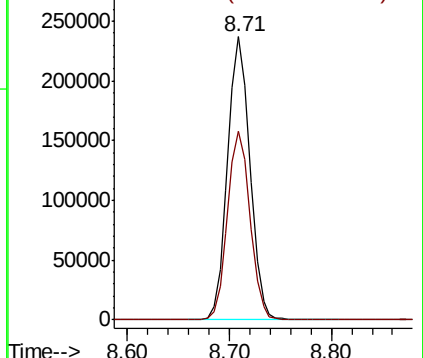
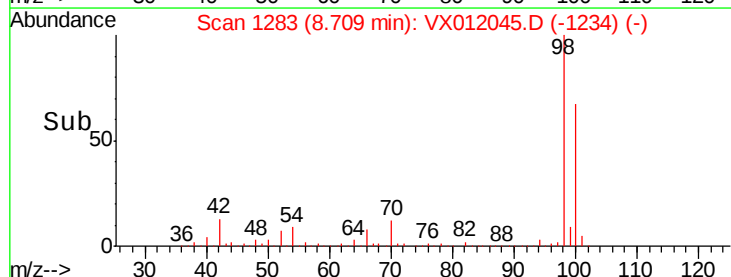
98 100

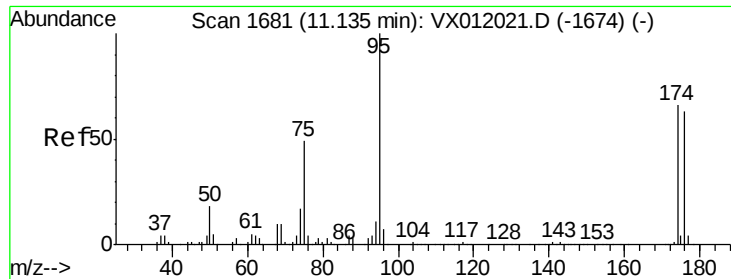
100 67.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.533 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012045.D

Acq: 04 Sep 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

S602A-M-1.0-1.5-083019

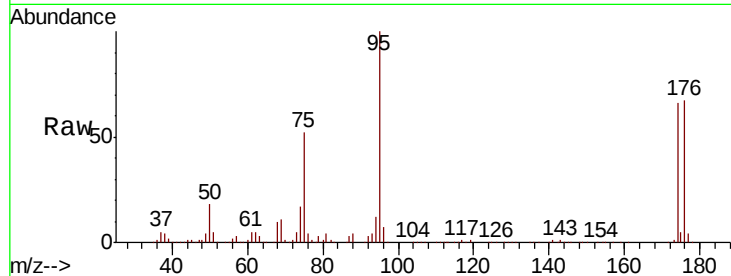
Tgt Ion: 95 Resp: 145364

Ion Ratio Lower Upper

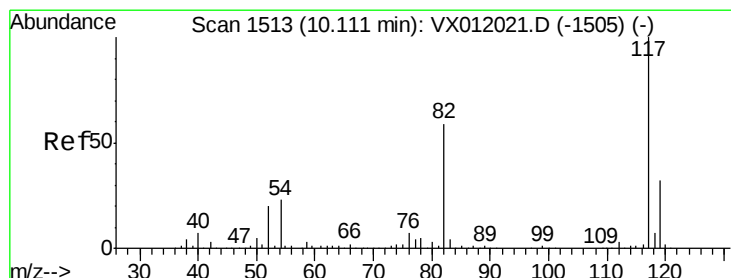
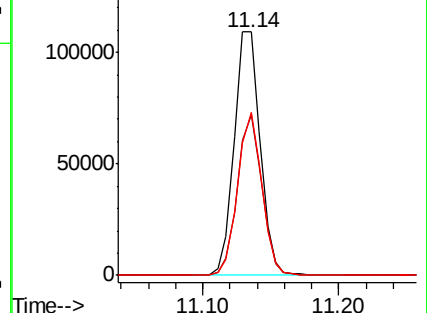
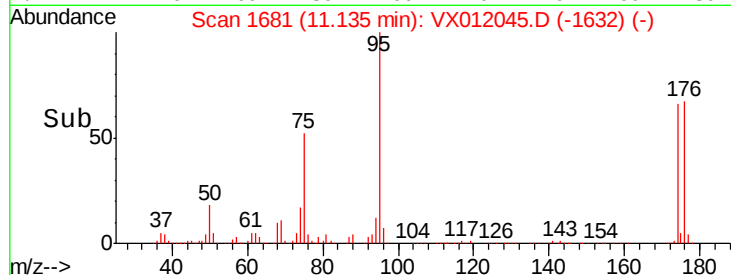
95 100

174 62.4 0.0 205.4

176 62.4 0.0 201.8



Abundance Ion 94.90 (94.60 to 95.60): VX012045.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012045.D

Acq: 04 Sep 2019 12:04

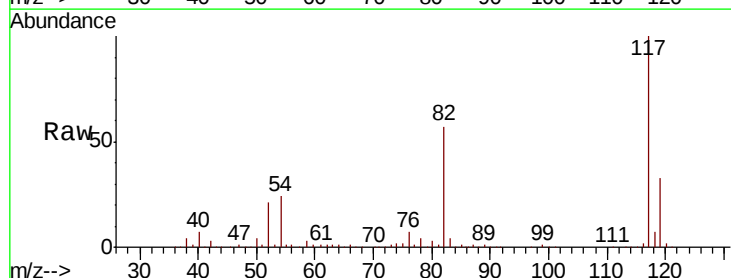
Tgt Ion: 117 Resp: 269793

Ion Ratio Lower Upper

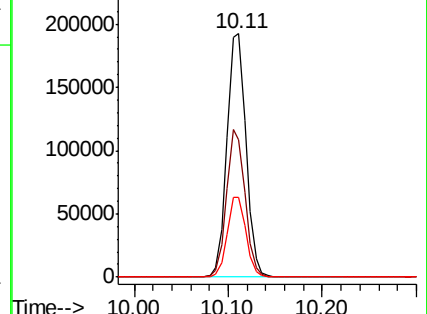
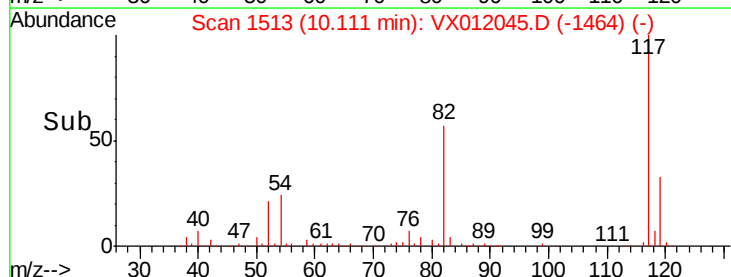
117 100

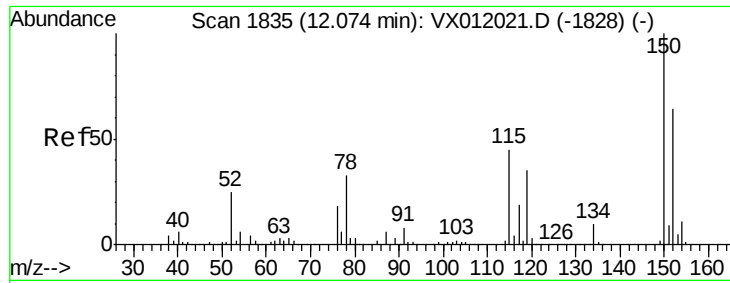
82 56.6 39.4 59.0

119 33.0 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): VX012045.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012045.D

Acq: 04 Sep 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

S602A-M-1.0-1.5-083019

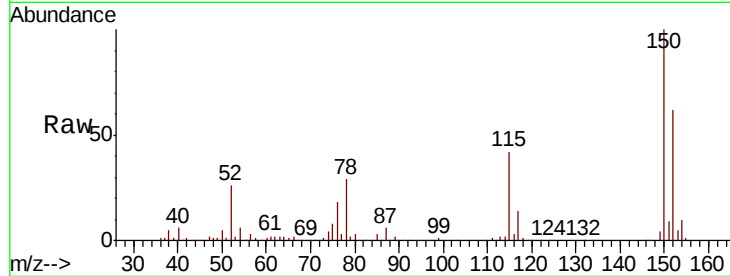
Tgt Ion:152 Resp: 118884

Ion Ratio Lower Upper

152 100

115 66.9 36.4 109.3

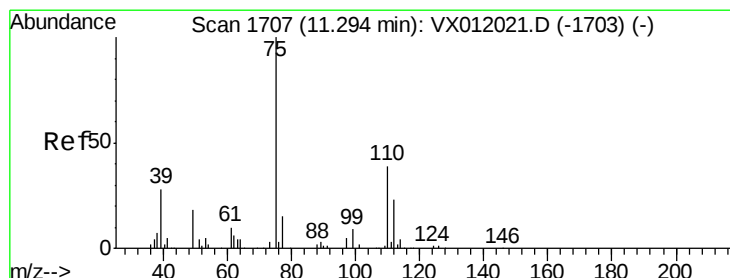
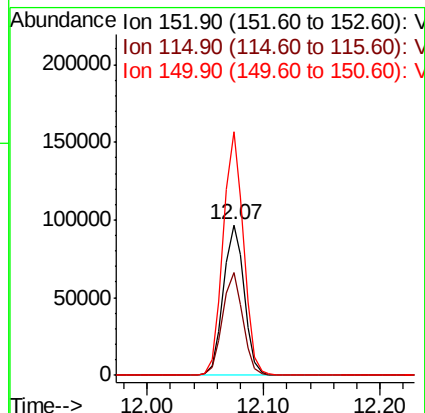
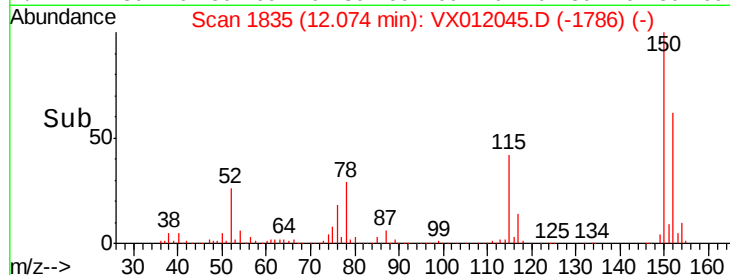
150 158.1 0.0 341.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 52.650 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012045.D

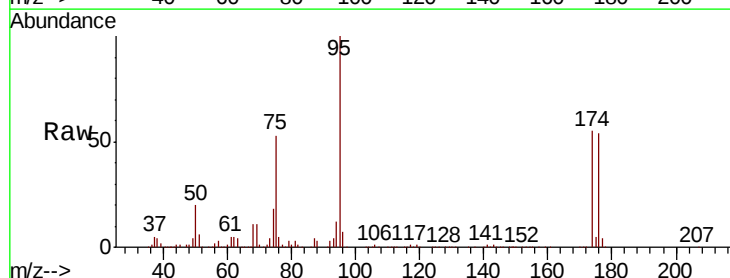
Acq: 04 Sep 2019 12:04

Tgt Ion: 75 Resp: 76478

Ion Ratio Lower Upper

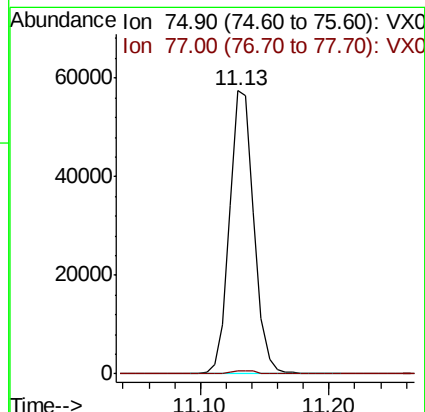
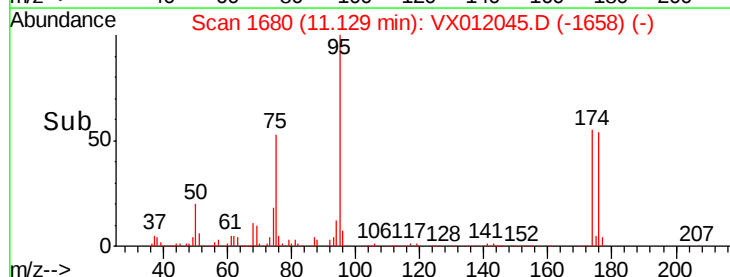
75 100

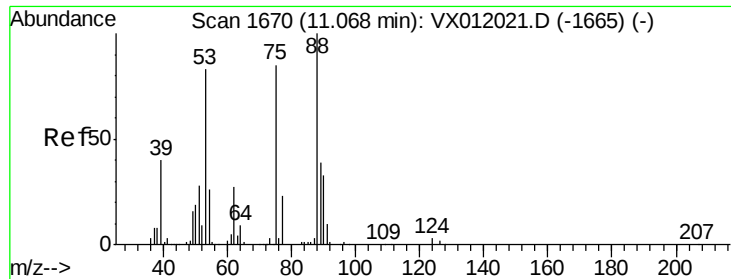
77 1.2 23.5 70.5#



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: 124.472 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012045.D

Acq: 04 Sep 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

S602A-M-1.0-1.5-083019

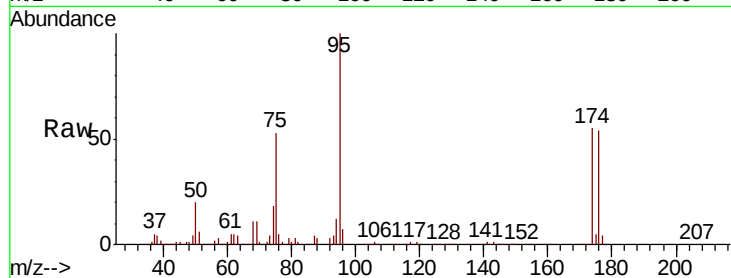
Tgt Ion: 75 Resp: 76478

Ion Ratio Lower Upper

75 100

53 0.0 78.6 117.8#

89 0.0 38.8 58.2#



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

