

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013827.D
 Acq On : 07 Dec 2019 02:44
 Operator : JC/SP
 Sample : K6185-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D3-20191205

Quant Time: Dec 07 05:44:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	605881	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	927181	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	830012	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	361402	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	339023	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
35) Dibromofluoromethane	5.49	113	277777	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
50) Toluene-d8	8.71	98	1103469	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
62) 4-Bromofluorobenzene	11.13	95	364533	45.27	ug/l	0.00
Spiked Amount			Recovery	=	90.54%	

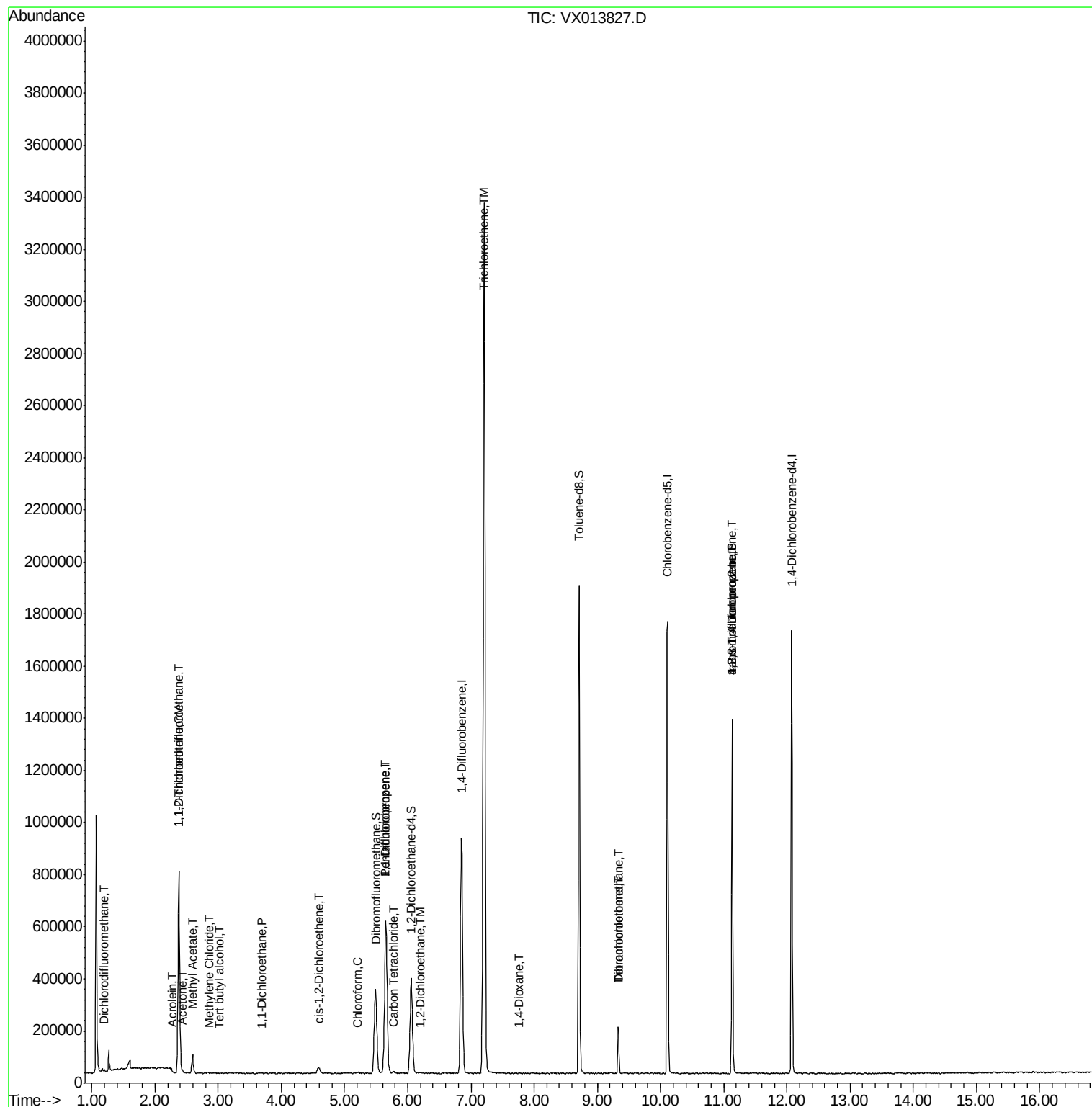
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	2208	0.327	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	2.37	101	306808	53.113	ug/l	98
11) Tert butyl alcohol	3.02	59	1573	0.906	ug/l #	35
12) 1,1-Dichloroethene	2.37	96	6327	1.097	ug/l	87
13) Acrolein	2.28	56	501	6.425	ug/l #	15
16) Acetone	2.43	43	9932	2.860	ug/l	98
18) Methyl Acetate	2.59	43	19626	2.030	ug/l #	54
20) Methylene Chloride	2.86	84	1523	0.228	ug/l #	58
24) 1,1-Dichloroethane	3.69	63	3982	0.362	ug/l #	89
27) cis-1,2-Dichloroethene	4.59	96	14685	2.036	ug/l	87
30) Chloroform	5.21	83	5310	0.475	ug/l	84
36) 1,1-Dichloropropene	5.65	75	39486	4.692	ug/l #	51
38) Carbon Tetrachloride	5.78	117	3063	0.395	ug/l #	92
42) 1,2-Dichloroethane	6.19	62	1916	0.219	ug/l	83
44) Trichloroethene	7.21	130	1330139	189.071	ug/l	98
49) 1,4-Dioxane	7.75	88	1668	9.866	ug/l #	37
60) Dibromochloromethane	9.33	129	32650	4.902	ug/l #	12
64) Tetrachloroethene	9.33	164	35868	5.795	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	174327	21.446	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.14	75	174327	58.673	ug/l #	11

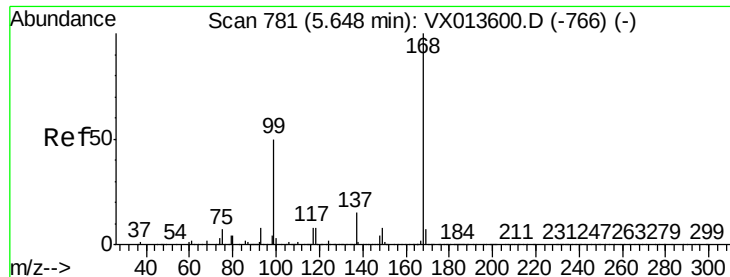
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
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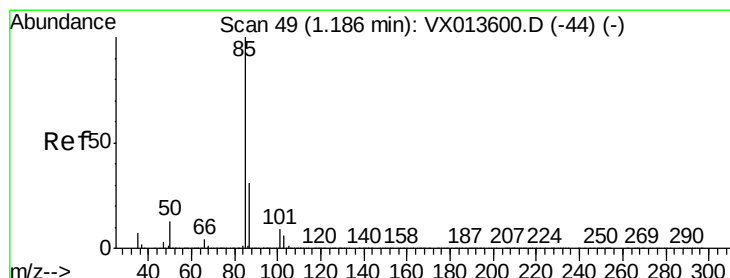
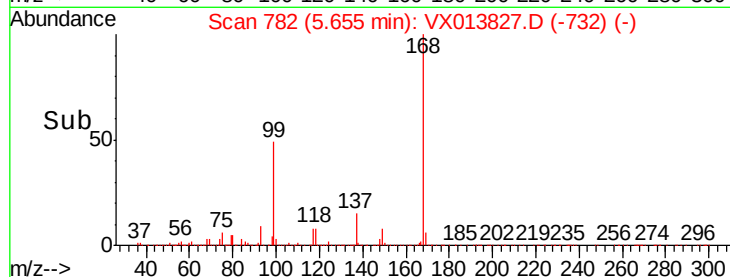
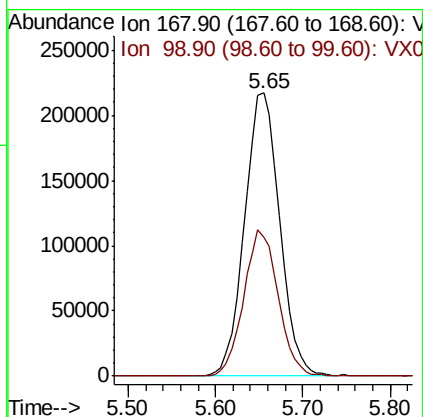
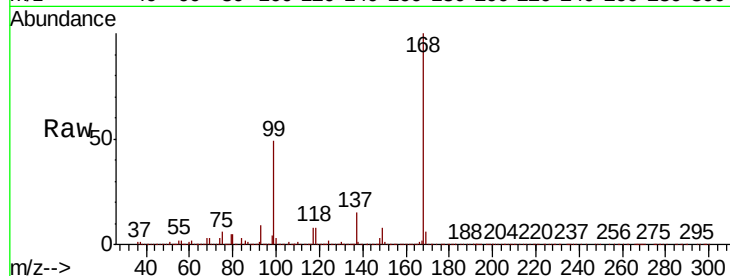




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.01 min
Lab File: VX013827.D
Acq: 07 Dec 2019 02:44

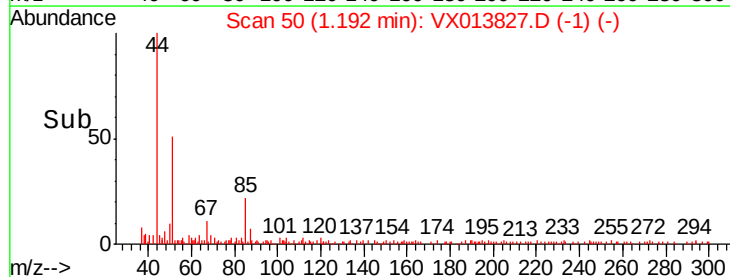
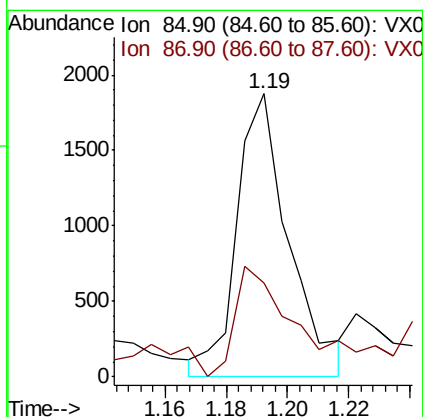
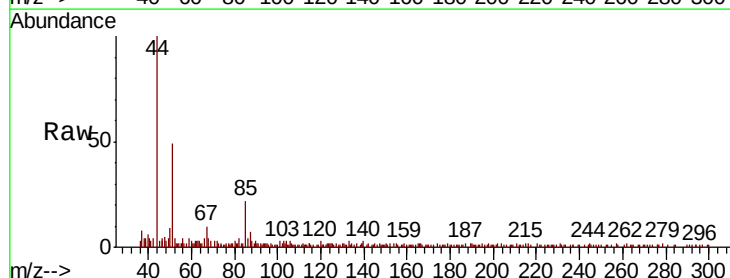
Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20191205

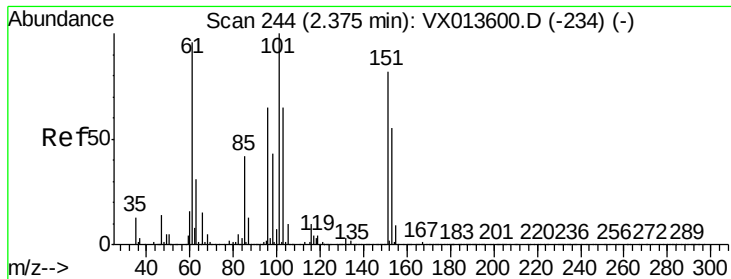
Tot Ion:168 Resp: 605881
Ion Ratio Lower Upper
168 100
99 49.0 39.8 59.8



#2
Dichlorodifluoromethane
Concen: 0.327 ug/l
RT: 1.19 min Scan# 50
Delta R.T. 0.01 min
Lab File: VX013827.D
Acq: 07 Dec 2019 02:44

Tgt Ion: 85 Resp: 2208
Ion Ratio Lower Upper
85 100
87 24.0 15.7 47.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.113 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20191205

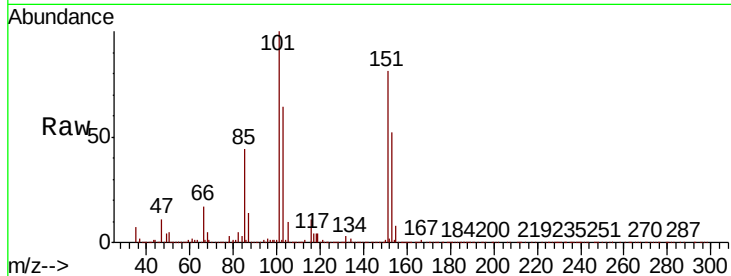
Tot Ion:101 Resp: 306808

Ion Ratio Lower Upper

101 100

85 42.3 33.9 50.9

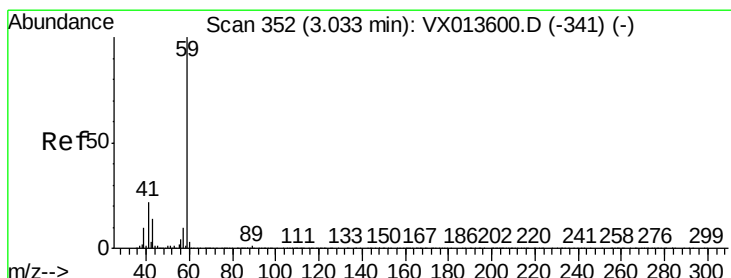
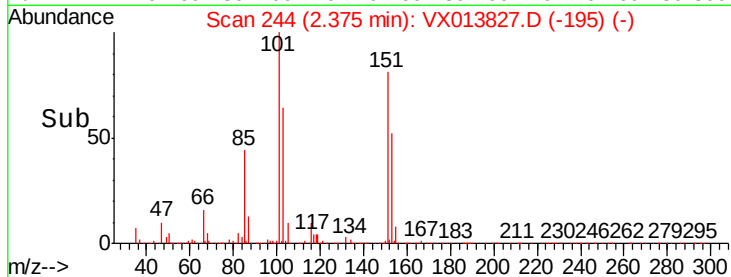
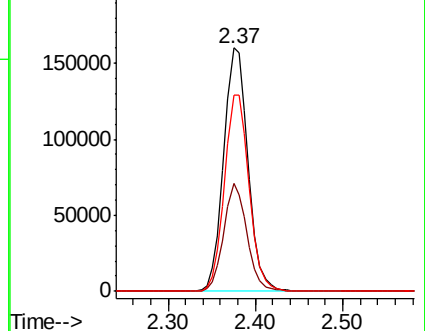
151 82.6 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.906 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX013827.D

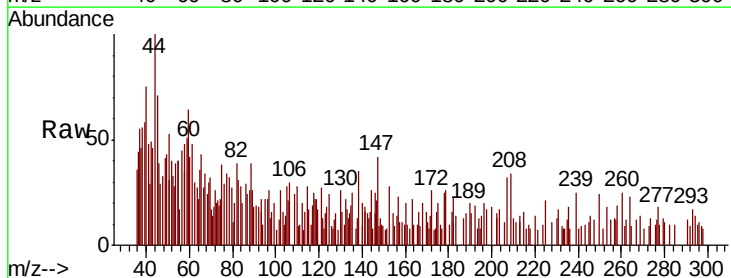
Acq: 07 Dec 2019 02:44

Tgt Ion: 59 Resp: 1573

Ion Ratio Lower Upper

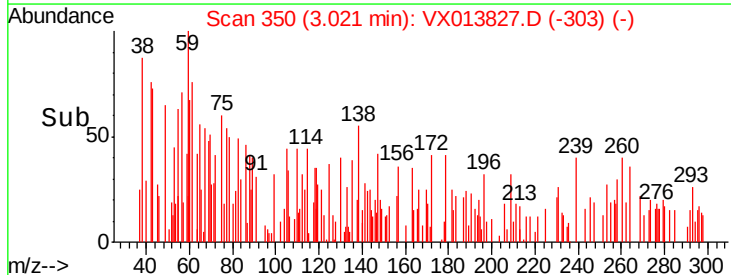
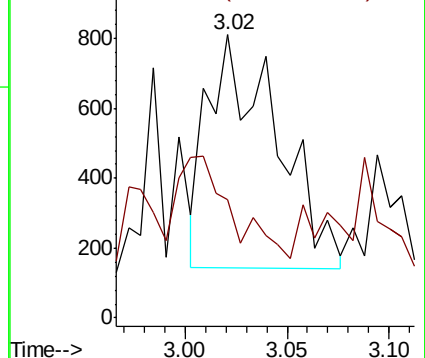
59 100

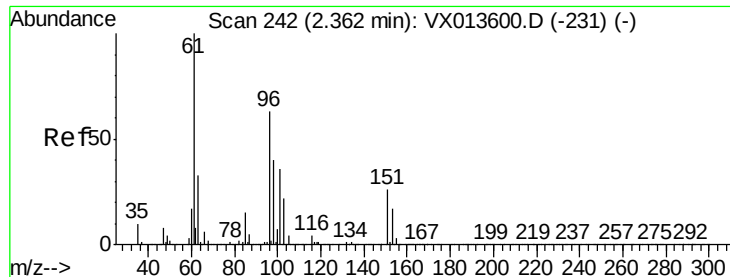
57 33.7 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.097 ug/l

RT: 2.37 min Scan# 243

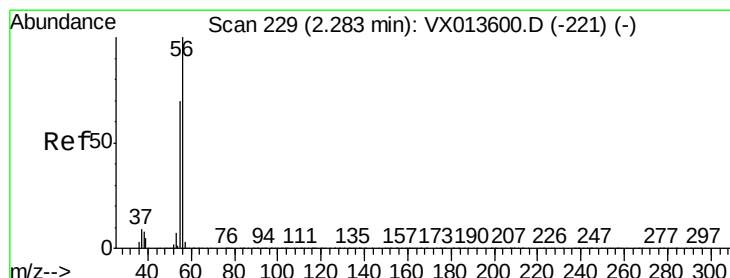
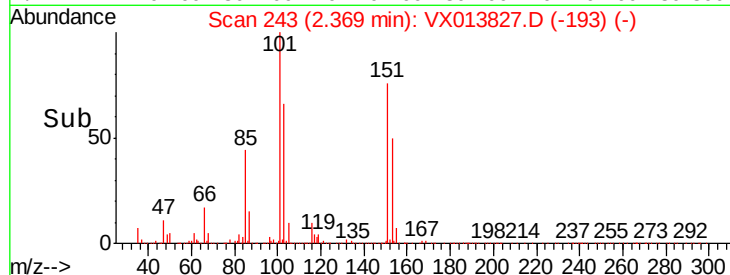
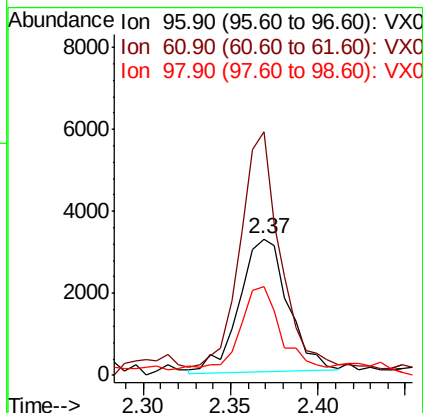
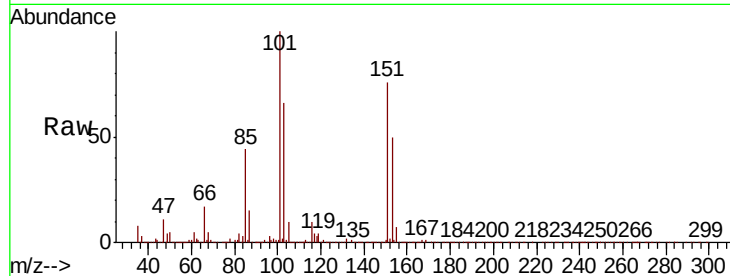
Delta R.T. 0.01 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20191205

Tot Ion:	96	Resp:	6327
Ion	Ratio	Lower	Upper
96	100		
61	179.8	126.6	190.0
98	61.2	50.6	76.0



#13

Acrolein

Concen: 6.425 ug/l

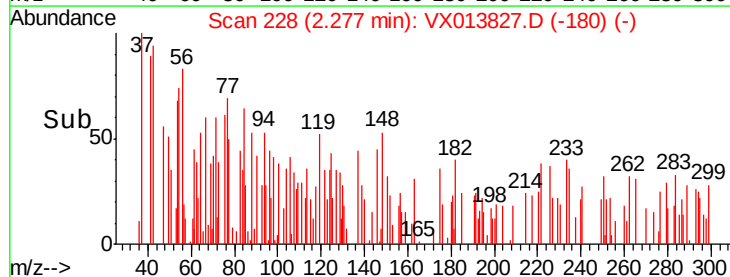
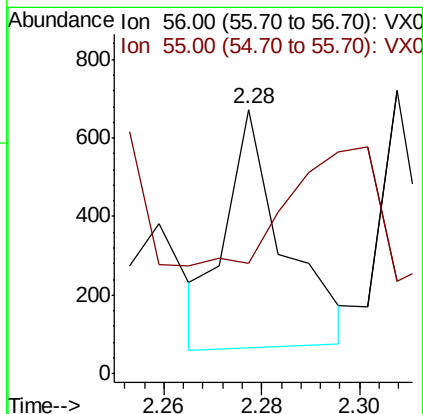
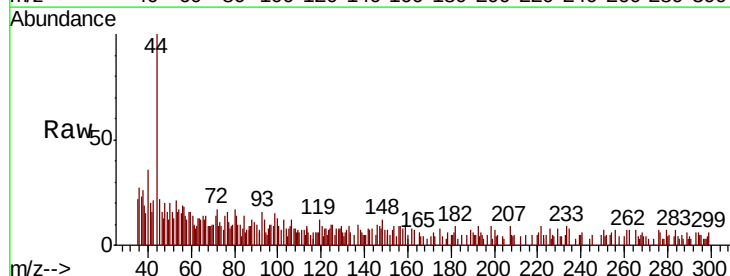
RT: 2.28 min Scan# 228

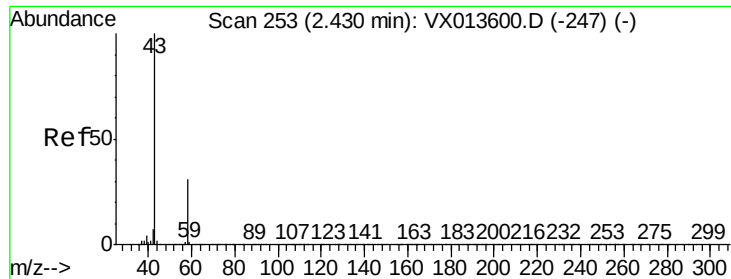
Delta R.T. -0.01 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

Tgt Ion:	56	Resp:	501
Ion	Ratio	Lower	Upper
56	100		
55	0.0	56.2	84.4#

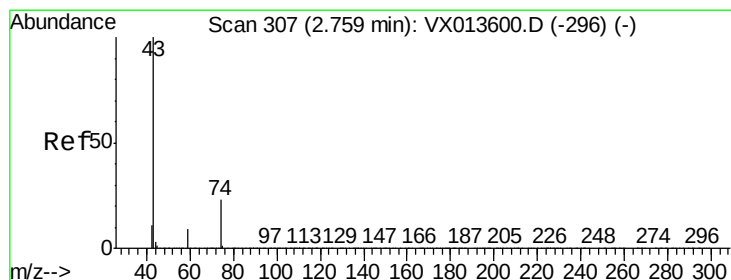
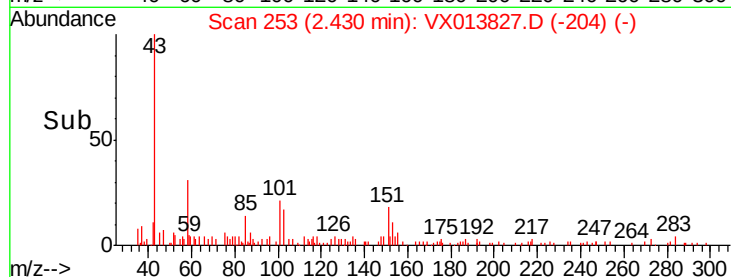
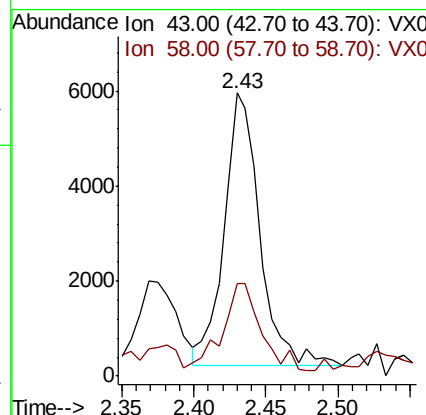
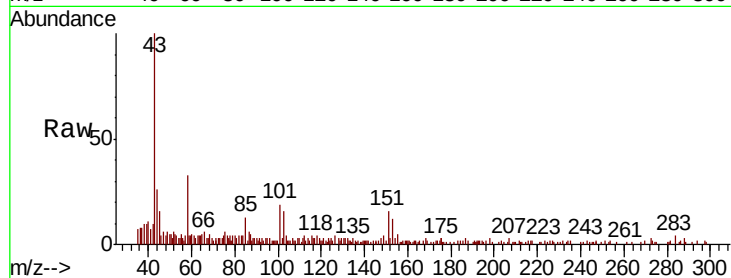




#16
Acetone
Concen: 2.860 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013827.D
Acq: 07 Dec 2019 02:44

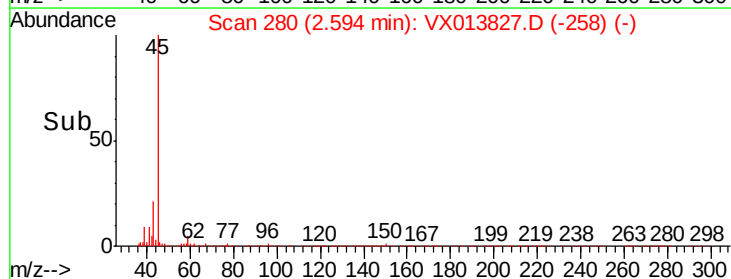
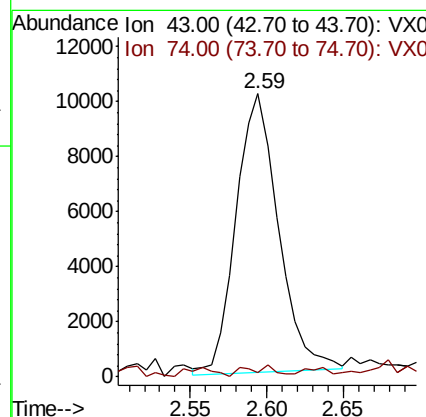
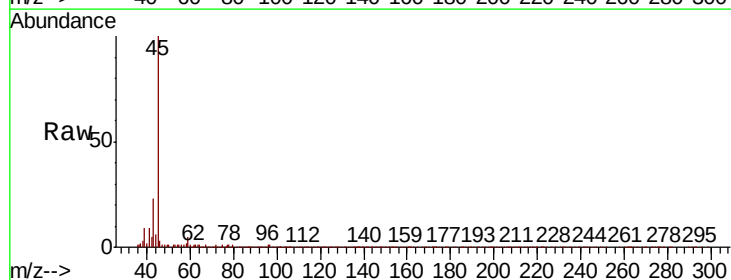
Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20191205

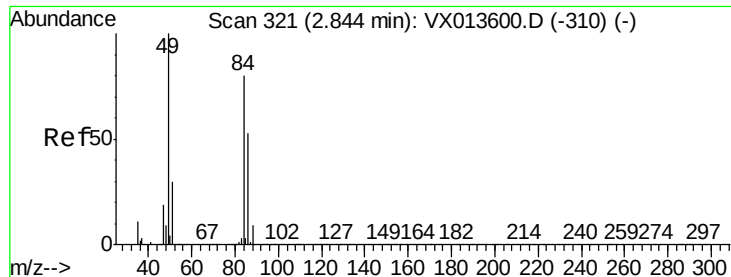
Tot Ion: 43 Resp: 9932
Ion Ratio Lower Upper
43 100
58 29.8 24.6 36.8



#18
Methyl Acetate
Concen: 2.030 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.16 min
Lab File: VX013827.D
Acq: 07 Dec 2019 02:44

Tgt Ion: 43 Resp: 19626
Ion Ratio Lower Upper
43 100
74 1.5 19.5 29.3#

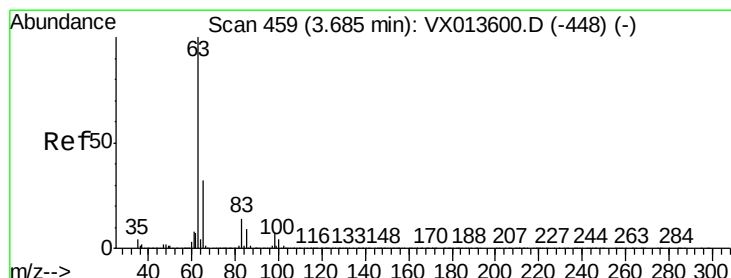
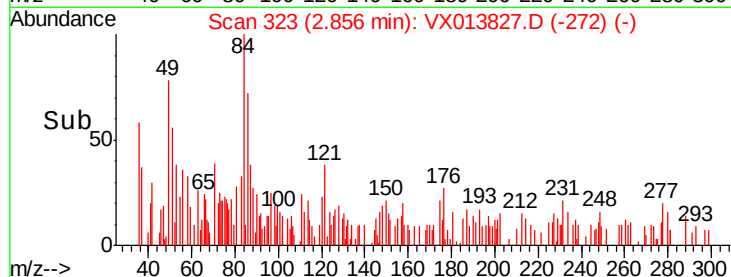
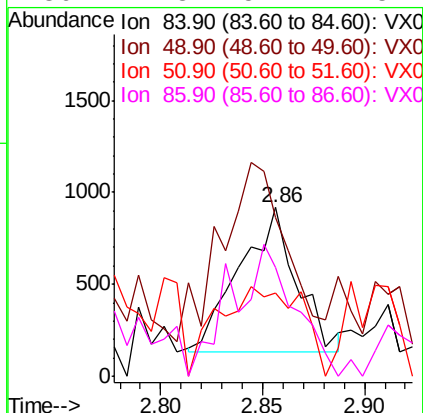
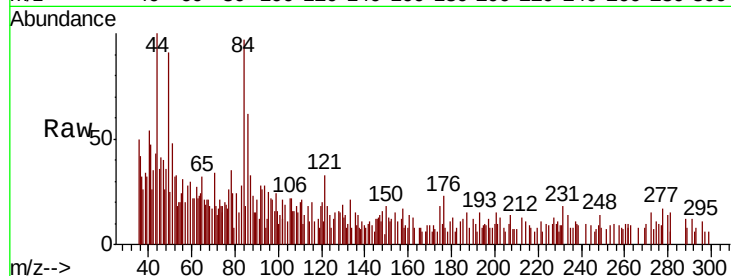




#20
Methylene Chloride
Concen: 0.228 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013827.D
Acq: 07 Dec 2019 02:44

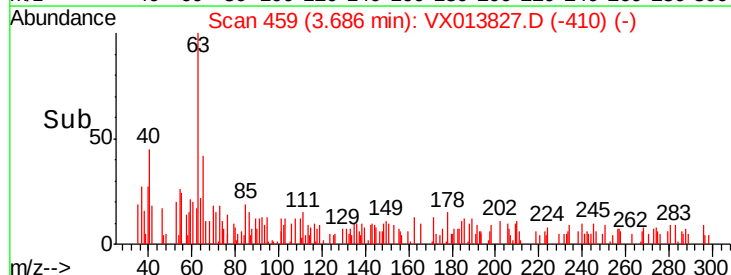
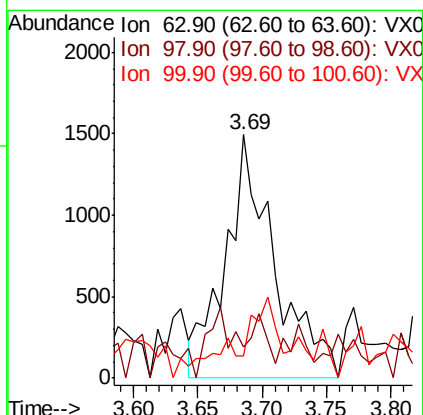
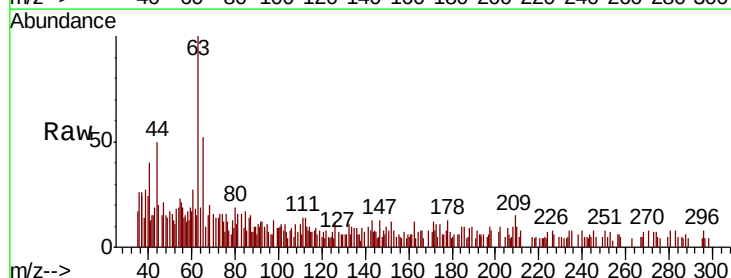
Instrument :
MSVOA_X
ClientSampleId :
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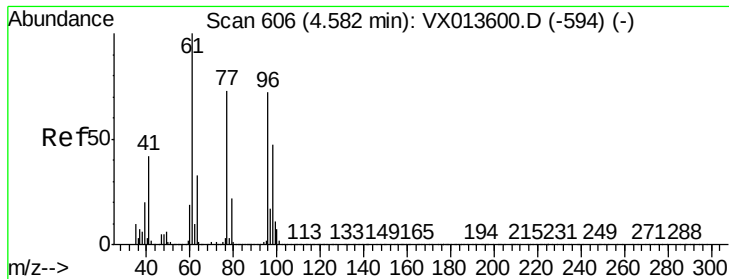
Tot Ion:	84	Resp:	1523
Ion	Ratio	Lower	Upper
84	100		
49	46.8	99.7	149.5#
51	39.3	29.9	44.9
86	77.3	52.2	78.4



#24
1,1-Dichloroethane
Concen: 0.362 ug/l
RT: 3.69 min Scan# 459
Delta R.T. 0.00 min
Lab File: VX013827.D
Acq: 07 Dec 2019 02:44

Tgt Ion:	63	Resp:	3982
Ion	Ratio	Lower	Upper
63	100		
98	0.7	3.5	10.4#
100	4.3	2.1	6.3



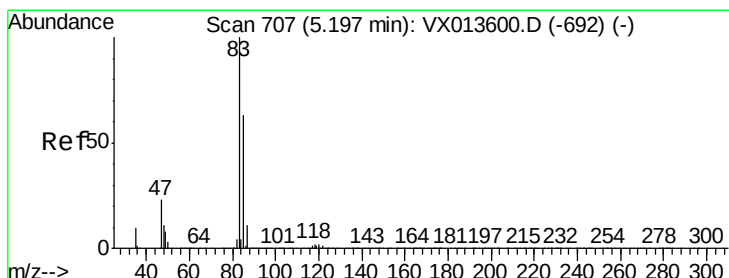
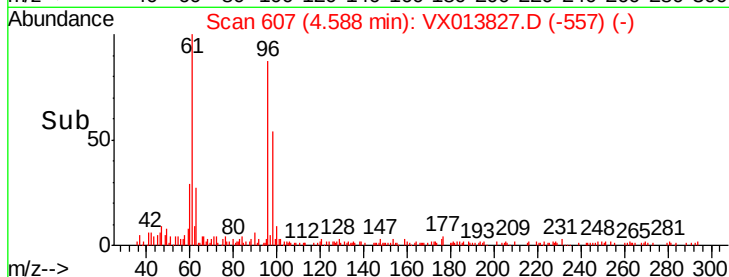
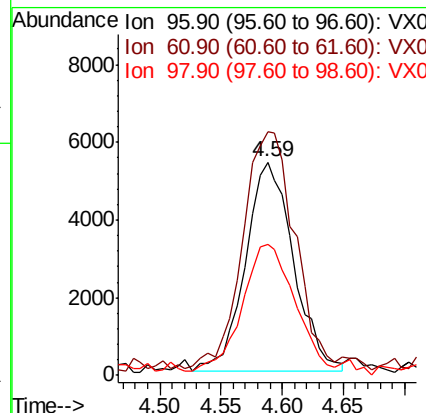
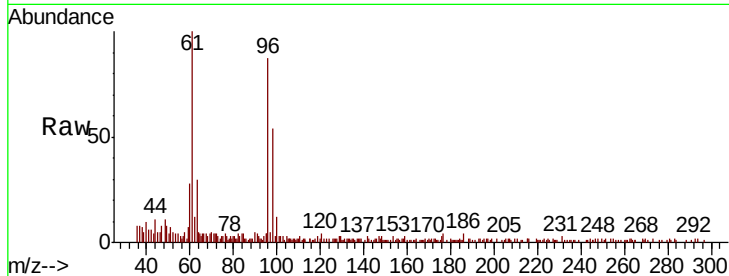


#27

cis-1,2-Dichloroethene
Concen: 2.036 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013827.D
Acq: 07 Dec 2019 02:44

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20191205

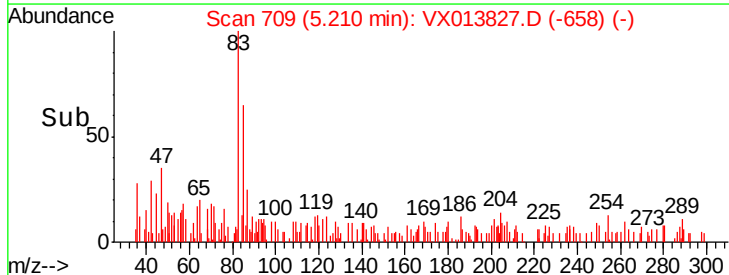
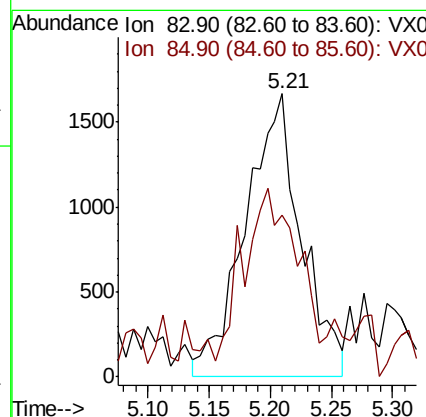
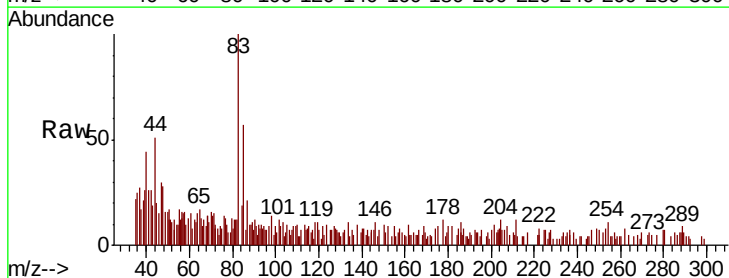
Tot Ion	Ratio	Lower	Upper
96	100		
61	122.4	0.0	286.4
98	67.3	0.0	127.4

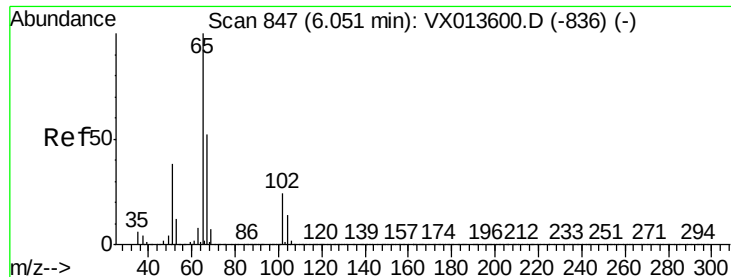


#30

Chloroform
Concen: 0.475 ug/l
RT: 5.21 min Scan# 709
Delta R.T. 0.01 min
Lab File: VX013827.D
Acq: 07 Dec 2019 02:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	50.6	50.2	75.4

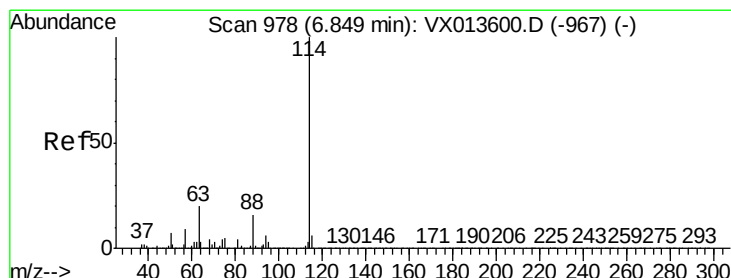
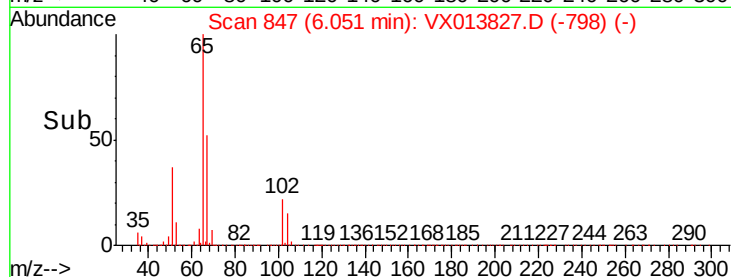
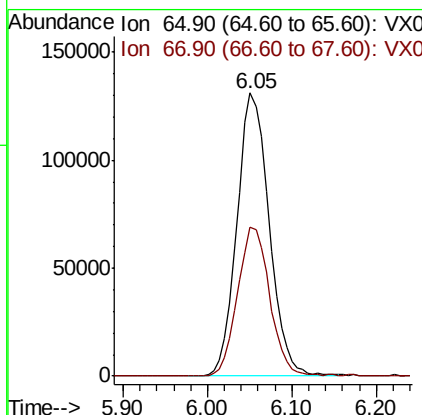
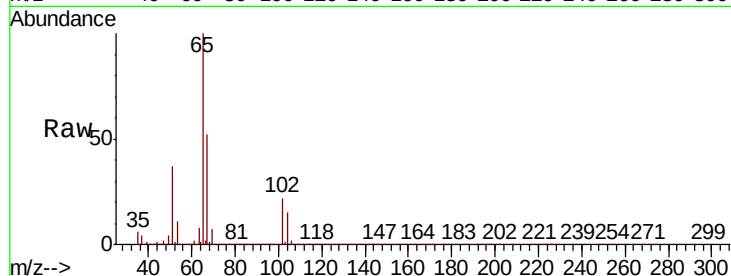




#33
 1,2-Dichloroethane-d4
 Concen: 48.205 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013827.D
 Acq: 07 Dec 2019 02:44

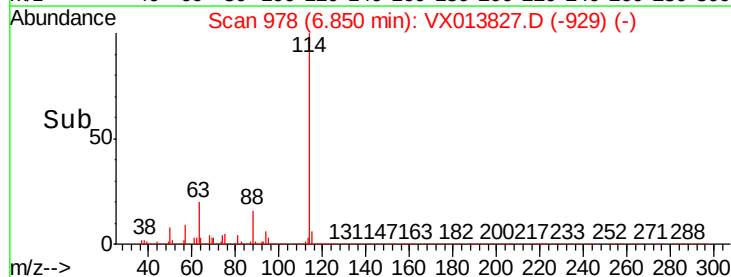
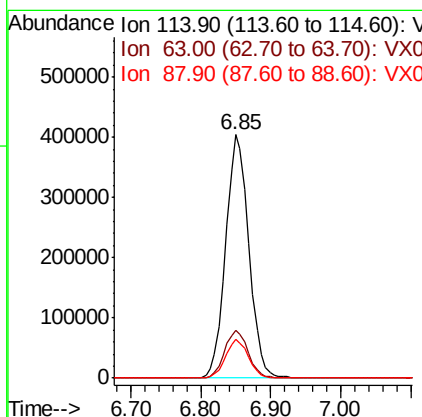
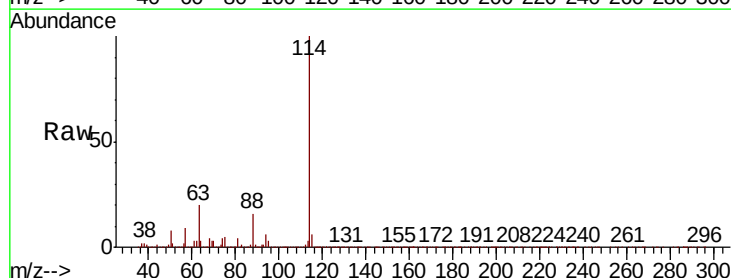
Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D3-20191205

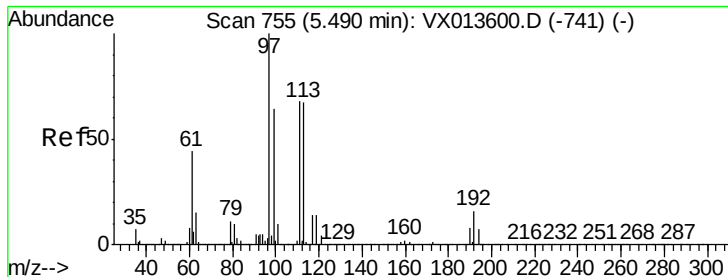
Tot Ion: 65 Resp: 339023
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013827.D
 Acq: 07 Dec 2019 02:44

Tgt Ion: 114 Resp: 927181
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.6
 88 15.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.461 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20191205

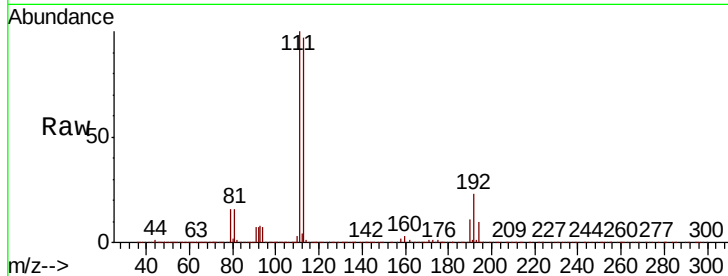
Tot Ion:113 Resp: 277777

Ion Ratio Lower Upper

113 100

111 102.7 83.6 125.4

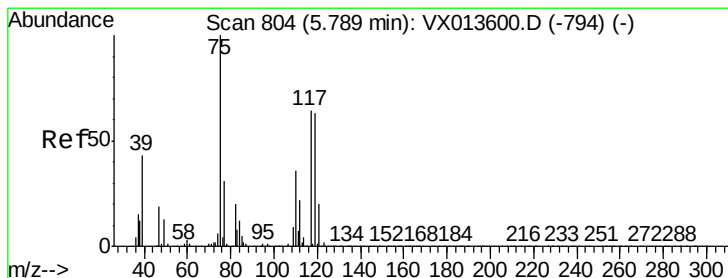
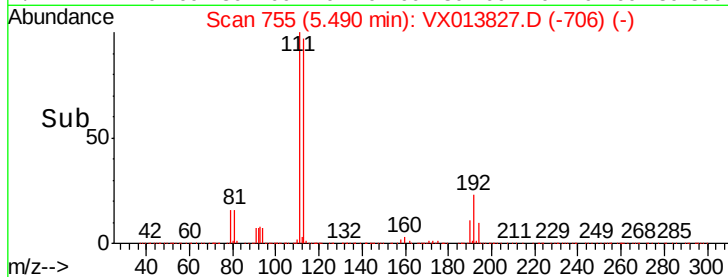
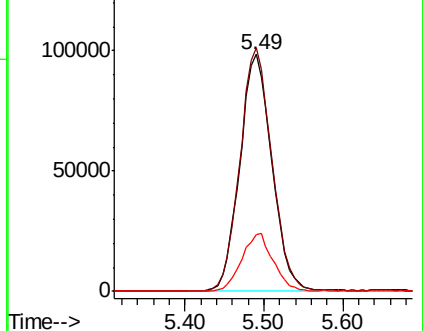
192 24.1 19.2 28.8



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: 4.692 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

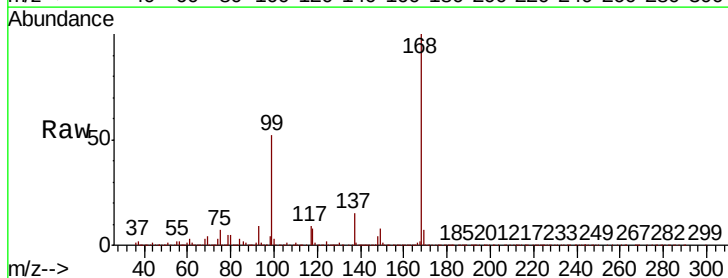
Tgt Ion: 75 Resp: 39486

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.1#

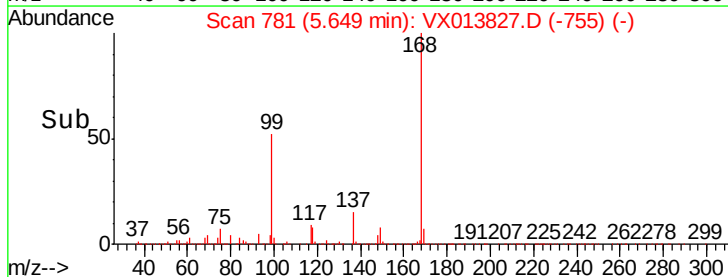
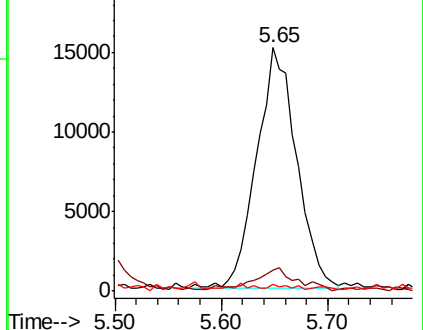
77 1.1 24.5 36.7#

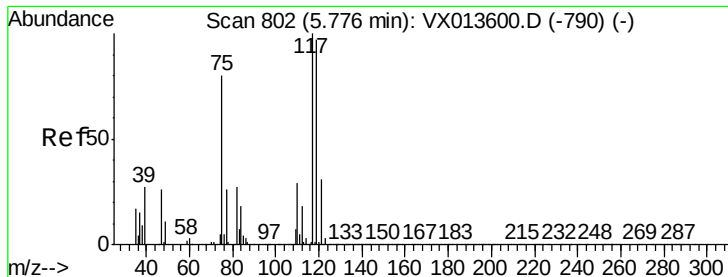


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 0.395 ug/l

RT: 5.78 min Scan# 802

Delta R.T. 0.00 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20191205

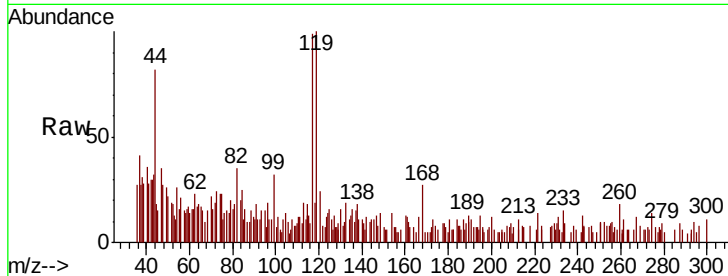
Tot Ion:117 Resp: 3063

Ion Ratio Lower Upper

117 100

119 100.1 77.5 116.3

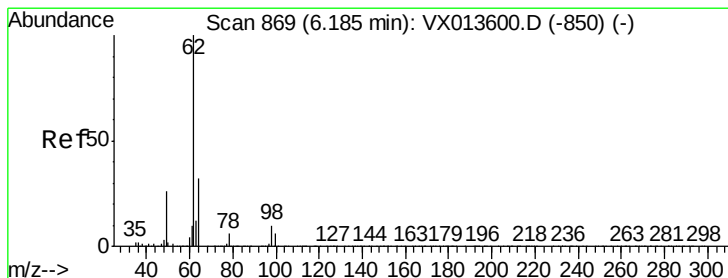
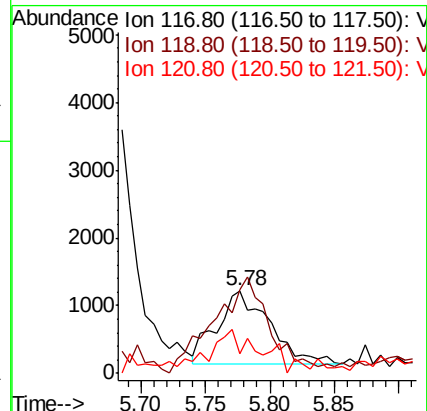
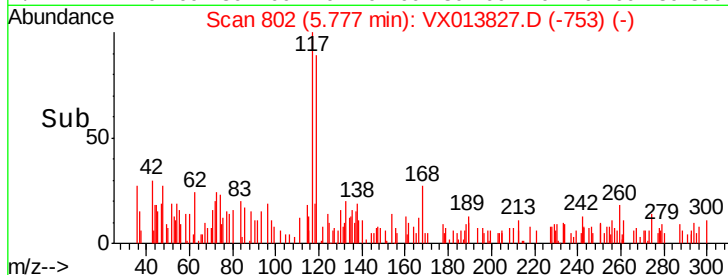
121 18.6 25.0 37.6#



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



#42

1,2-Dichloroethane

Concen: 0.219 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX013827.D

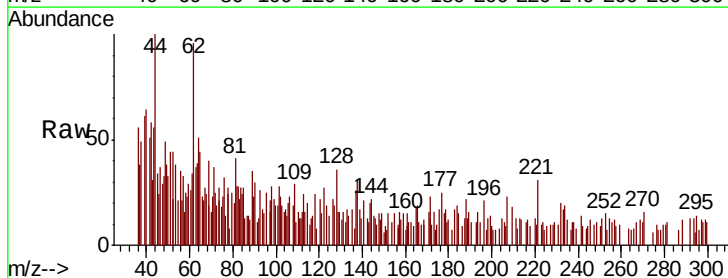
Acq: 07 Dec 2019 02:44

Tgt Ion: 62 Resp: 1916

Ion Ratio Lower Upper

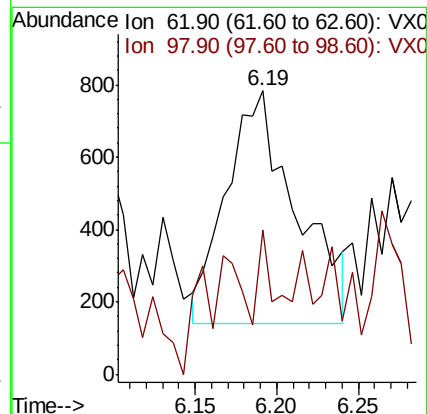
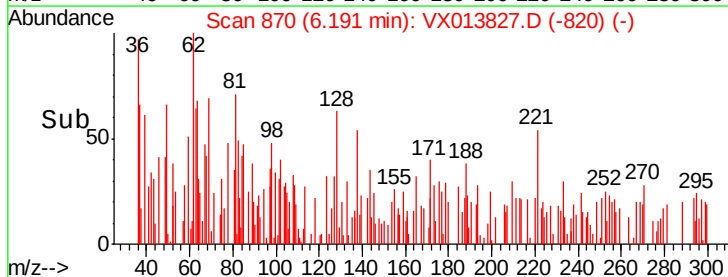
62 100

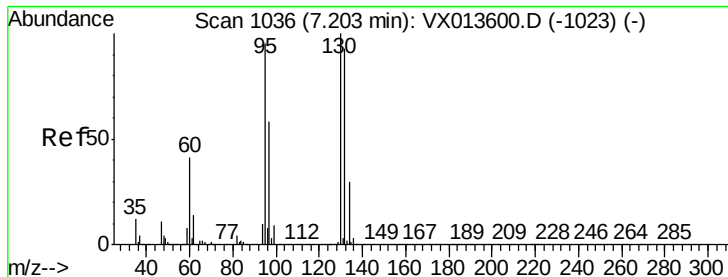
98 16.9 0.0 20.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 189.071 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

Instrument :

MSVOA_X

ClientSampleId :

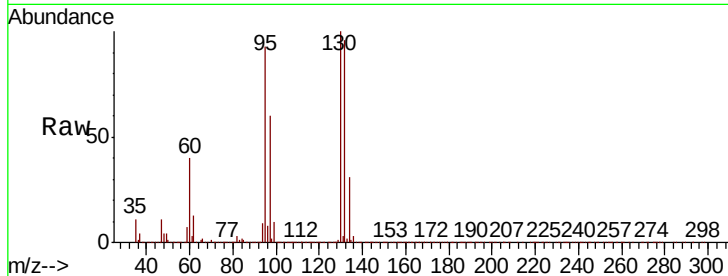
RE125D3-20191205

Tot Ion:130 Resp: 1330139

Ion Ratio Lower Upper

130 100

95 93.3 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

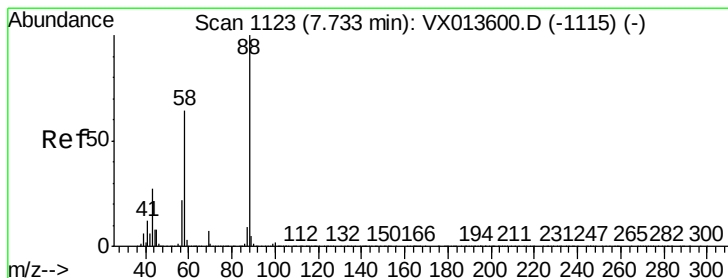
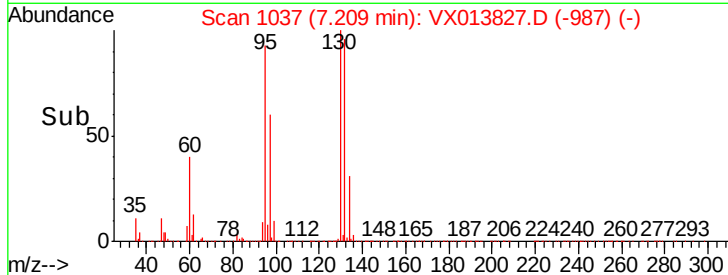
600000

400000

200000

0

Time-->



#49

1,4-Dioxane

Concen: 9.866 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

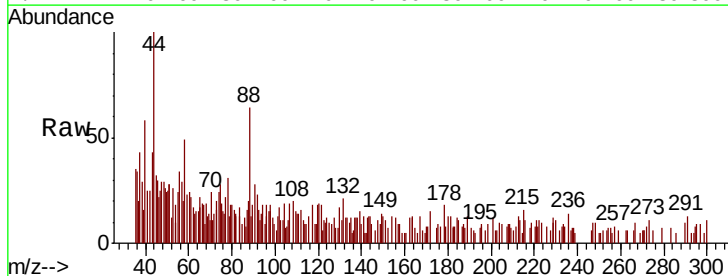
Tgt Ion: 88 Resp: 1668

Ion Ratio Lower Upper

88 100

43 87.2 25.8 38.6#

58 30.6 54.6 82.0#



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

1000

800

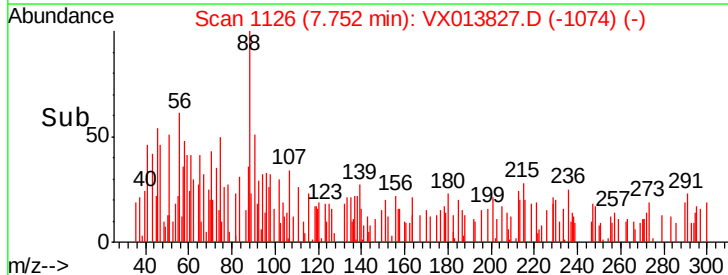
600

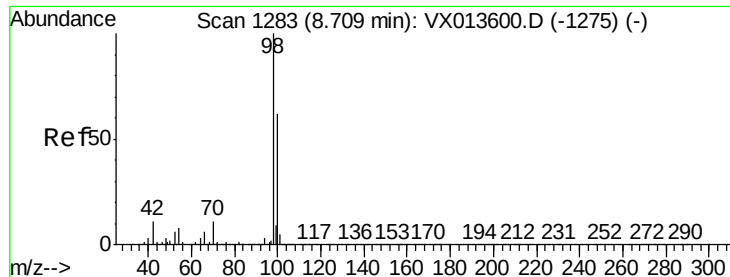
400

200

0

Time-->





#50

Toluene-d8

Concen: 49.411 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

Instrument :

MSVOA_X

ClientSampleId :

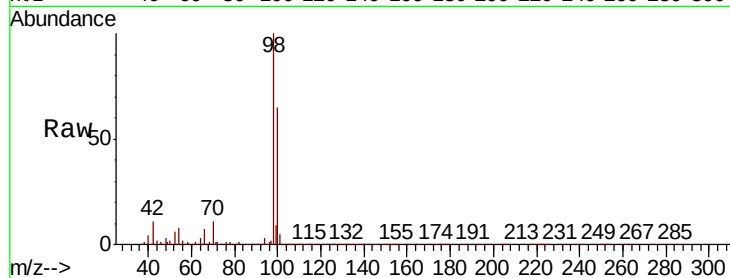
RE125D3-20191205

Tot Ion: 98 Resp: 1103469

Ion Ratio Lower Upper

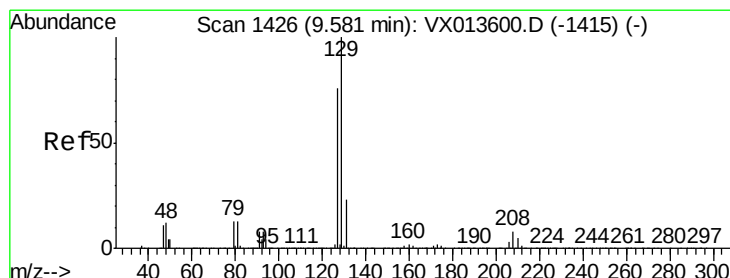
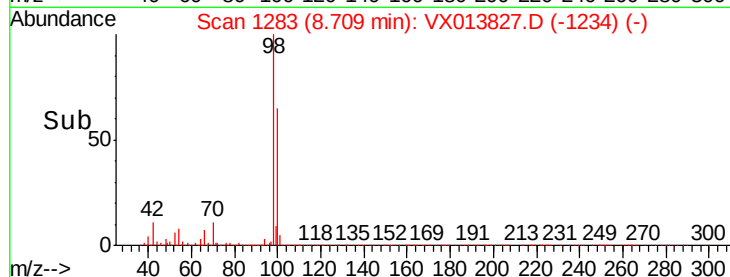
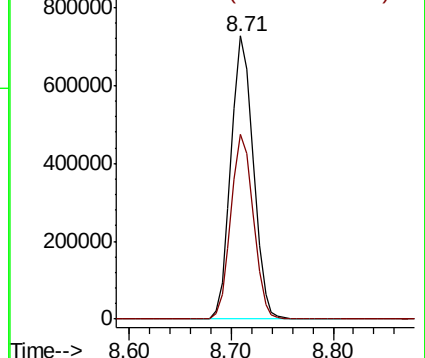
98 100

100 65.5 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 4.902 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013827.D

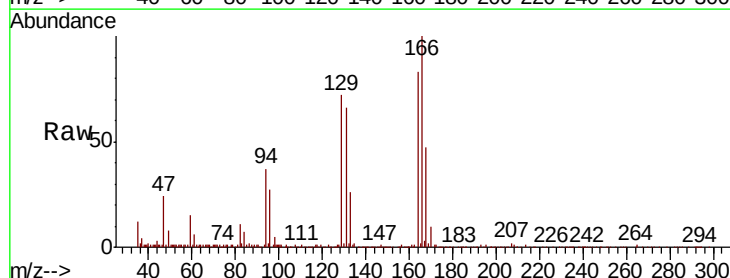
Acq: 07 Dec 2019 02:44

Tgt Ion:129 Resp: 32650

Ion Ratio Lower Upper

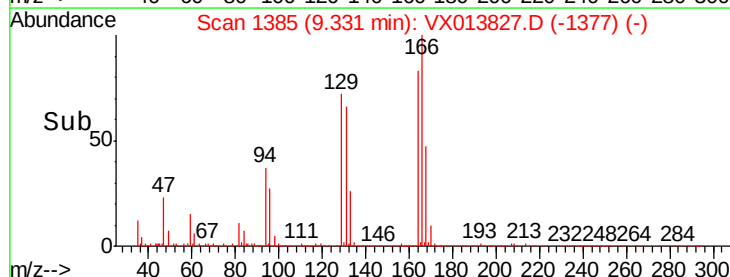
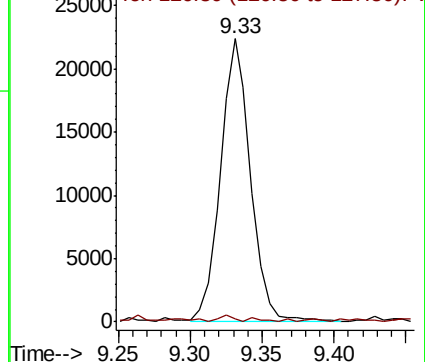
129 100

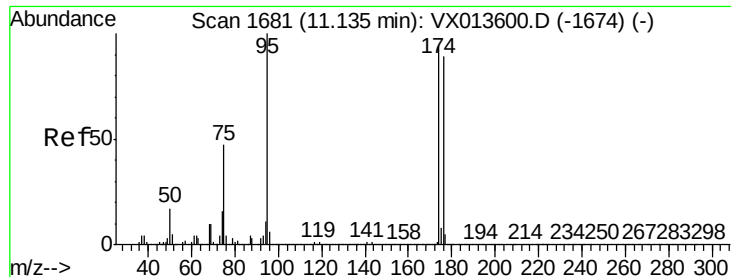
127 1.2 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.266 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20191205

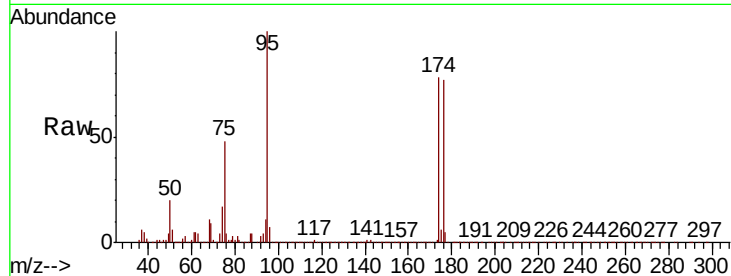
Tot Ion: 95 Resp: 364533

Ion Ratio Lower Upper

95 100

174 88.0 0.0 180.0

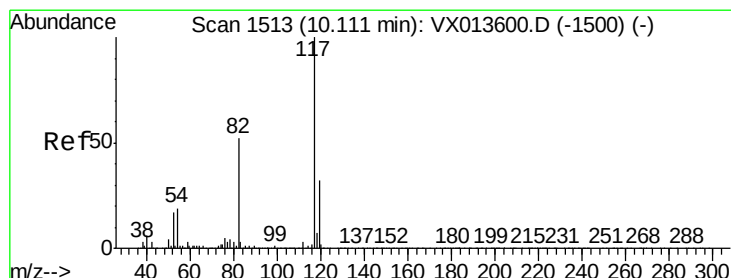
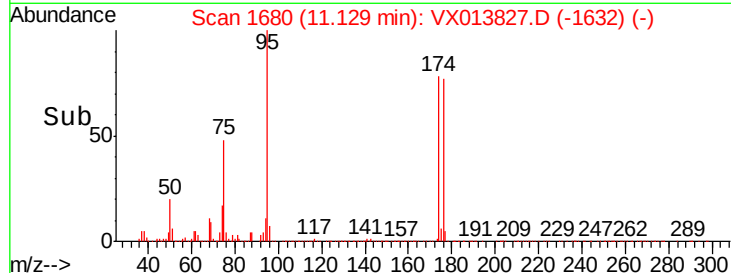
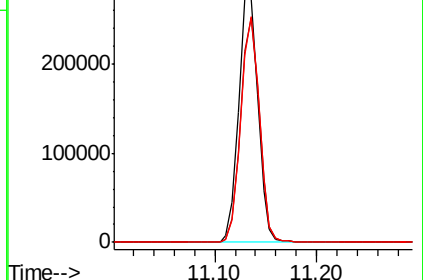
176 87.4 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013600.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013600.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

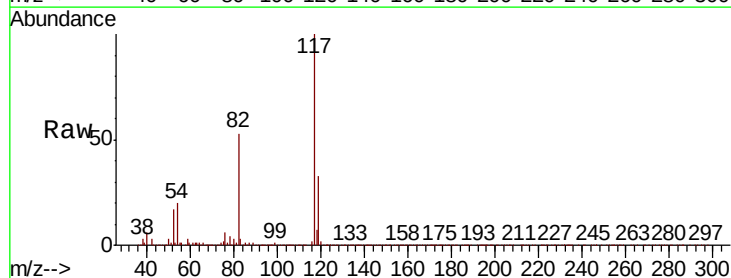
Tgt Ion: 117 Resp: 830012

Ion Ratio Lower Upper

117 100

82 52.7 41.8 62.8

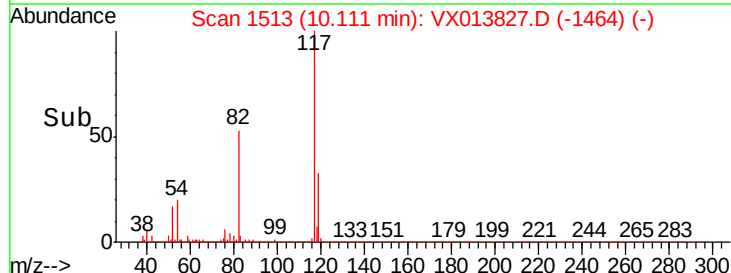
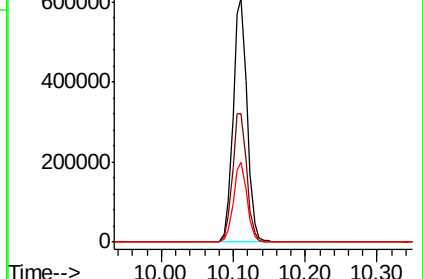
119 32.7 25.8 38.8

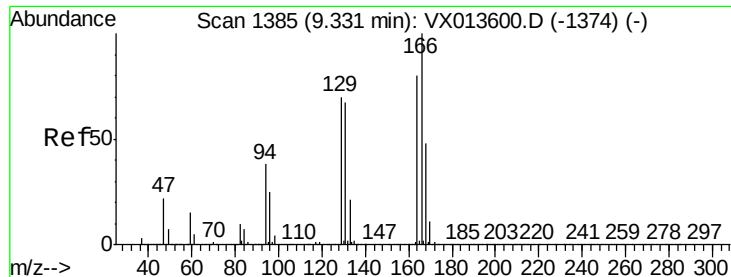


Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

Ion 82.00 (81.70 to 82.70): VX013600.D (-1500) (-)

Ion 118.90 (118.60 to 119.60): VX013600.D (-1500) (-)





#64

Tetrachloroethene

Concen: 5.795 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20191205

Tot Ion:164 Resp: 35868

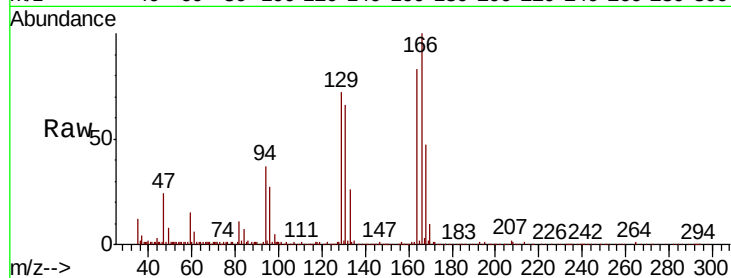
Ion Ratio Lower Upper

164 100

166 120.3 99.7 149.5

129 85.9 70.1 105.1

131 78.5 66.9 100.3

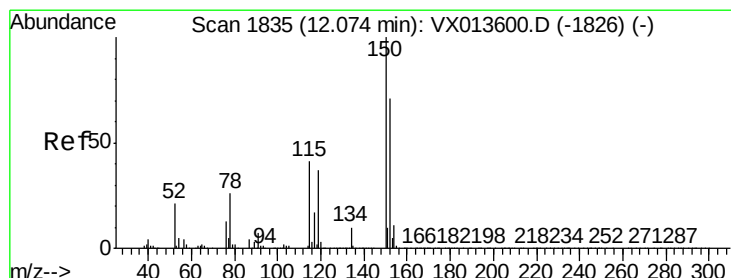
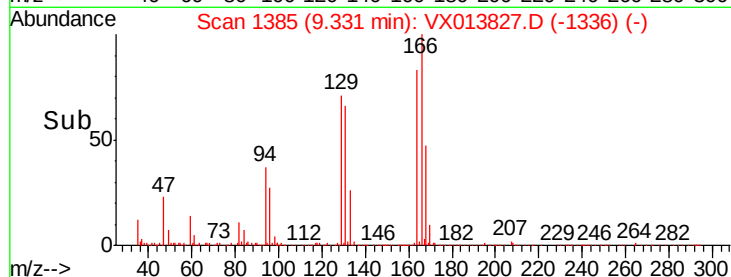
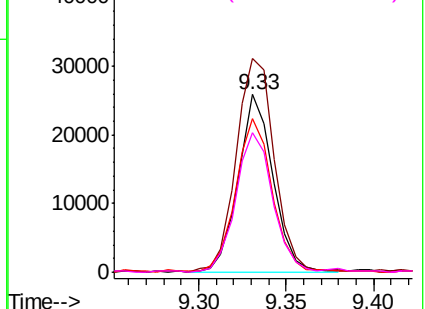


Abundance Ion 163.80 (163.50 to 164.50): V

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: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

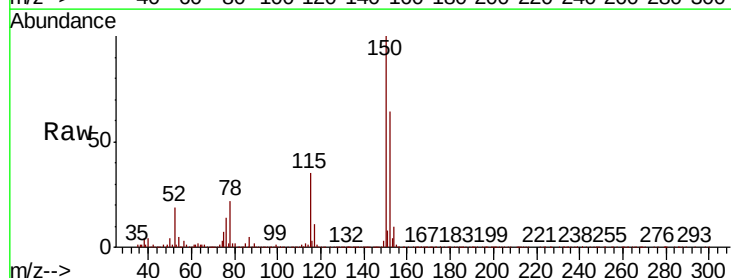
Tgt Ion:152 Resp: 361402

Ion Ratio Lower Upper

152 100

115 54.5 38.4 115.1

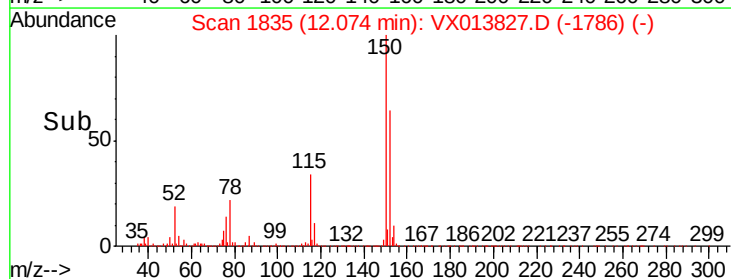
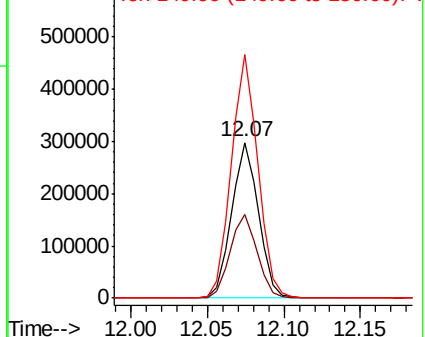
150 155.0 0.0 346.8

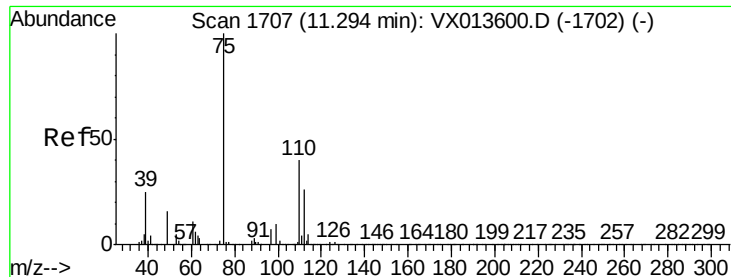


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.446 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

Instrument :

MSVOA_X

ClientSampleId :

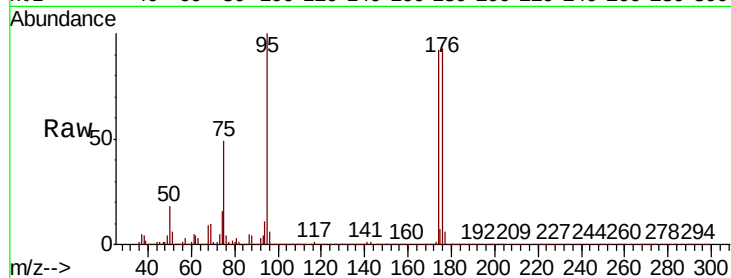
RE125D3-20191205

Tot Ion: 75 Resp: 174327

Ion Ratio Lower Upper

75 100

77 1.9 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

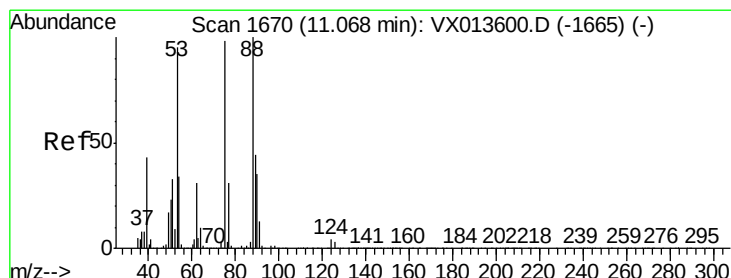
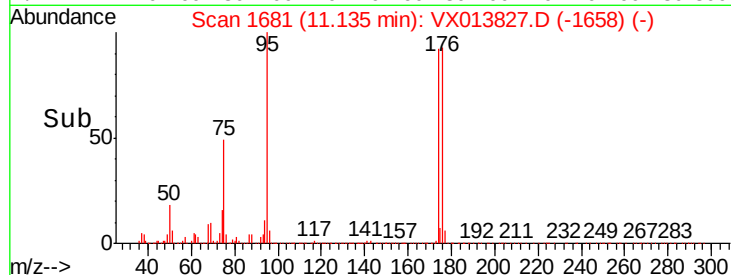
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 58.673 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013827.D

Acq: 07 Dec 2019 02:44

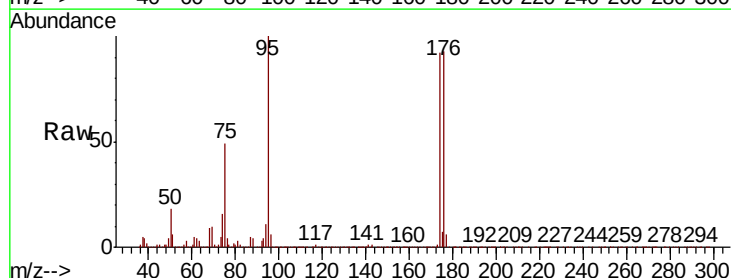
Tgt Ion: 75 Resp: 174327

Ion Ratio Lower Upper

75 100

53 0.4 78.2 117.2#

89 0.0 35.4 53.2#



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

150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20

