

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX013861.D
 Acq On : 09 Dec 2019 19:17
 Operator : JC/SP
 Sample : K6185-07DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20191205DL

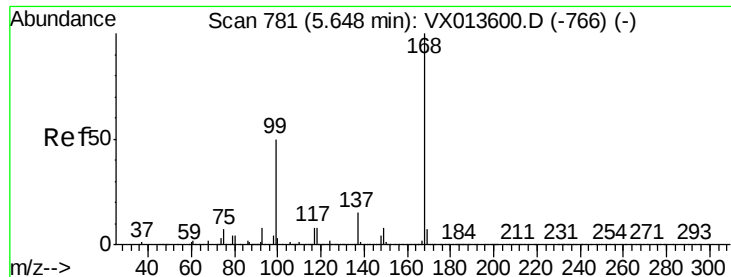
Quant Time: Dec 12 08:12:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	619494	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	941610	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	847254	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	365792	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	343600	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
35) Dibromofluoromethane	5.49	113	282756	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
50) Toluene-d8	8.71	98	1108800	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
62) 4-Bromofluorobenzene	11.14	95	368195	45.02	ug/l	0.00
Spiked Amount			Recovery	=	90.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.58	64	6550	1.322	ug/l #	52
9) 1,1,2-Trichlorotrifluoroet	2.37	101	210907	35.708	ug/l	99
11) Tert butyl alcohol	3.01	59	22438	12.641	ug/l #	80
12) 1,1-Dichloroethene	2.37	96	2052	0.348	ug/l	97
13) Acrolein	2.30	56	287	6.240	ug/l #	40
16) Acetone	2.43	43	10272	2.893	ug/l	94
20) Methylene Chloride	2.84	84	3434	0.503	ug/l #	88
25) 2-Butanone	4.68	43	3414	0.647	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	6156	0.835	ug/l	96
29) Tetrahydrofuran	5.14	42	2349	0.722	ug/l #	60
36) 1,1-Dichloropropene	5.65	75	42347	4.954	ug/l #	52
38) Carbon Tetrachloride	5.65	117	53411	6.777	ug/l #	16
44) Trichloroethene	7.21	130	153479	21.482	ug/l	97
49) 1,4-Dioxane	7.75	88	1133	6.599	ug/l #	68
60) Dibromochloromethane	9.33	129	14400	2.129	ug/l #	13
64) Tetrachloroethene	9.33	164	17023	2.694	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	179299	21.793	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	179299	59.622	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

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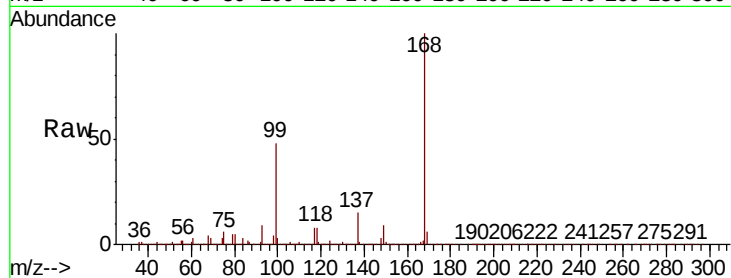
RE131D2-20191205DL

Tot Ion:168 Resp: 619494

Ion Ratio Lower Upper

168 100

99 48.3 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

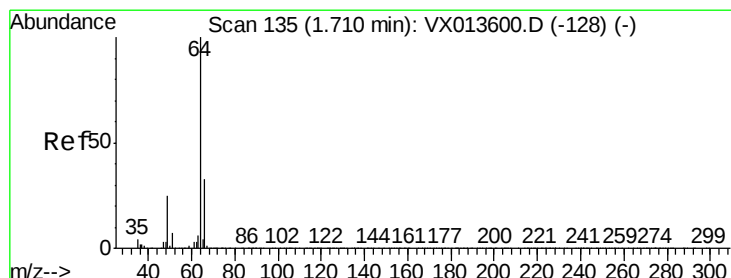
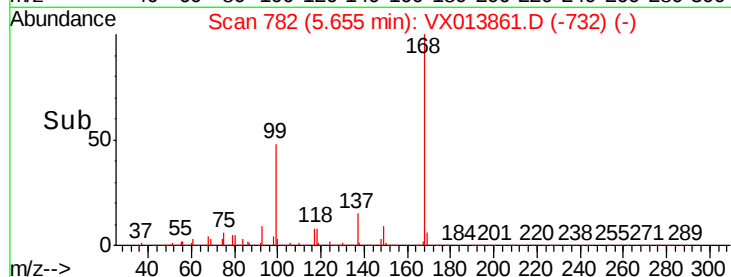
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 1.322 ug/l

RT: 1.58 min Scan# 113

Delta R.T. -0.13 min

Lab File: VX013861.D

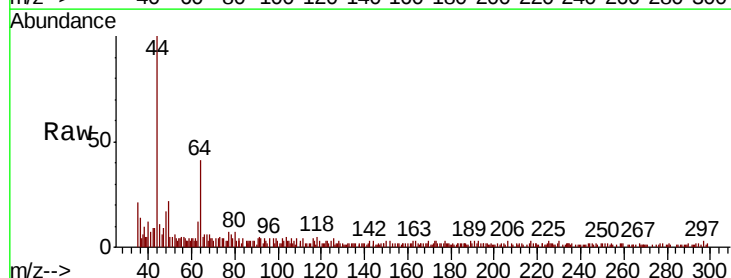
Acq: 09 Dec 2019 19:17

Tgt Ion: 64 Resp: 6550

Ion Ratio Lower Upper

64 100

66 6.1 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

4000

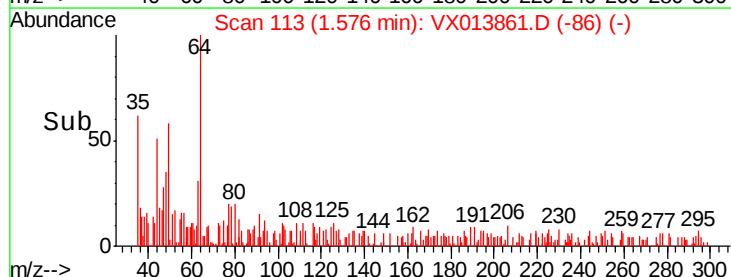
3000

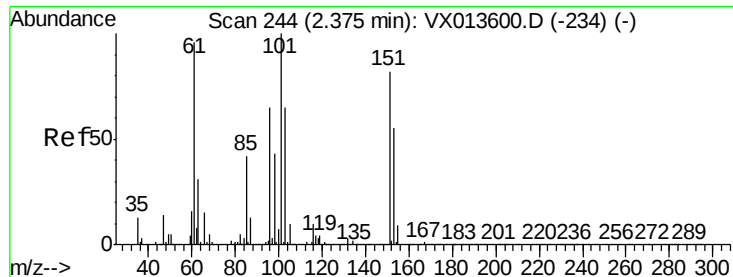
2000

1000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 35.708 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20191205DL

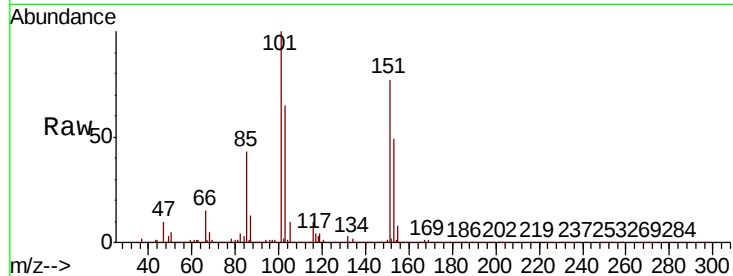
Tot Ion:101 Resp: 210907

Ion Ratio Lower Upper

101 100

85 42.1 33.9 50.9

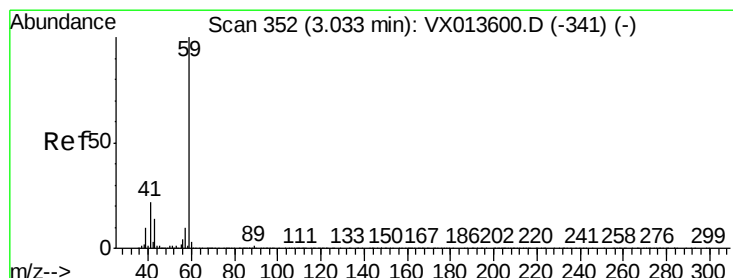
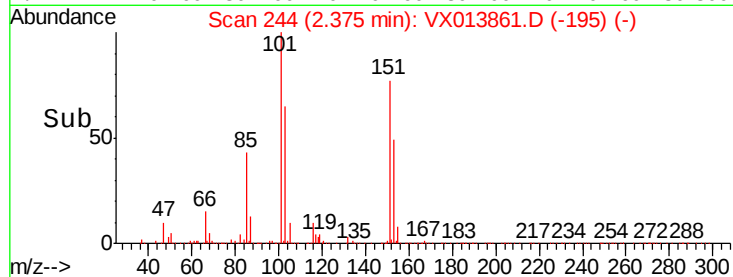
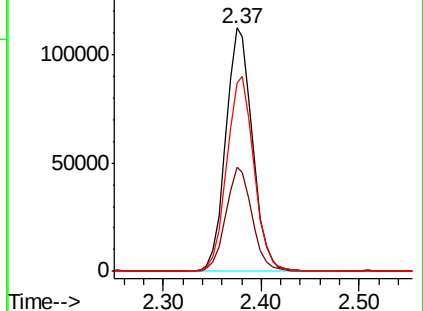
151 81.9 64.2 96.2



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: 12.641 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013861.D

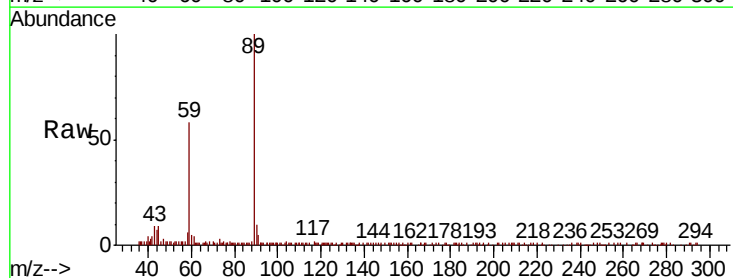
Acq: 09 Dec 2019 19:17

Tgt Ion: 59 Resp: 22438

Ion Ratio Lower Upper

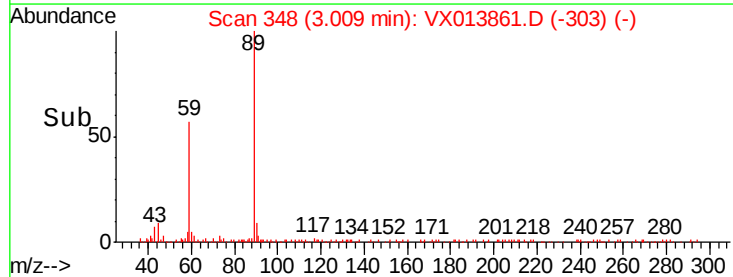
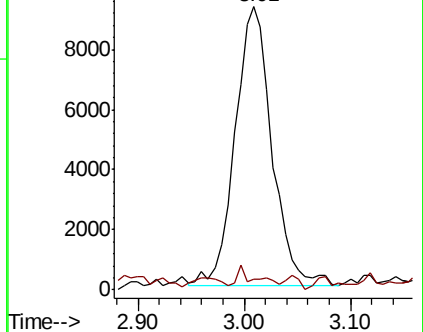
59 100

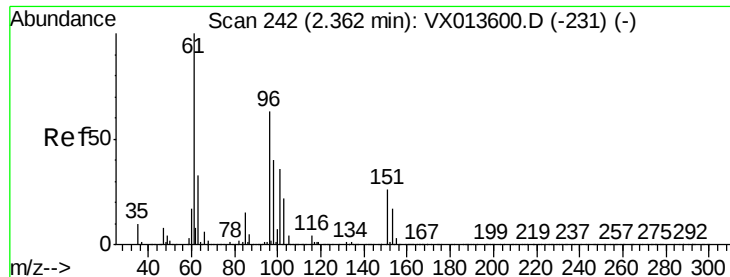
57 2.3 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.348 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20191205DL

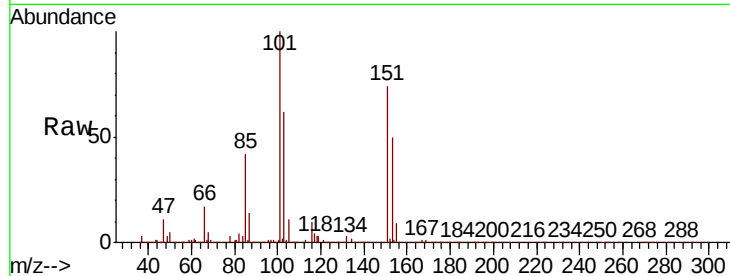
Tot Ion: 96 Resp: 2052

Ion Ratio Lower Upper

96 100

61 158.0 126.6 190.0

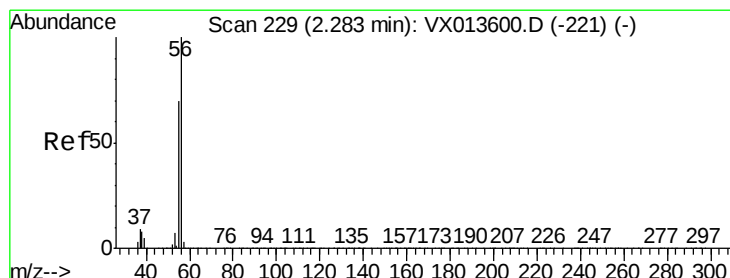
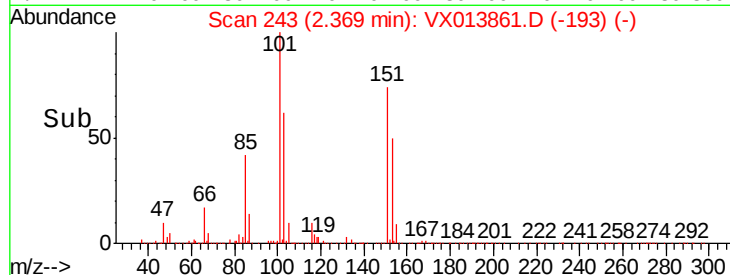
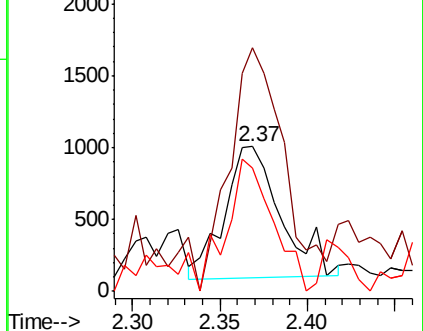
98 70.5 50.6 76.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 6.240 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX013861.D

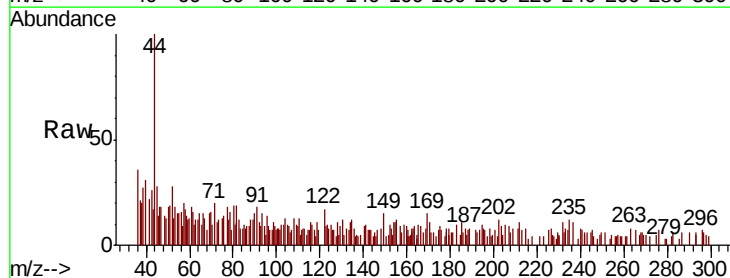
Acq: 09 Dec 2019 19:17

Tgt Ion: 56 Resp: 287

Ion Ratio Lower Upper

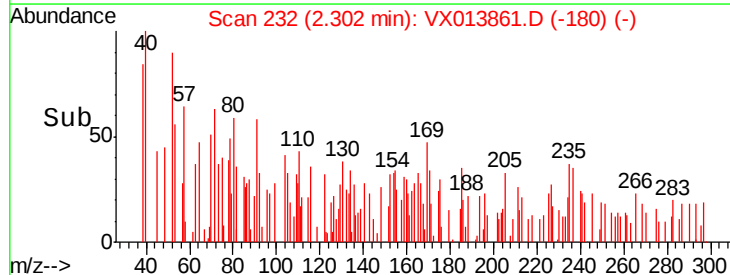
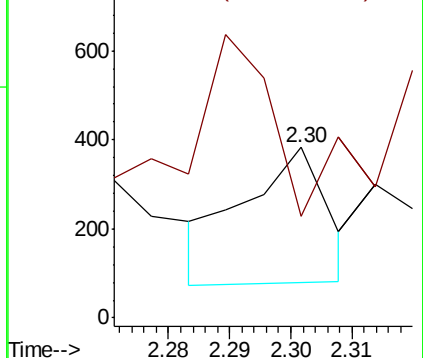
56 100

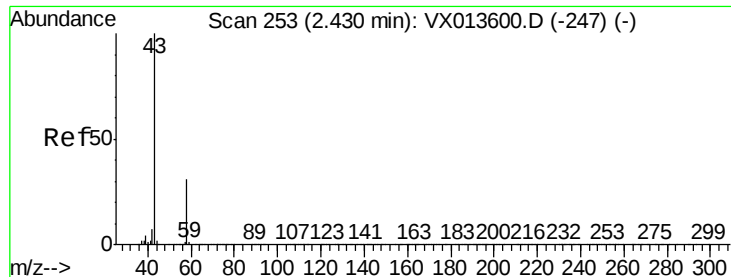
55 119.9 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.893 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

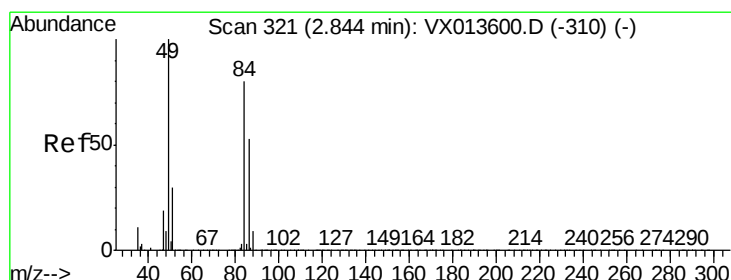
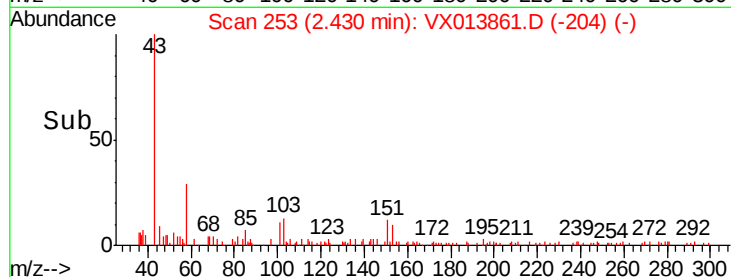
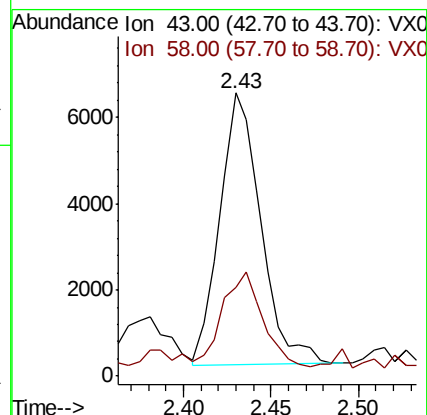
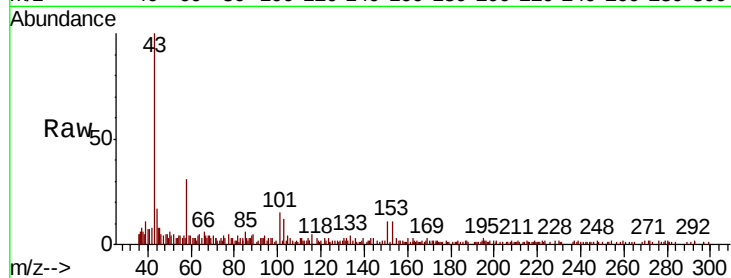
RE131D2-20191205DL

Tot Ion: 43 Resp: 10272

Ion Ratio Lower Upper

43 100

58 27.6 24.6 36.8



#20

Methylene Chloride

Concen: 0.503 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

Tgt Ion: 84 Resp: 3434

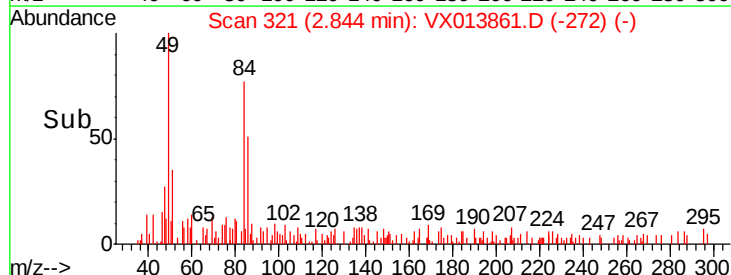
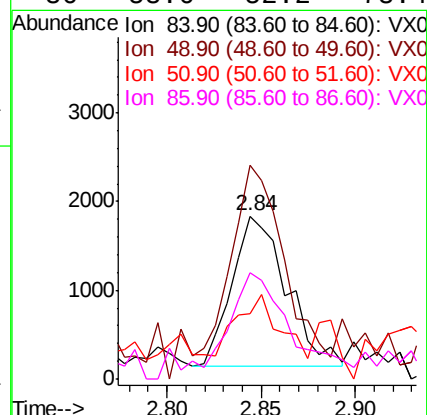
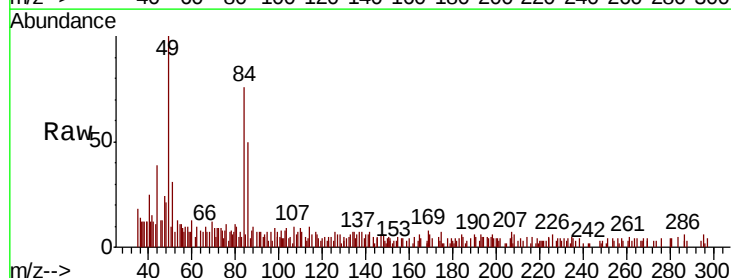
Ion Ratio Lower Upper

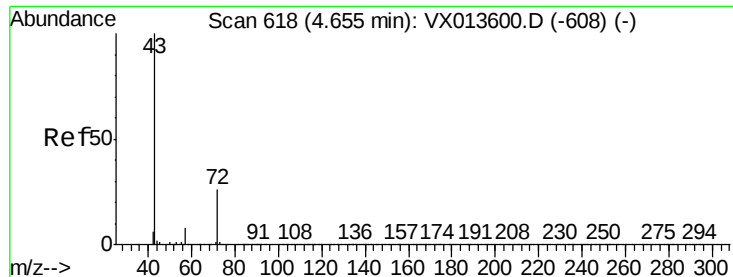
84 100

49 110.8 99.7 149.5

51 27.3 29.9 44.9#

86 58.6 52.2 78.4

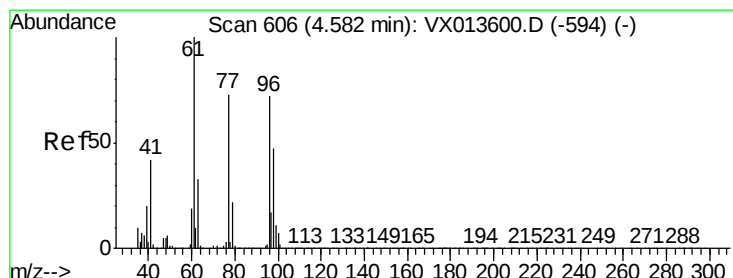
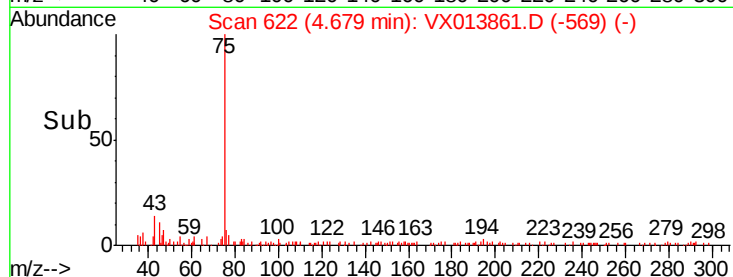
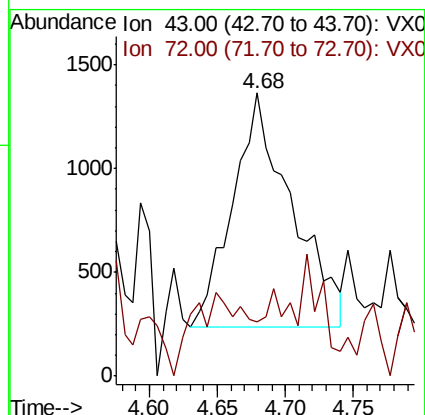
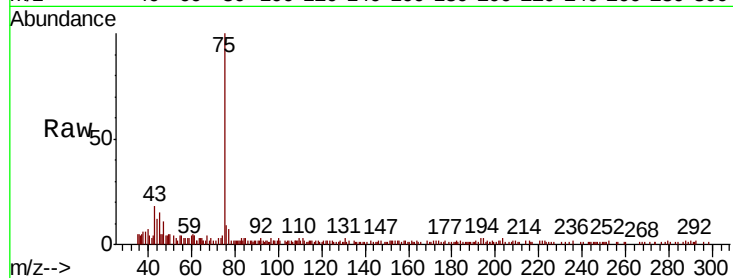




#25
2-Butanone
Concen: 0.647 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX013861.D
Acq: 09 Dec 2019 19:17

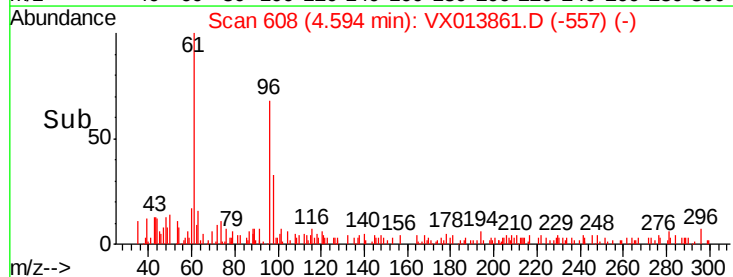
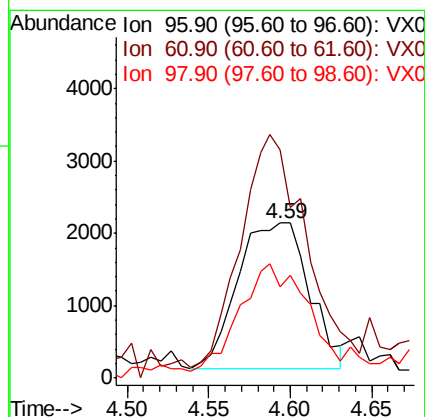
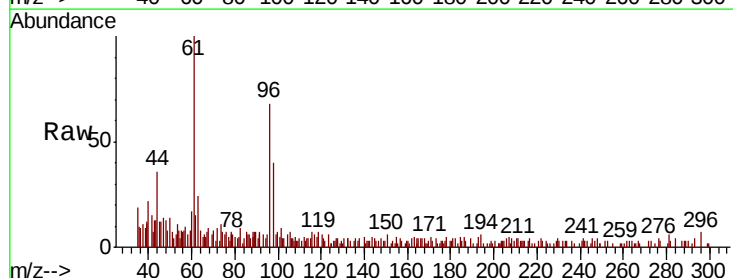
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20191205DL

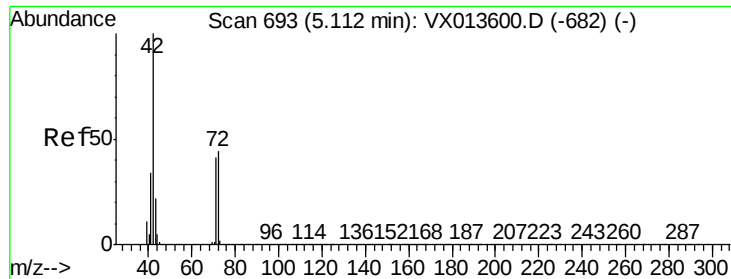
Tot Ion: 43 Resp: 3414
Ion Ratio Lower Upper
43 100
72 0.0 20.6 31.0#



#27
cis-1,2-Dichloroethene
Concen: 0.835 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX013861.D
Acq: 09 Dec 2019 19:17

Tgt Ion: 96 Resp: 6156
Ion Ratio Lower Upper
96 100
61 144.5 0.0 286.4
98 72.4 0.0 127.4





#29

Tetrahydrofuran

Concen: 0.722 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20191205DL

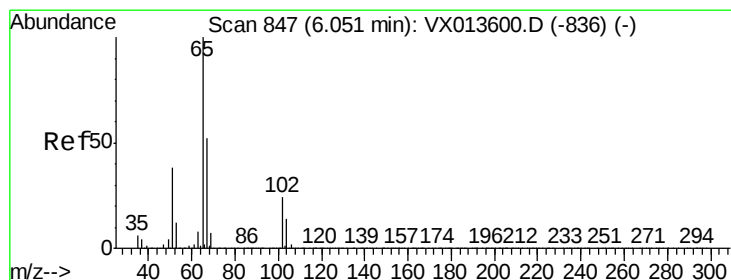
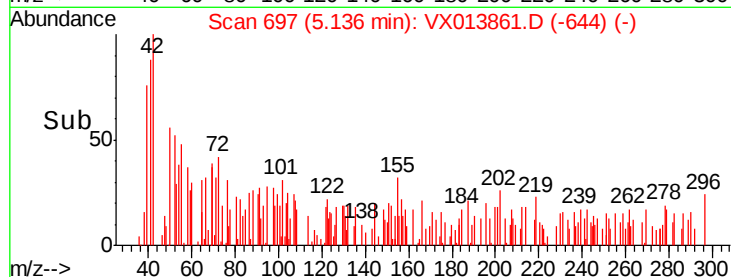
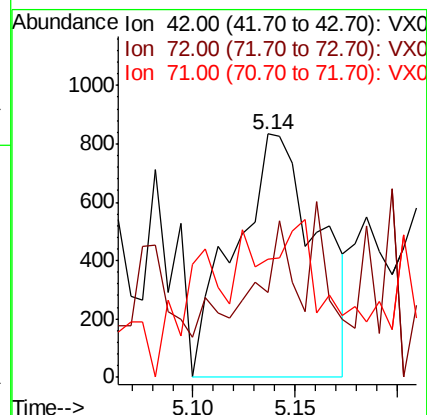
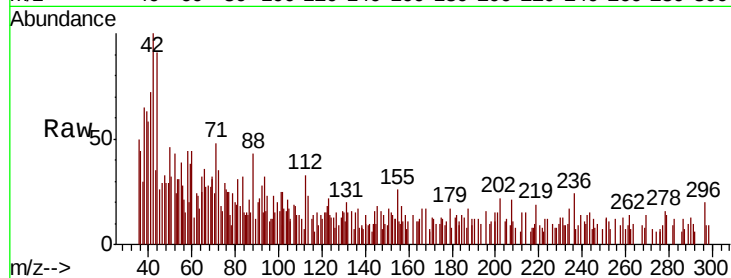
Tot Ion: 42 Resp: 2349

Ion Ratio Lower Upper

42 100

72 21.9 36.3 54.5#

71 12.9 33.2 49.8#



#33

1,2-Dichloroethane-d4

Concen: 47.782 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013861.D

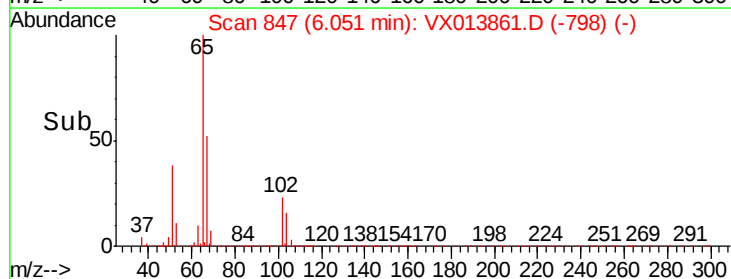
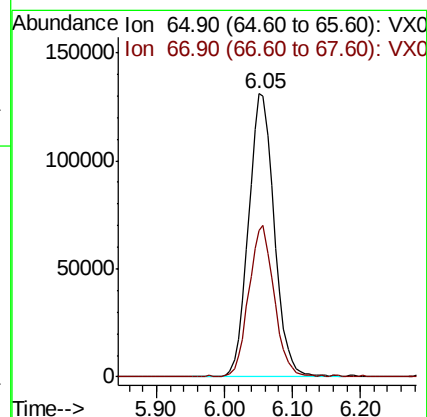
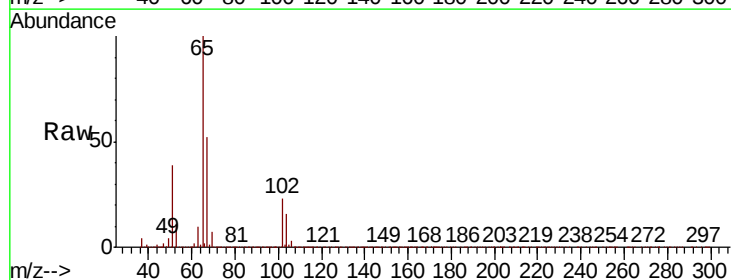
Acq: 09 Dec 2019 19:17

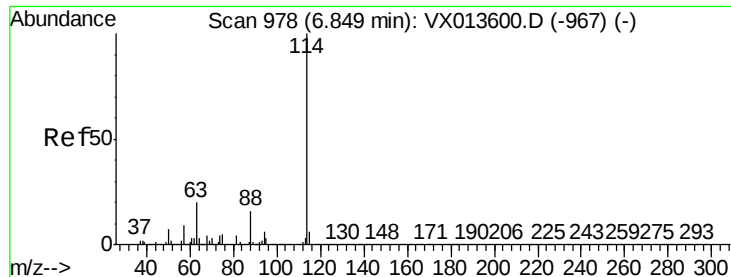
Tgt Ion: 65 Resp: 343600

Ion Ratio Lower Upper

65 100

67 52.6 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: VX013861.D

Acq: 09 Dec 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

RE131D2-20191205DL

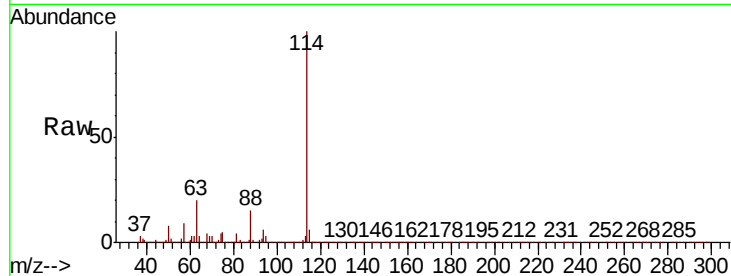
Tot Ion:114 Resp: 941610

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

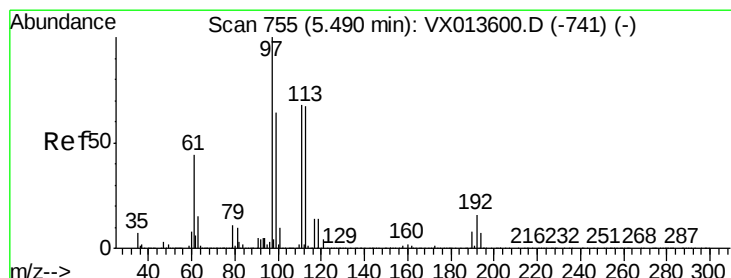
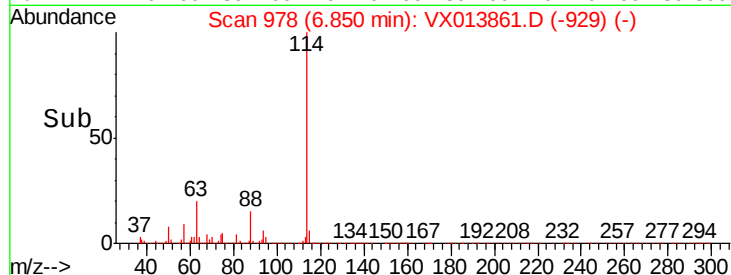
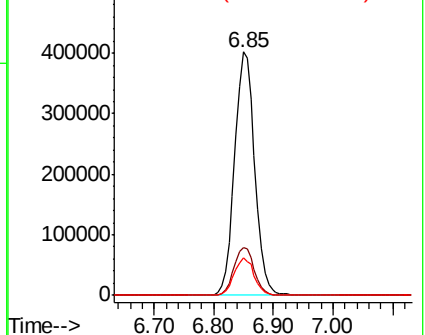
88 15.2 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.574 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

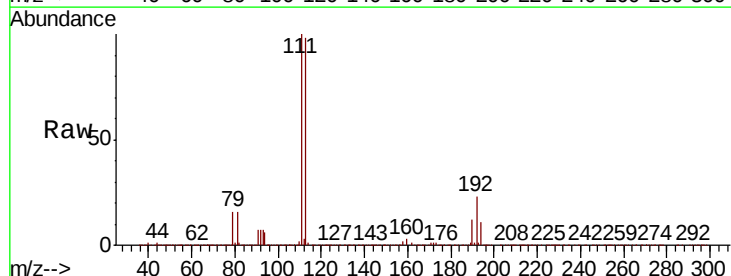
Tgt Ion:113 Resp: 282756

Ion Ratio Lower Upper

113 100

111 102.2 83.6 125.4

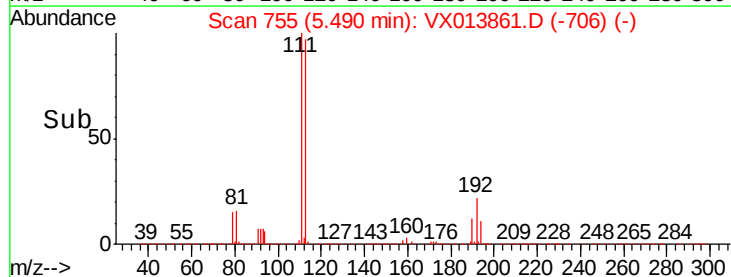
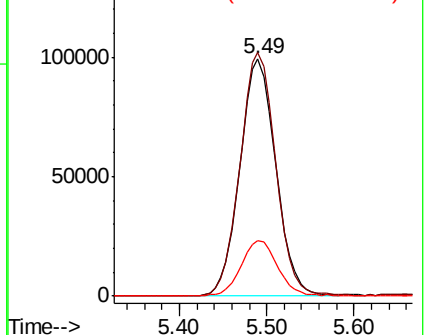
192 24.1 19.2 28.8

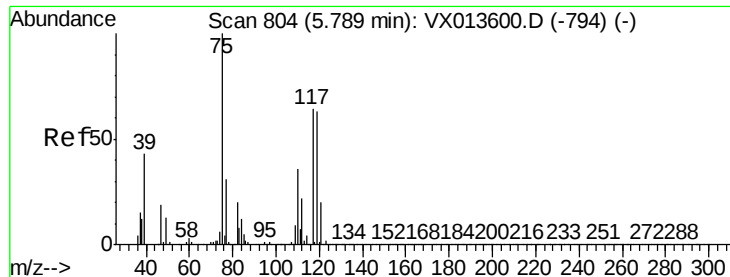


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

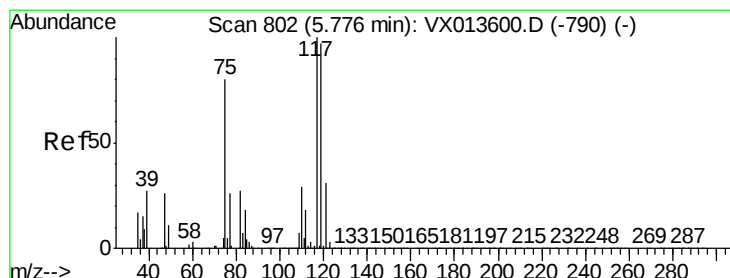
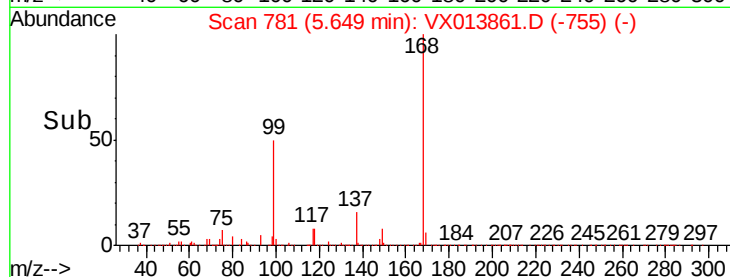
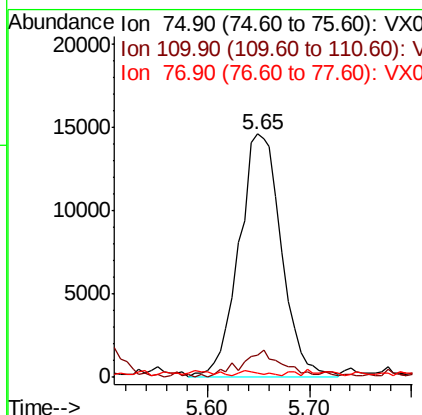
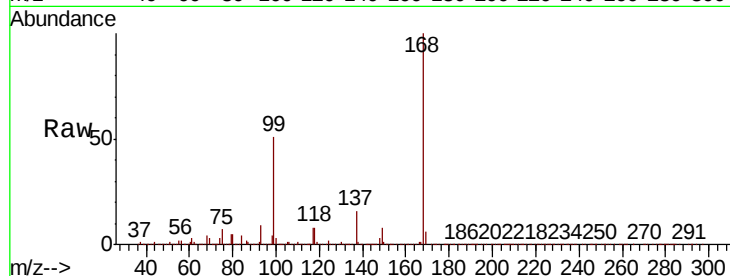




#36
 1,1-Dichloropropene
 Concen: 4.954 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013861.D
 Acq: 09 Dec 2019 19:17

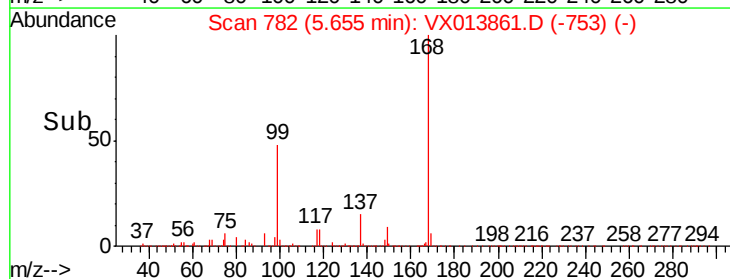
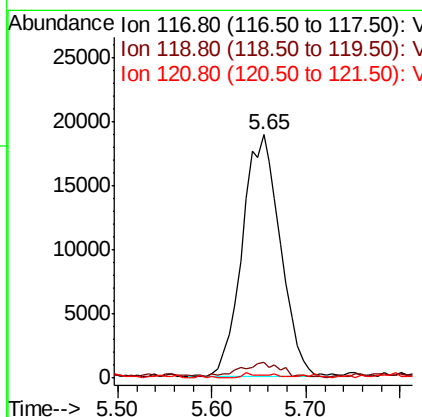
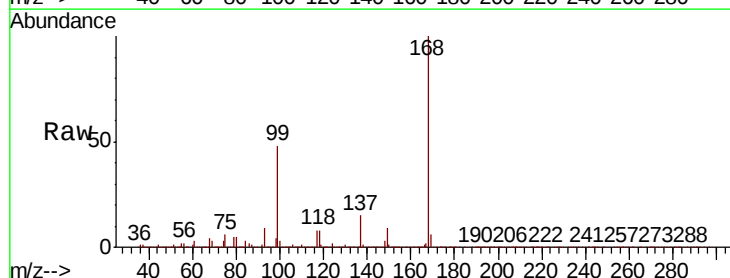
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D2-20191205DL

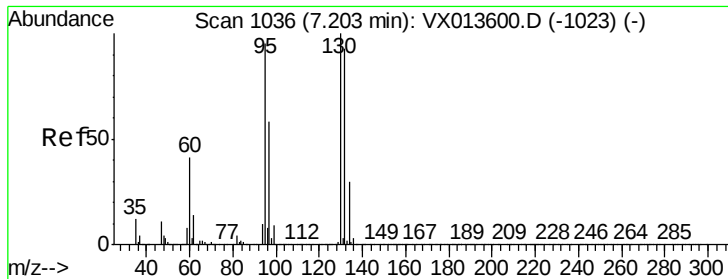
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	18.1	54.1#
77	1.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.777 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013861.D
 Acq: 09 Dec 2019 19:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	77.5	116.3#
121	1.4	25.0	37.6#





#44

Trichloroethene

Concen: 21.482 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

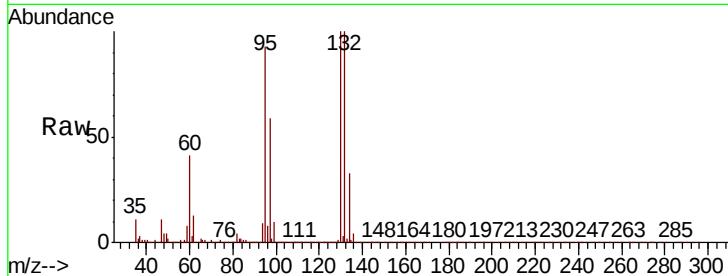
RE131D2-20191205DL

Tot Ion:130 Resp: 153479

Ion Ratio Lower Upper

130 100

95 92.8 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

80000

60000

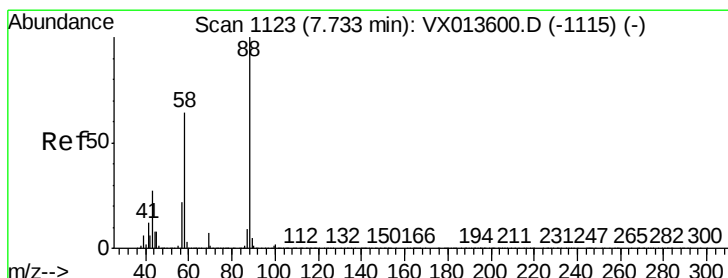
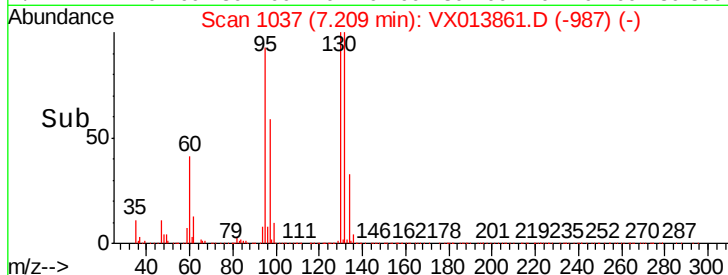
40000

20000

0

7.10 7.20 7.30

Time-->



#49

1,4-Dioxane

Concen: 6.599 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

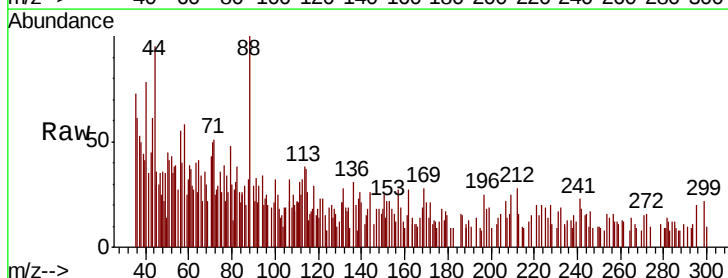
Tgt Ion: 88 Resp: 1133

Ion Ratio Lower Upper

88 100

43 34.1 25.8 38.6

58 31.5 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

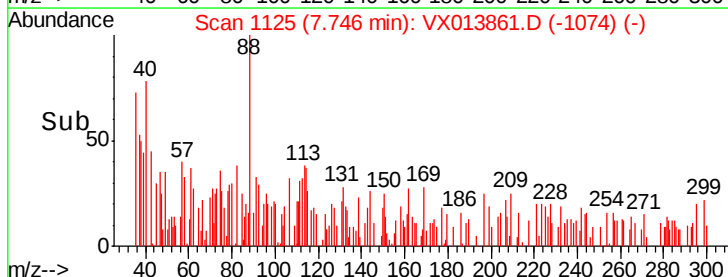
400

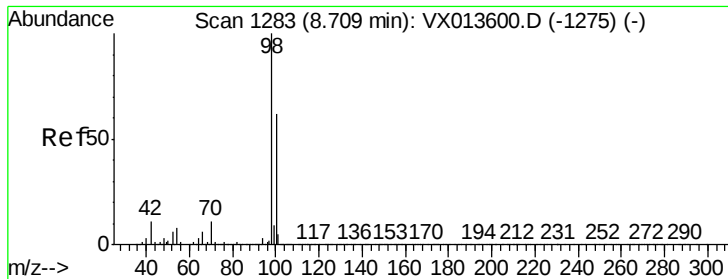
200

0

7.70 7.75 7.80

Time-->





#50

Toluene-d8

Concen: 48.889 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

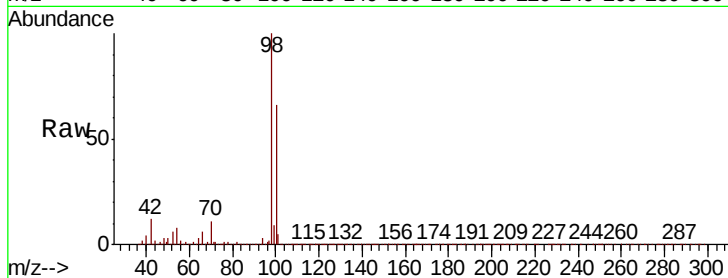
RE131D2-20191205DL

Tot Ion: 98 Resp: 1108800

Ion Ratio Lower Upper

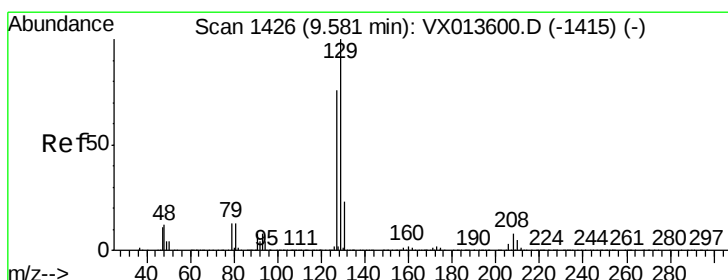
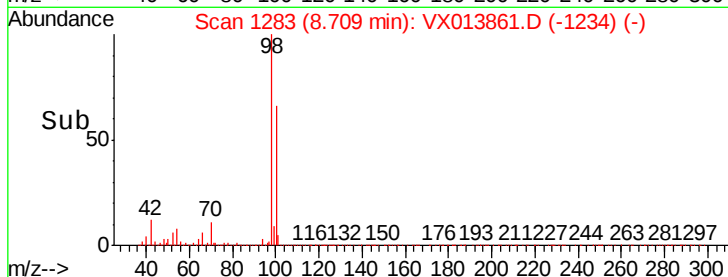
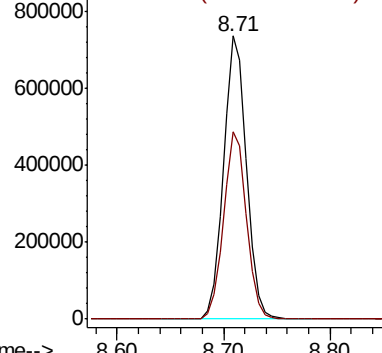
98 100

100 66.2 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: 2.129 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013861.D

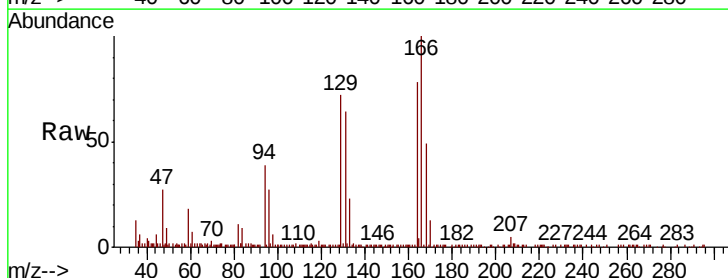
Acq: 09 Dec 2019 19:17

Tgt Ion:129 Resp: 14400

Ion Ratio Lower Upper

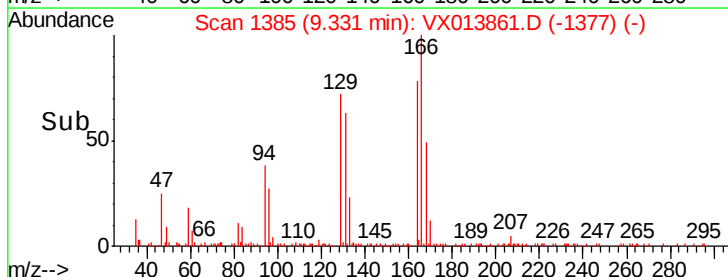
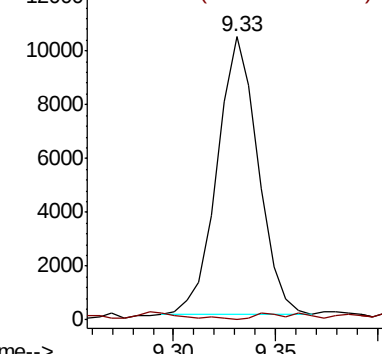
129 100

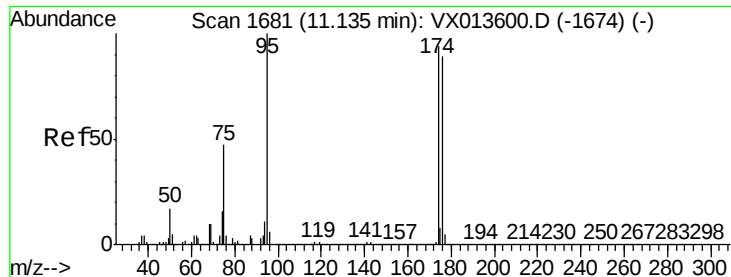
127 1.6 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

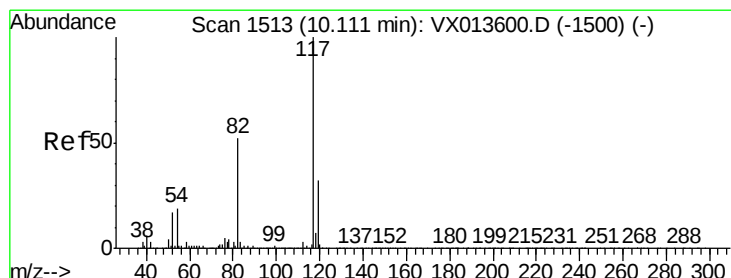
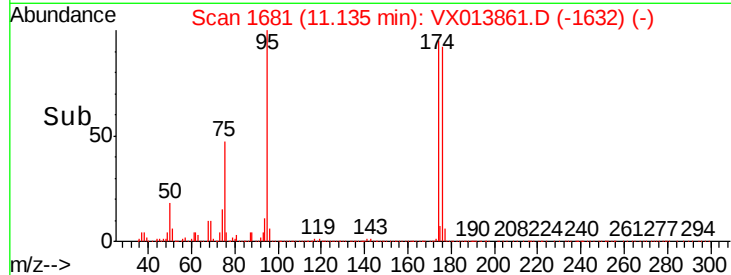
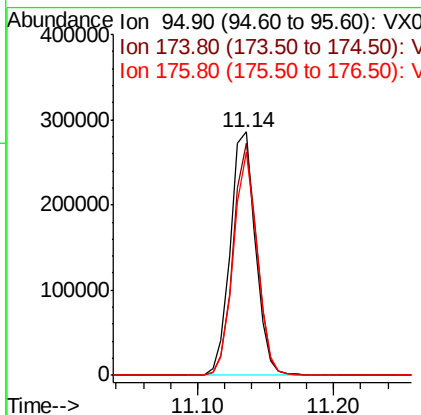
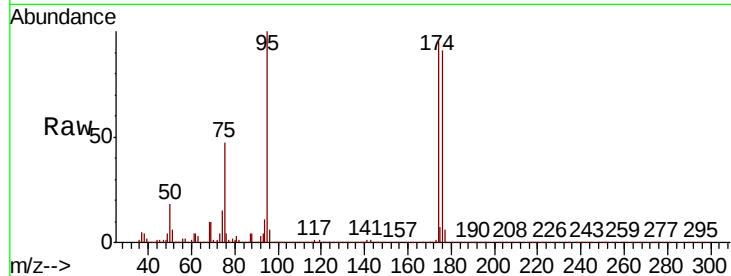




#62
4-Bromofluorobenzene
Concen: 45.020 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013861.D
Acq: 09 Dec 2019 19:17

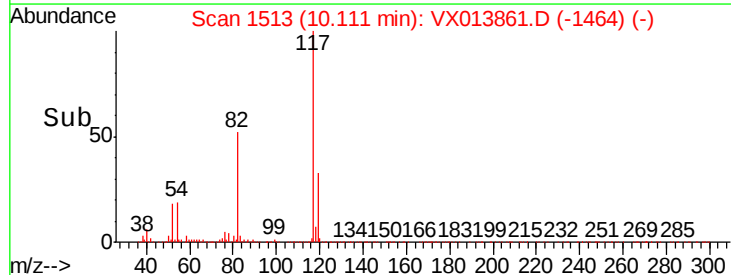
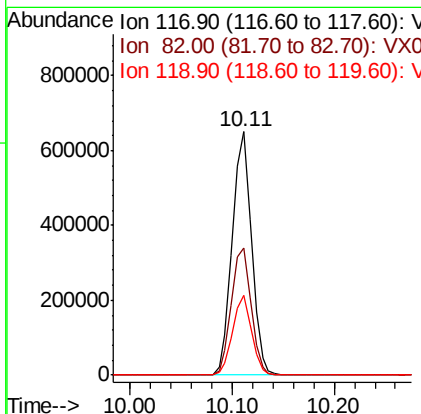
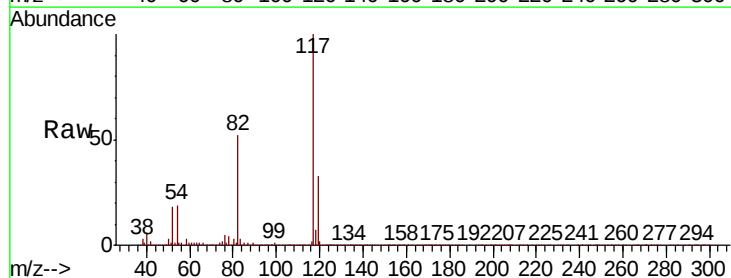
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20191205DL

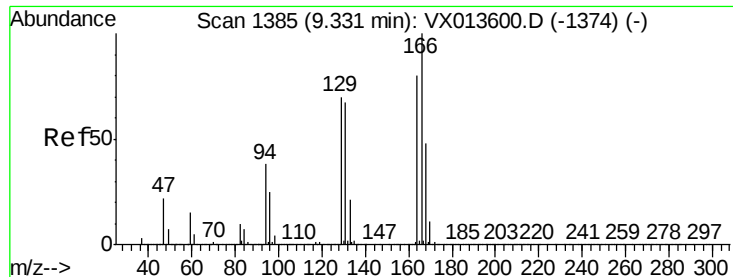
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.7	0.0	180.0
176	86.9	0.0	173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013861.D
Acq: 09 Dec 2019 19:17

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.0	41.8	62.8
119	32.6	25.8	38.8

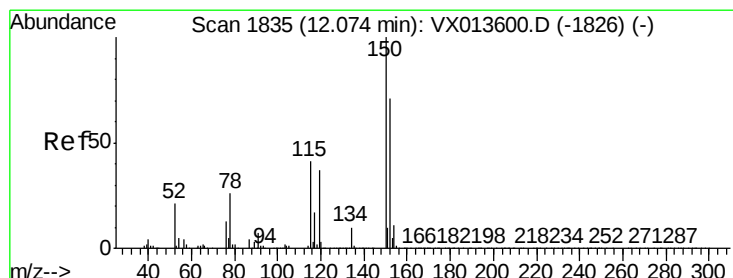
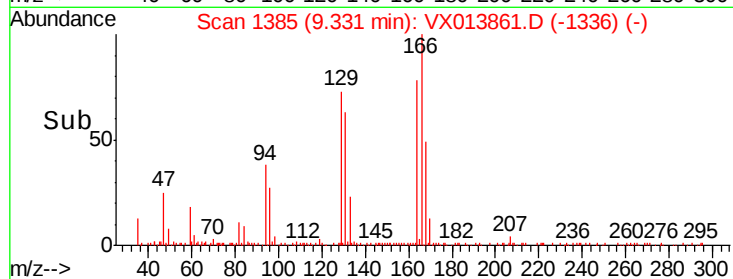
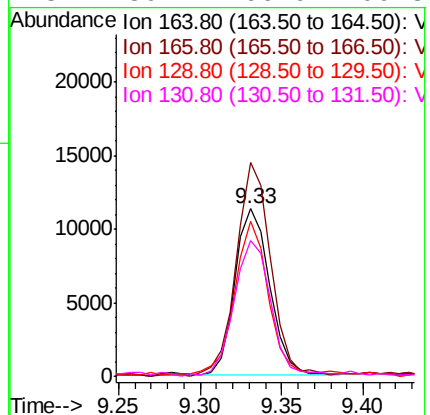
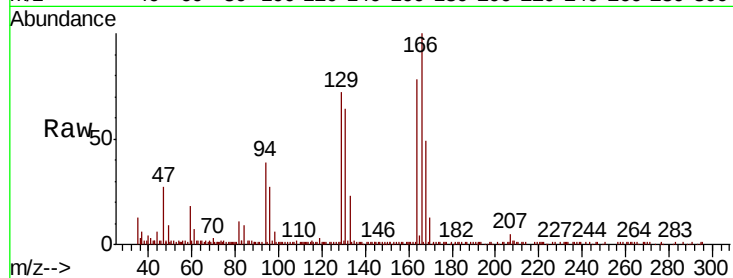




#64
Tetrachloroethene
Concen: 2.694 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013861.D
Acq: 09 Dec 2019 19:17

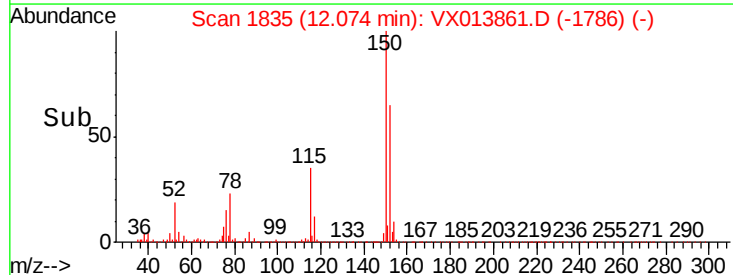
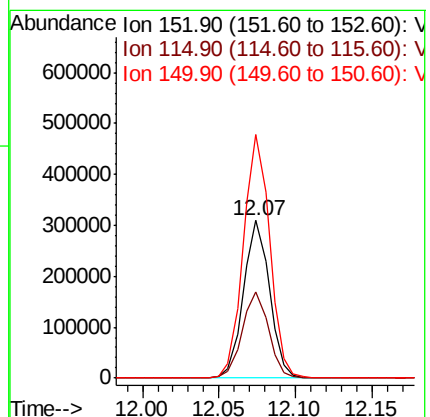
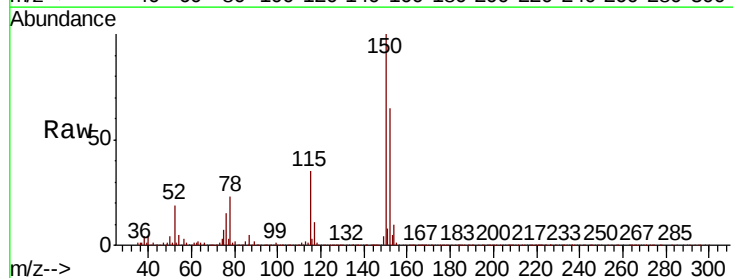
Instrument :
MSVOA_X
ClientSampleId :
RE131D2-20191205DL

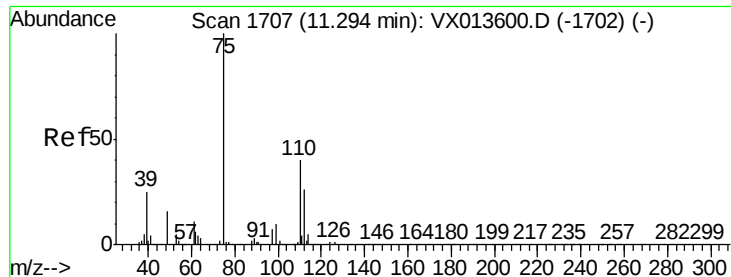
Tot Ion:164 Resp: 17023
Ion Ratio Lower Upper
164 100
166 128.2 99.7 149.5
129 91.0 70.1 105.1
131 80.2 66.9 100.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013861.D
Acq: 09 Dec 2019 19:17

Tgt Ion:152 Resp: 365792
Ion Ratio Lower Upper
152 100
115 55.5 38.4 115.1
150 155.8 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 21.793 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

Instrument :

MSVOA_X

ClientSampleId :

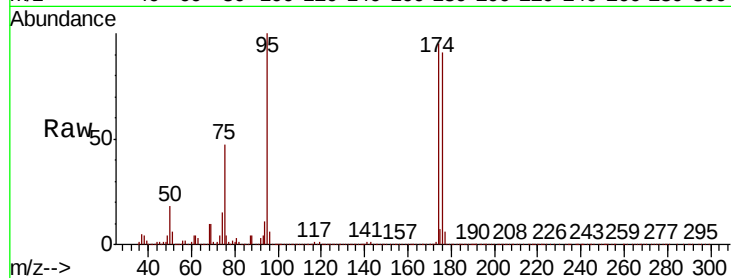
RE131D2-20191205DL

Tot Ion: 75 Resp: 179299

Ion Ratio Lower Upper

75 100

77 1.1 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

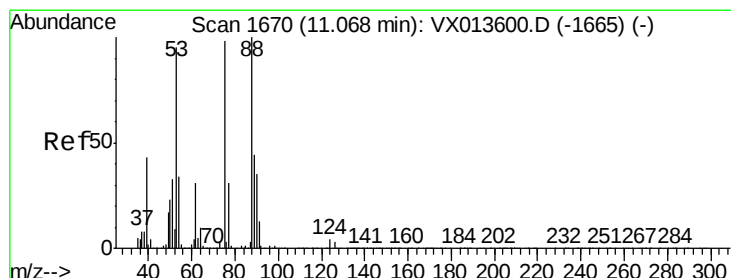
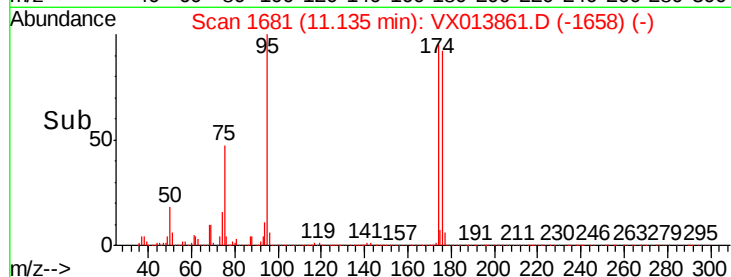
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 59.622 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013861.D

Acq: 09 Dec 2019 19:17

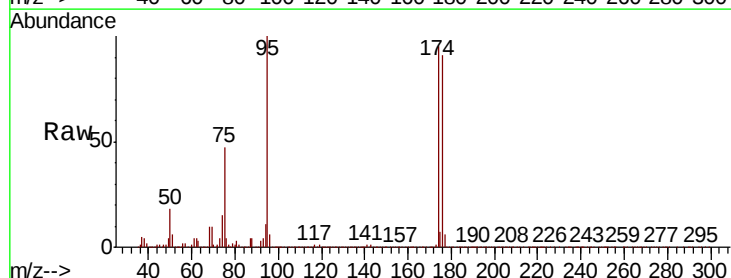
Tgt Ion: 75 Resp: 179299

Ion Ratio Lower Upper

75 100

53 0.1 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

