

Data File : VL033860.D
Acq On : 30 May 2019 7:36
Operator : SY/AP
Sample : K3067-09
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

Quant Time: May 30 08:10:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	707521	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1625414	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1640834	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1329850 10.00 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.00%

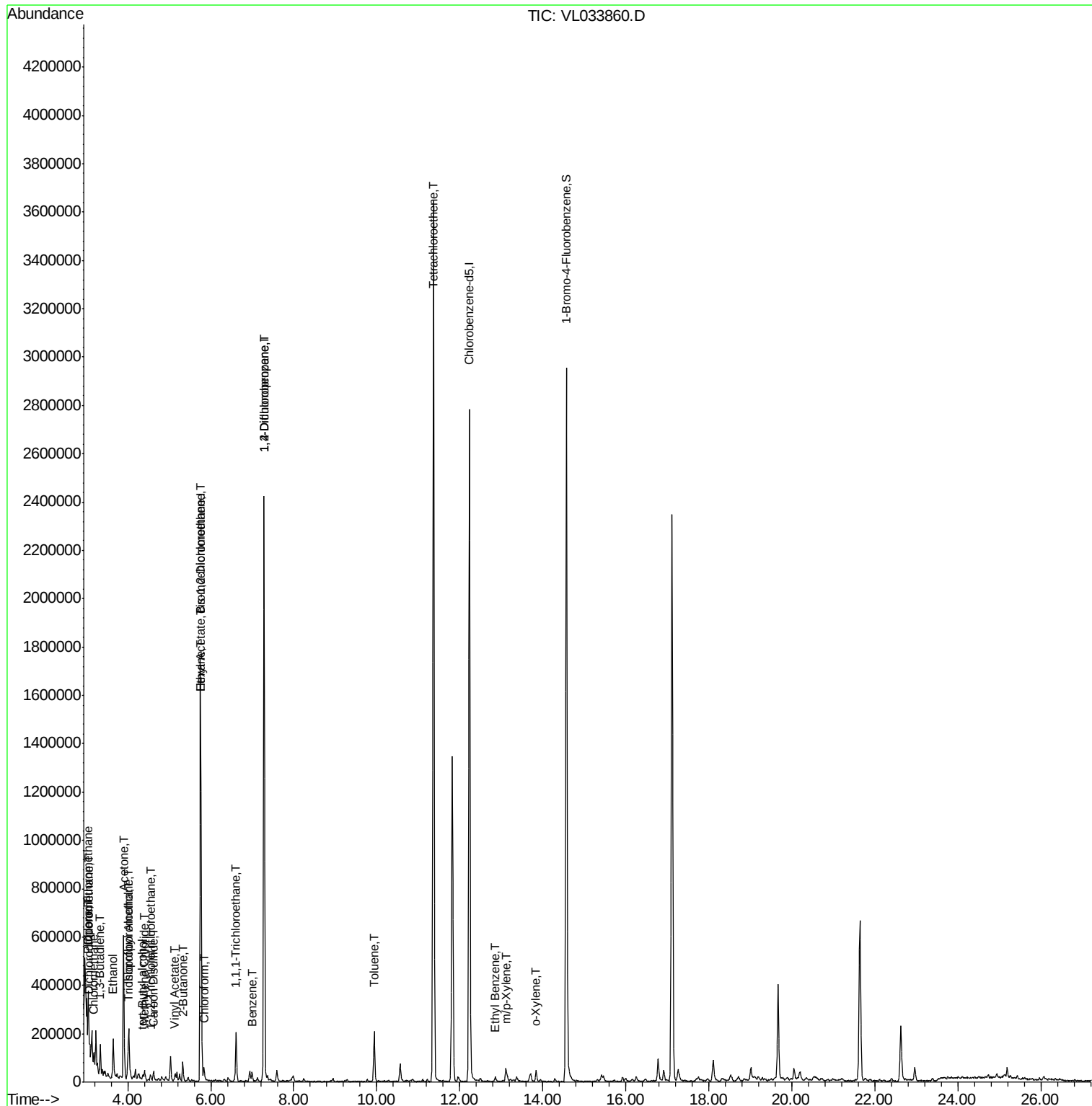
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	3.07	85	13113	0.088	ppbv #	84
3) Chlorodifluoromethane	3.06	51	2577	0.032	ppbv	96
4) Chloromethane	3.17	50	6335	0.137	ppbv #	43
9) Propene	3.03	41	2948	0.086	ppbv #	60
11) Trichlorofluoromethane	4.00	101	49537	0.348	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.54	101	4210	0.042	ppbv #	13
13) Ethanol	3.65	45	137117	12.307	ppbv	98
15) Acetone	3.90	43	568013	5.786	ppbv	98
16) 1,3-Butadiene	3.34	39	18187	0.465	ppbv #	15
17) tert-Butyl alcohol	4.36	59	5817	0.073	ppbv #	72
19) Isopropyl Alcohol	4.03	45	197152	3.115	ppbv #	93
20) Methylene Chloride	4.41	84	11166	0.295	ppbv #	72
23) Vinyl Acetate	5.14	43	11000	0.085	ppbv #	93
25) Ethyl Acetate	5.77	43	86195	0.500	ppbv #	87
26) Hexane	5.77	57	97762	1.319	ppbv #	44
27) Carbon Disulfide	4.62	76	33559	0.330	ppbv #	73
29) Chloroform	5.84	83	32194	0.236	ppbv	93
31) cis-1,2-Dichloroethene	5.76	61	2926	0.040	ppbv #	48
32) 1,1,1-Trichloroethane	6.62	97	120537	0.884	ppbv	96
34) 2-Butanone	5.33	43	83368	0.827	ppbv	98
36) Benzene	6.99	78	26509	0.179	ppbv	97
39) 1,2-Dichloropropane	7.28	63	429951	7.800	ppbv #	22
52) Tetrachloroethene	11.36	164	860850	16.563	ppbv	98
53) Toluene	9.94	91	140430	0.881	ppbv	94
58) Ethyl Benzene	12.86	91	6634	0.031	ppbv	92
59) m/p-Xylene	13.12	91	28016	0.147	ppbv #	48
60) o-Xylene	13.84	91	17466	0.091	ppbv #	44

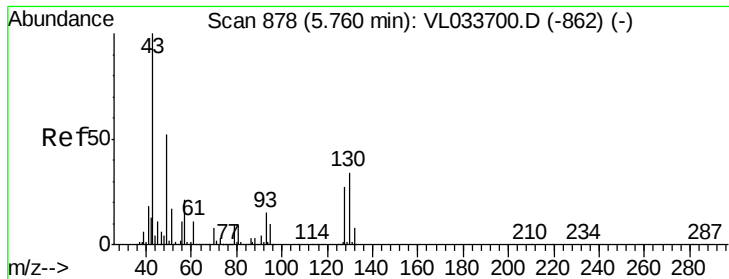
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

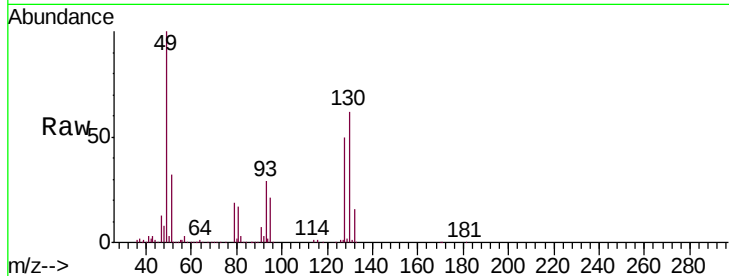
Tgt Ion: 49 Resp: 707521

Ion Ratio Lower Upper

49 100

128 50.2 25.2 75.6

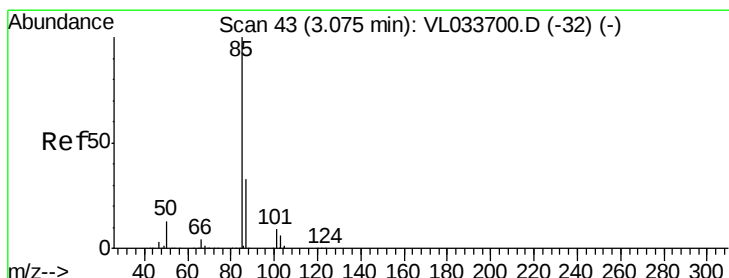
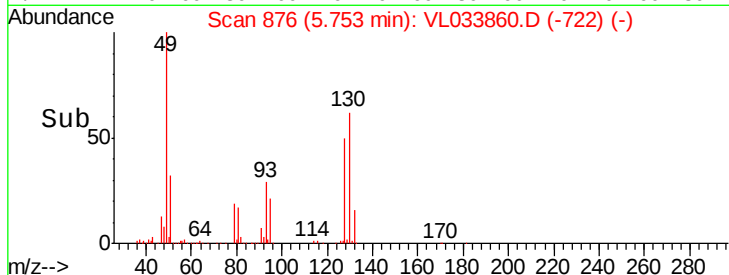
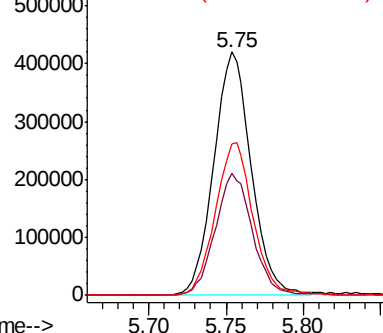
130 63.7 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.088 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033860.D

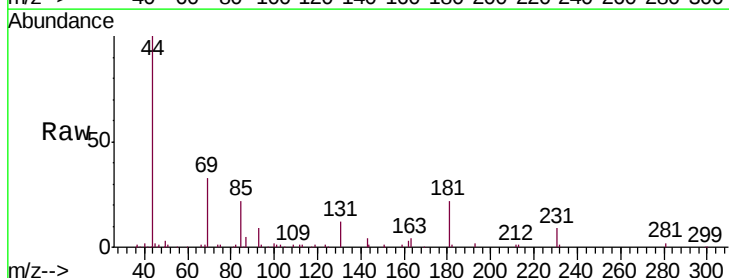
Acq: 30 May 2019 7:36

Tgt Ion: 85 Resp: 13113

Ion Ratio Lower Upper

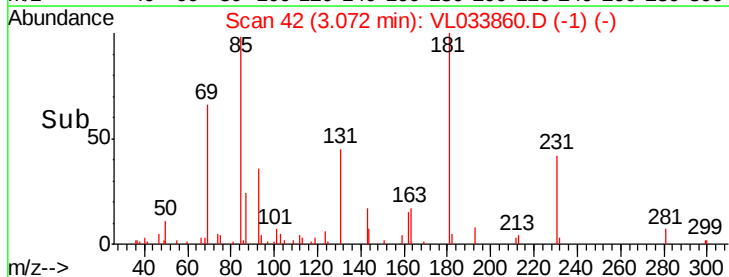
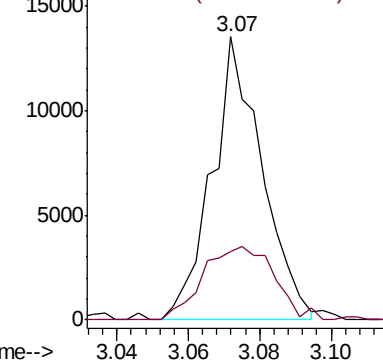
85 100

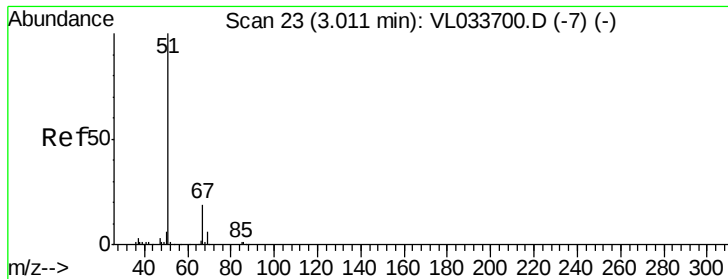
87 24.1 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

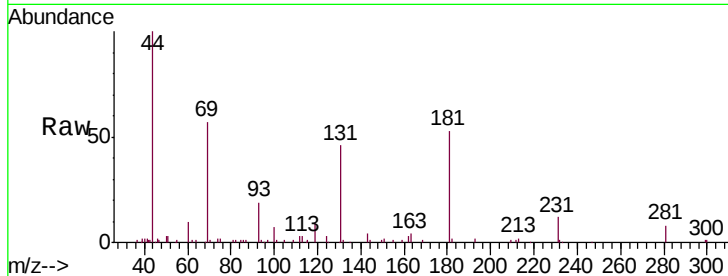




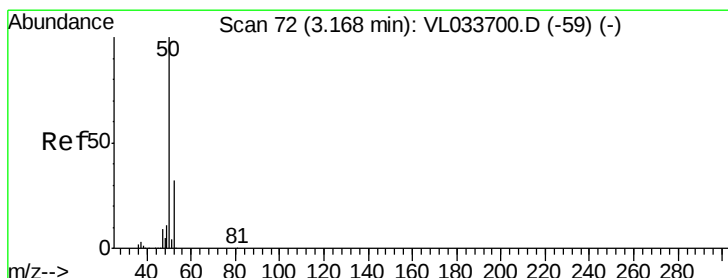
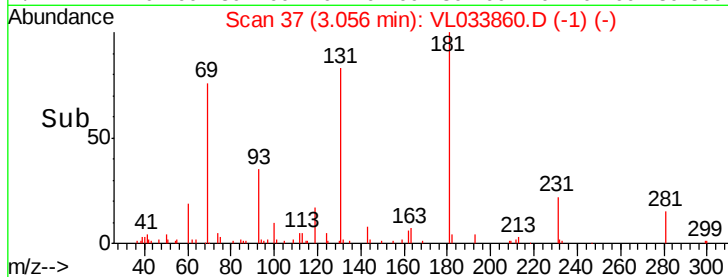
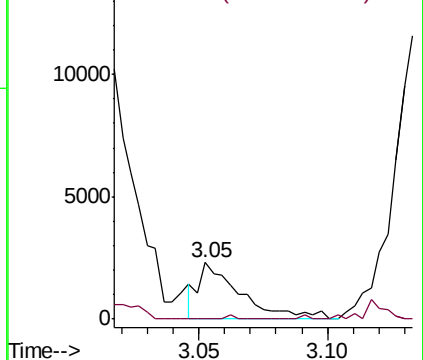
#3
Chlorodifluoromethane
Concen: 0.032 ppbv
RT: 3.06 min Scan# 37
Delta R.T. 0.05 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

Tgt Ion: 51 Resp: 2577
Ion Ratio Lower Upper
51 100
67 17.7 15.6 23.4

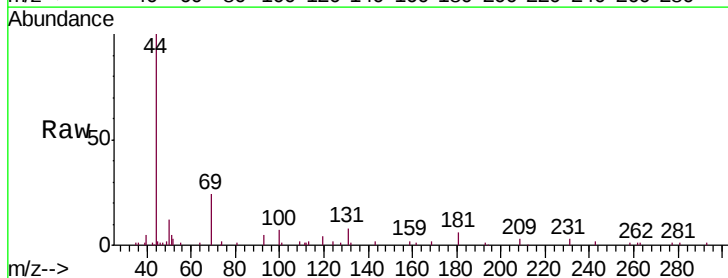


Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0

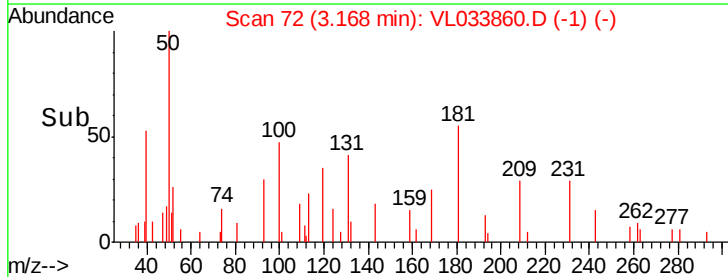
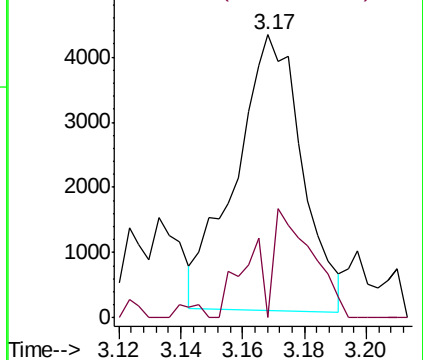


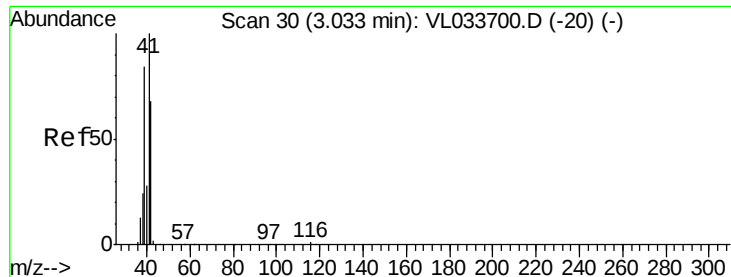
#4
Chloromethane
Concen: 0.137 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Tgt Ion: 50 Resp: 6335
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.086 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

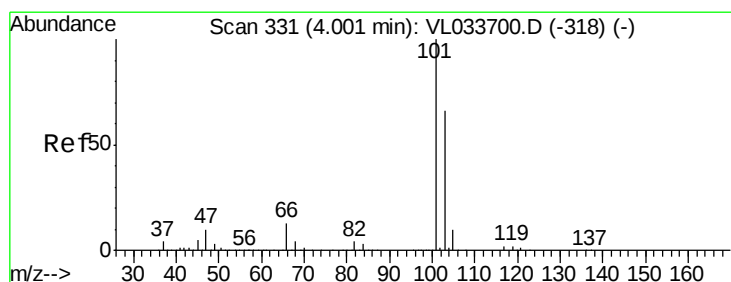
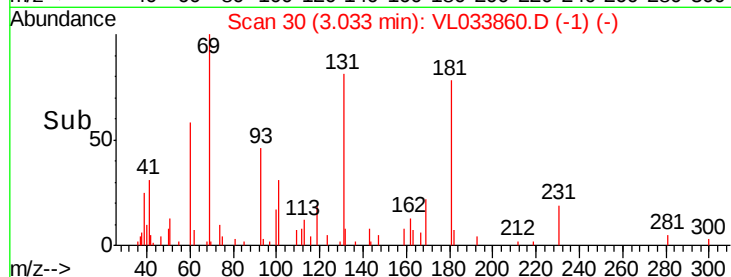
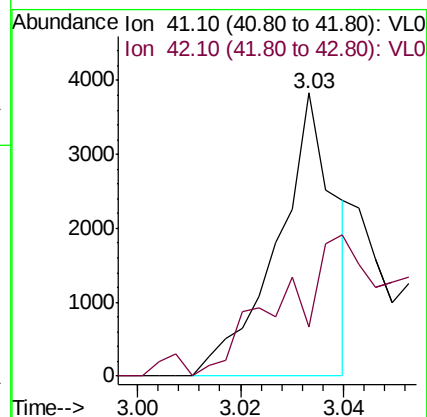
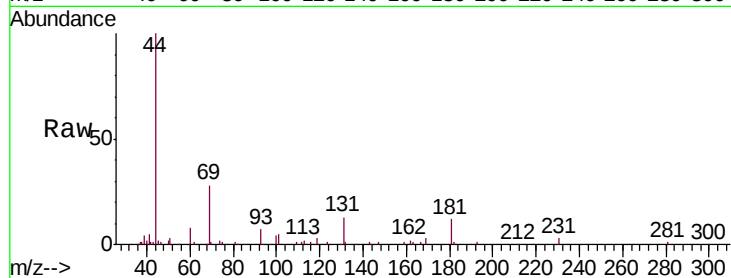
SG-23-20190523-0

Tgt Ion: 41 Resp: 2948

Ion Ratio Lower Upper

41 100

42 102.7 56.1 84.1#



#11

Trichlorofluoromethane

Concen: 0.348 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL033860.D

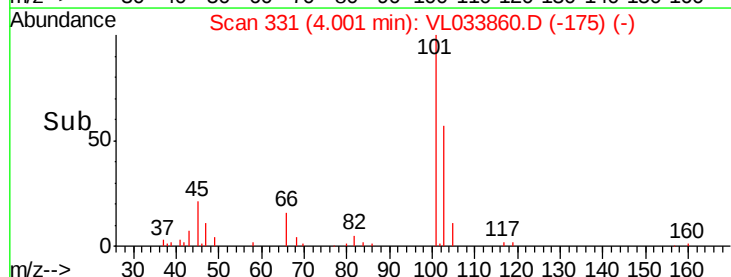
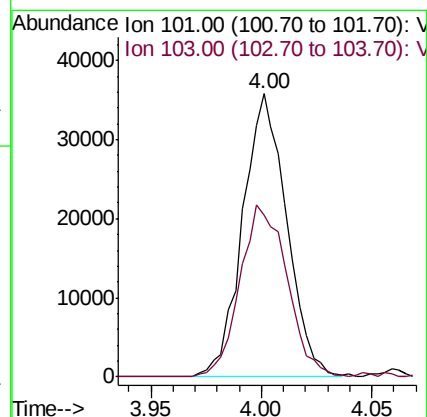
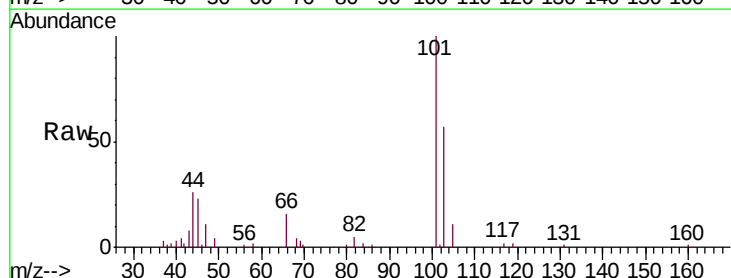
Acq: 30 May 2019 7:36

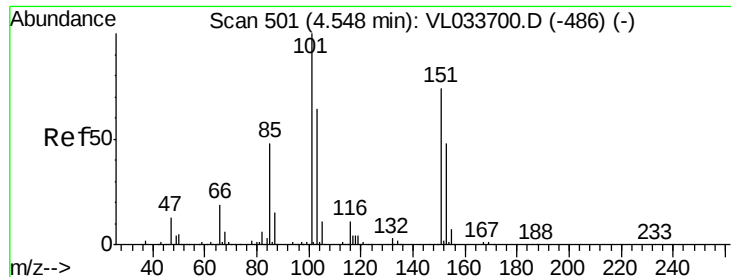
Tgt Ion: 101 Resp: 49537

Ion Ratio Lower Upper

101 100

103 57.4 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.042 ppbv

RT: 4.54 min Scan# 499

Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

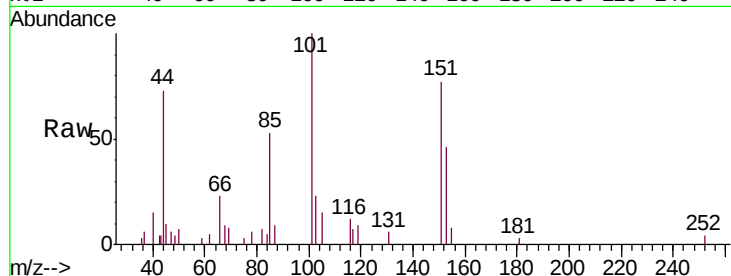
SG-23-20190523-0

Tgt Ion:101 Resp: 4210

Ion Ratio Lower Upper

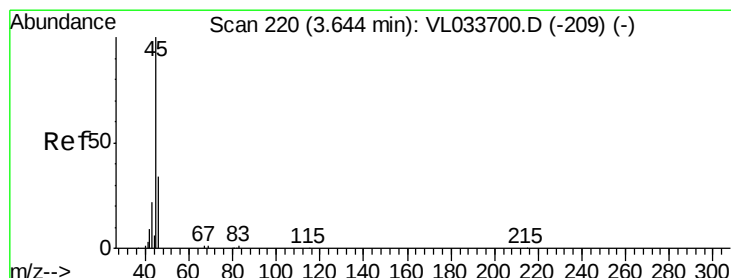
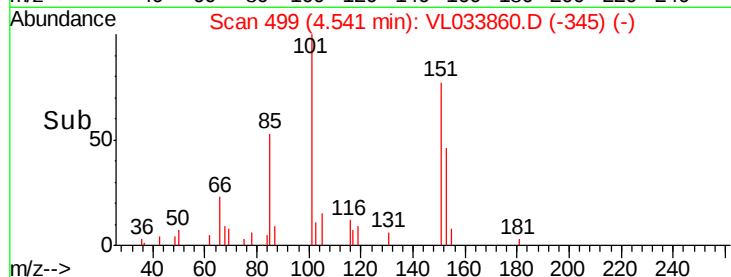
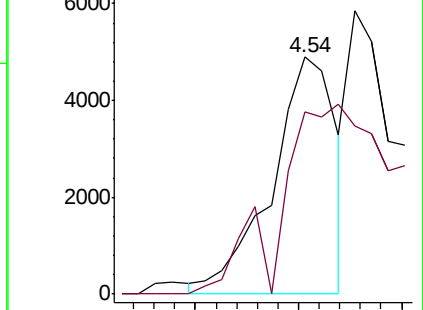
101 100

151 0.0 58.2 87.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 12.307 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.00 min

Lab File: VL033860.D

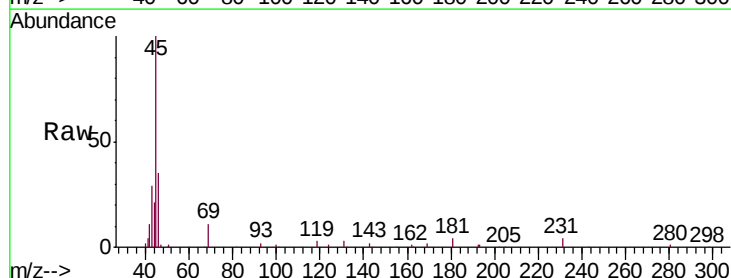
Acq: 30 May 2019 7:36

Tgt Ion: 45 Resp: 137117

Ion Ratio Lower Upper

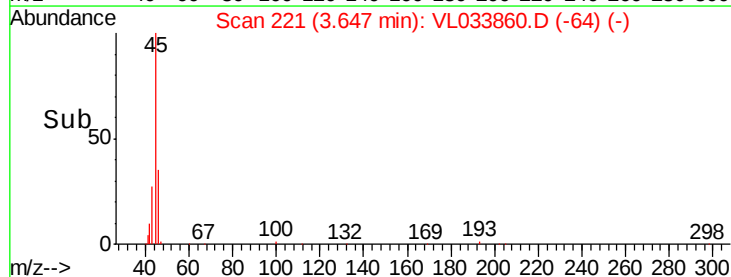
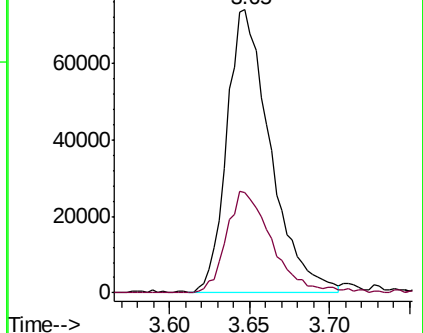
45 100

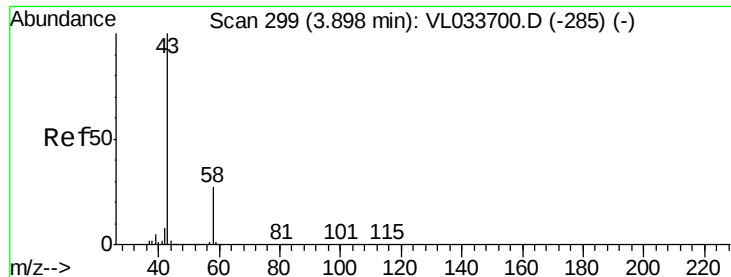
46 38.0 14.8 59.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 5.786 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

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ClientSampleId :

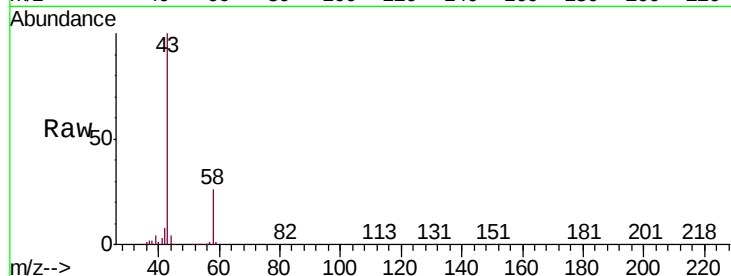
SG-23-20190523-0

Tgt Ion: 43 Resp: 568013

Ion Ratio Lower Upper

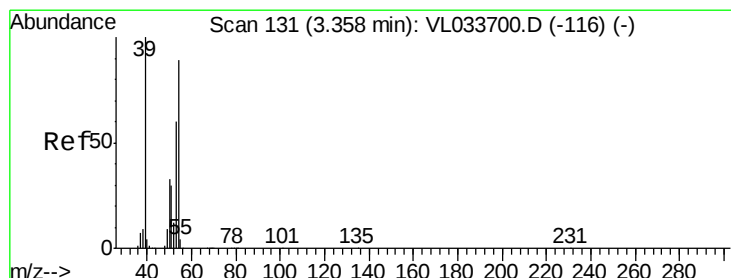
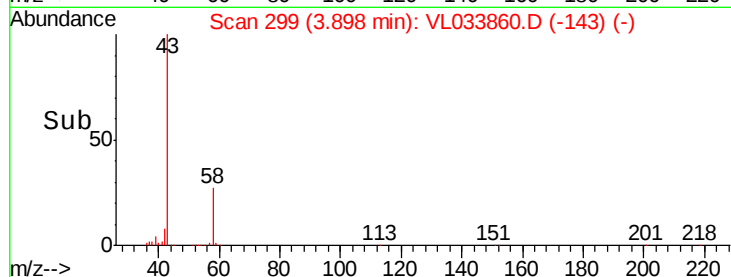
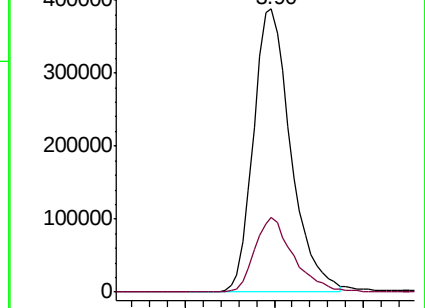
43 100

58 27.6 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.465 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.02 min

Lab File: VL033860.D

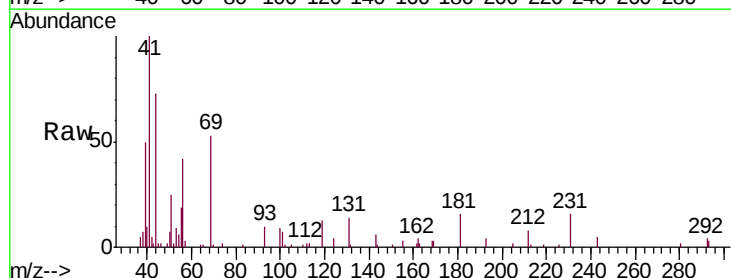
Acq: 30 May 2019 7:36

Tgt Ion: 39 Resp: 18187

Ion Ratio Lower Upper

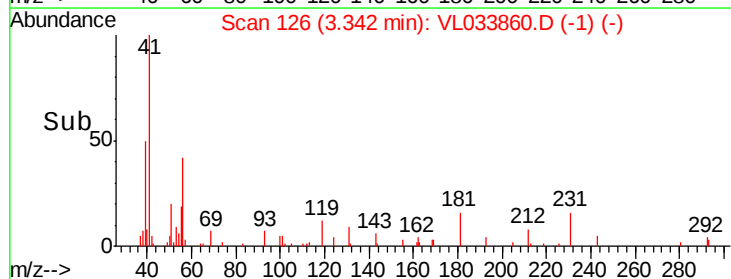
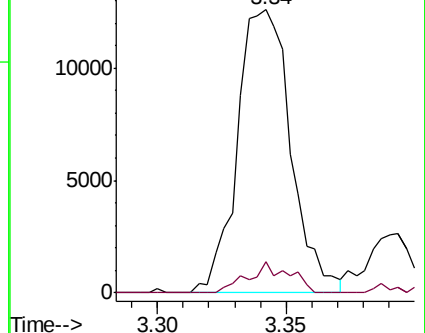
39 100

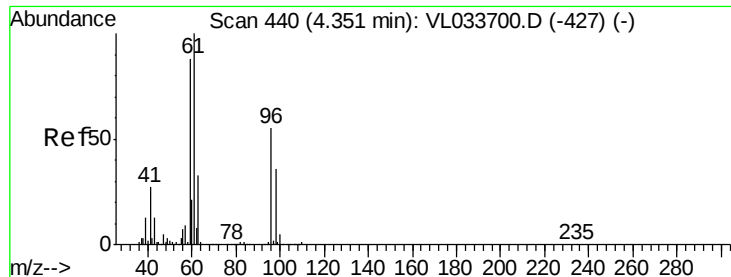
54 8.4 69.0 103.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



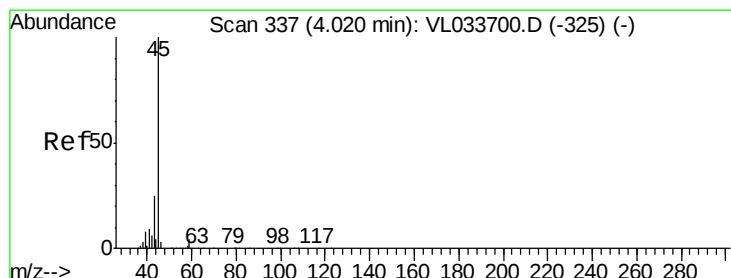
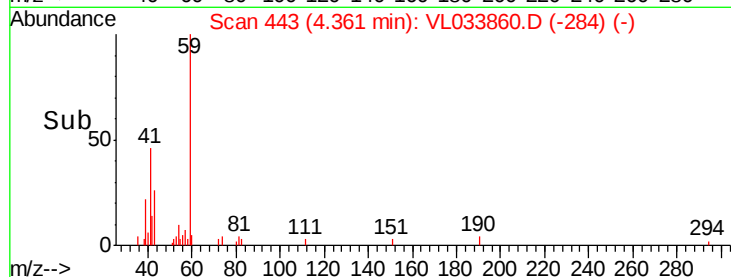
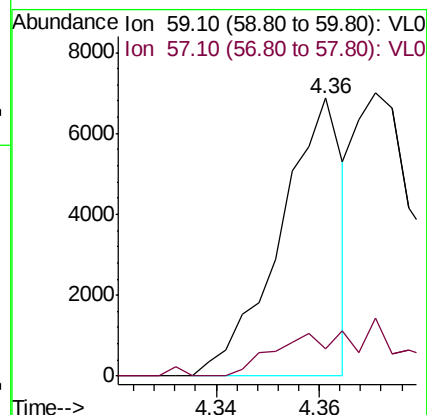
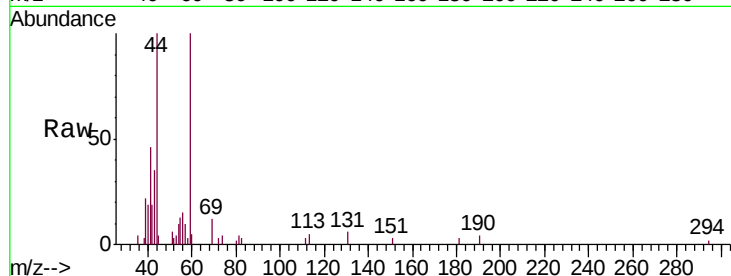


#17

tert-Butyl alcohol
Concen: 0.073 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.01 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Instrument :
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SG-23-20190523-0

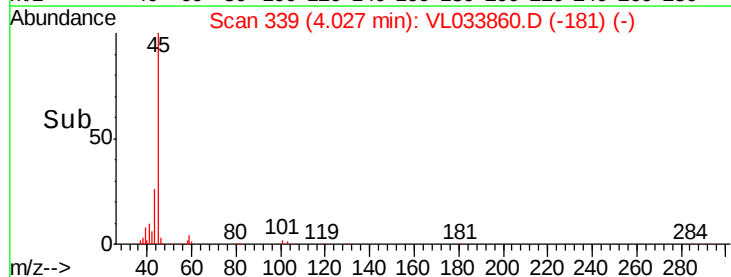
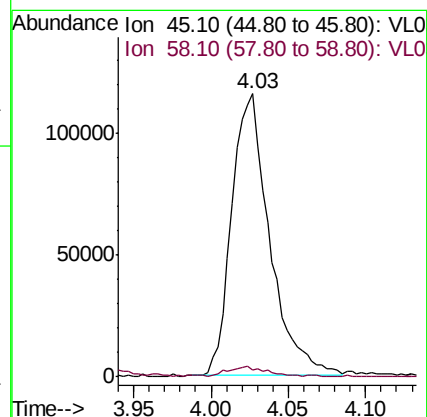
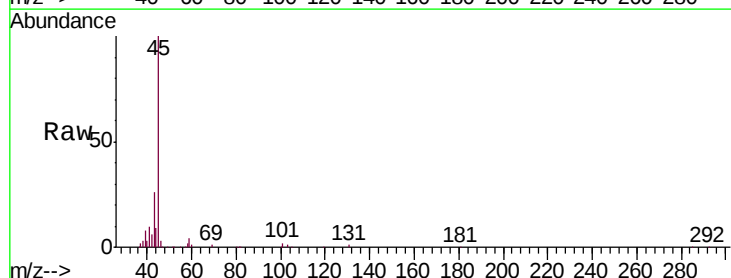
Tgt Ion: 59 Resp: 5817
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

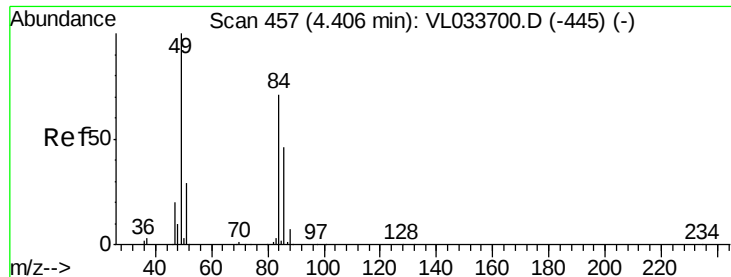


#19

Isopropyl Alcohol
Concen: 3.115 ppbv
RT: 4.03 min Scan# 339
Delta R.T. 0.01 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Tgt Ion: 45 Resp: 197152
Ion Ratio Lower Upper
45 100
58 4.4 1.6 2.4#





#20

Methylene Chloride

Concen: 0.295 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

Tgt Ion: 84 Resp: 11166

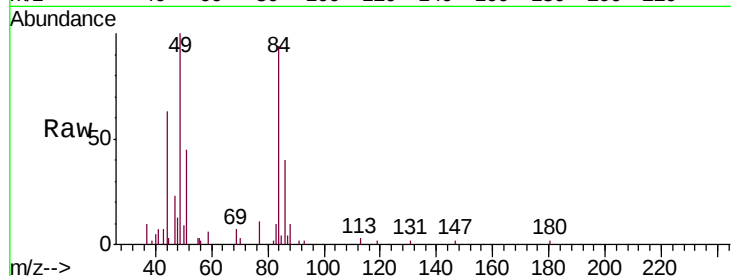
Ion Ratio Lower Upper

84 100

49 99.4 112.8 169.2#

51 38.1 33.4 50.0

86 40.9 51.7 77.5#

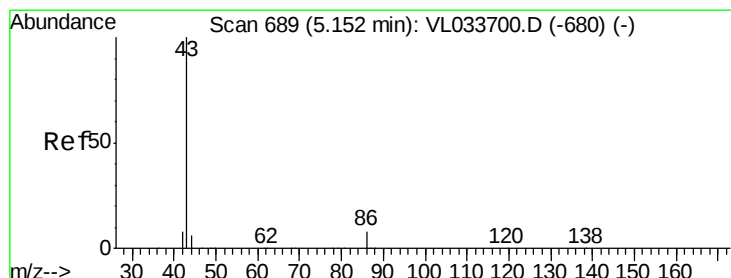
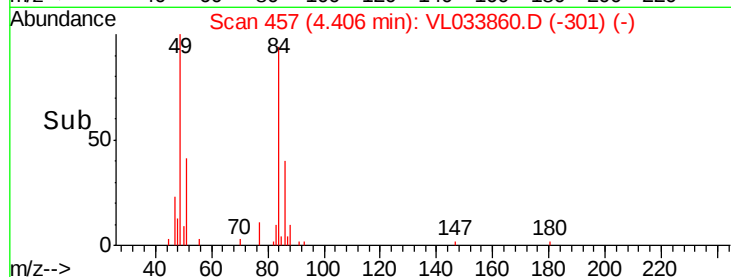
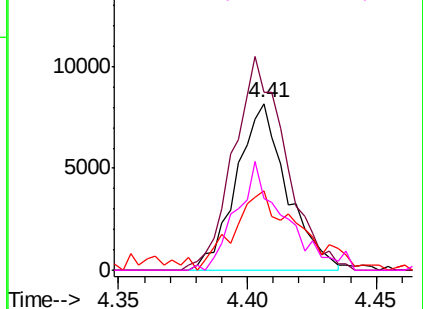


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23

Vinyl Acetate

Concen: 0.085 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Tgt Ion: 43 Resp: 11000

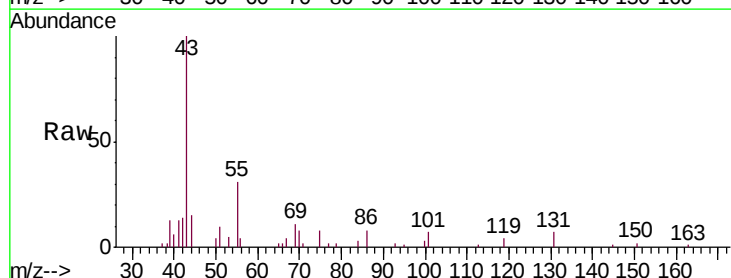
Ion Ratio Lower Upper

43 100

86 10.0 6.0 9.0#

42 8.7 7.5 11.3

44 0.1 4.4 6.6#

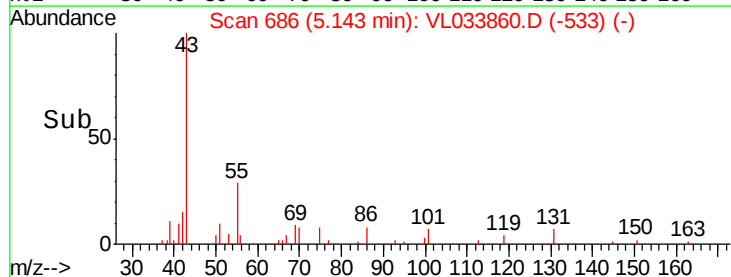
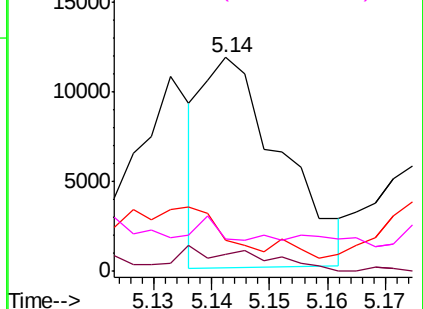


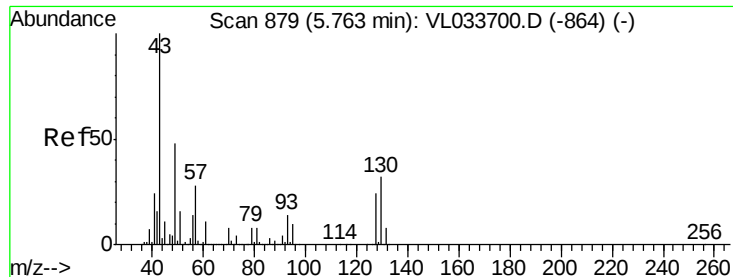
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

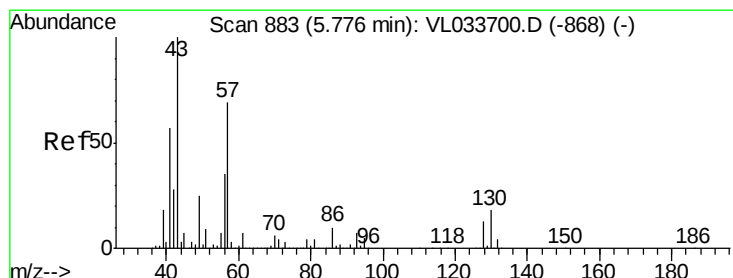
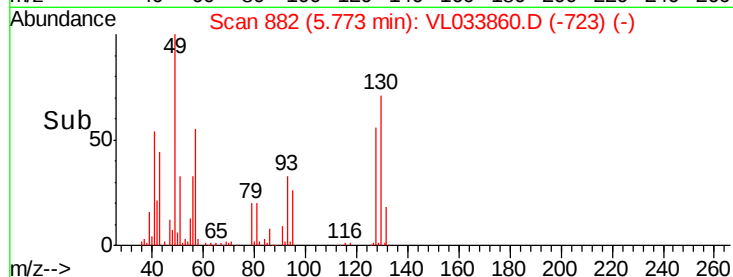
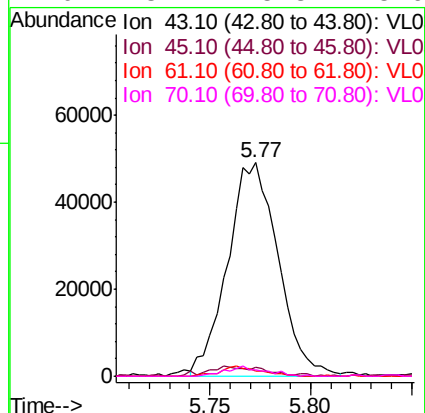
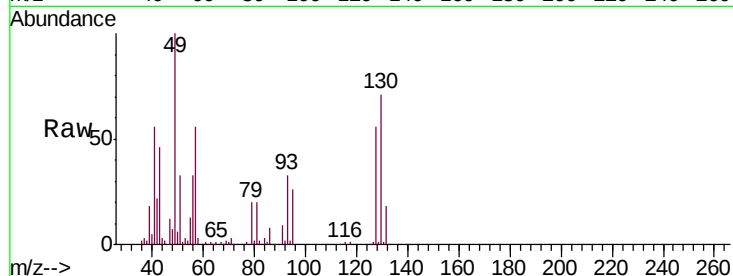




#25
Ethyl Acetate
Concen: 0.500 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

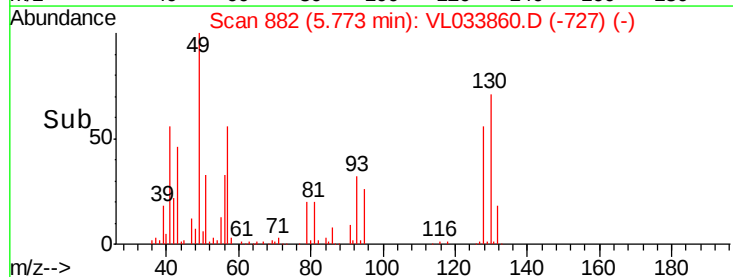
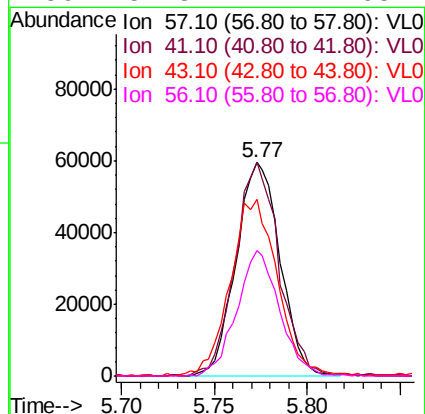
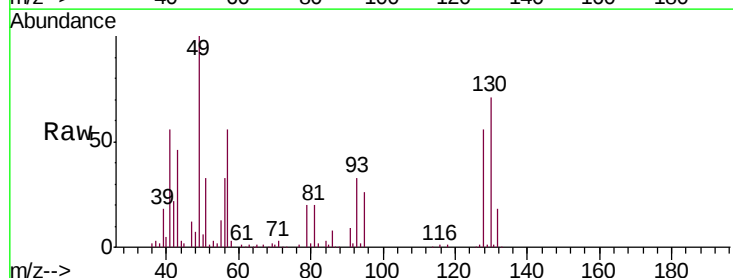
Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

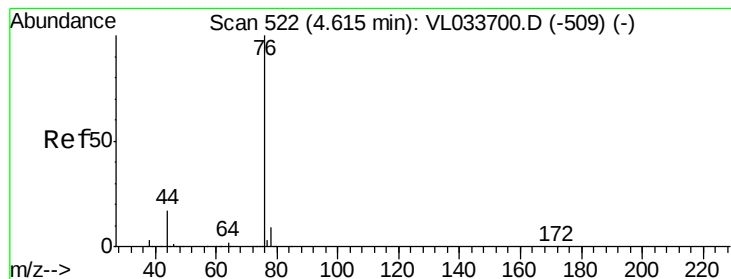
Tgt Ion:	43	Resp:	86195
Ion	Ratio	Lower	Upper
43	100		
45	5.6	7.9	11.9#
61	3.7	7.7	11.5#
70	3.7	5.8	8.6#



#26
Hexane
Concen: 1.319 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Tgt Ion:	57	Resp:	97762
Ion	Ratio	Lower	Upper
57	100		
41	100.8	69.8	104.6
43	90.0	181.8	272.6#
56	57.3	42.1	63.1





#27

Carbon Disulfide

Concen: 0.330 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

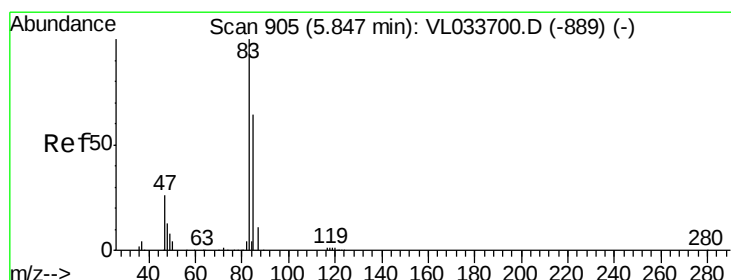
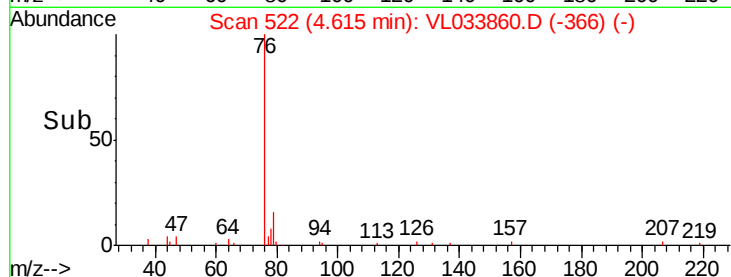
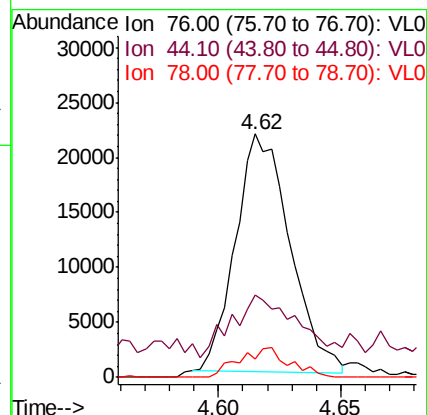
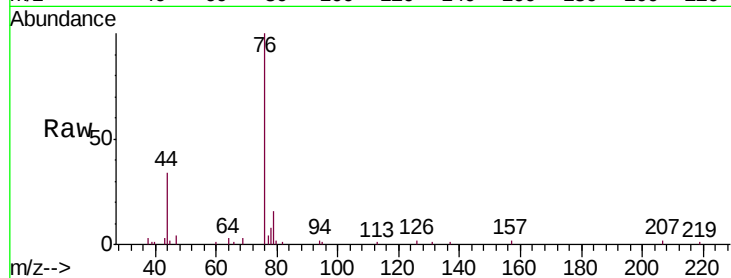
Tgt Ion: 76 Resp: 33559

Ion Ratio Lower Upper

76 100

44 33.8 13.8 20.8#

78 11.4 7.4 11.0#



#29

Chloroform

Concen: 0.236 ppbv

RT: 5.84 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL033860.D

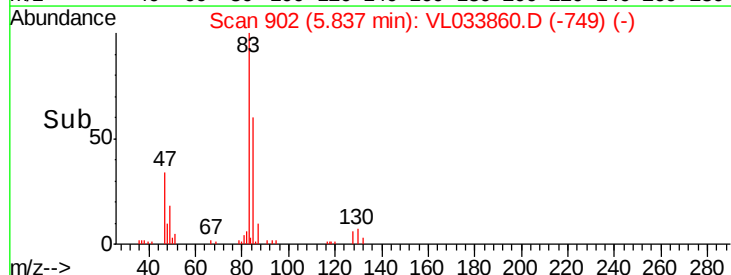
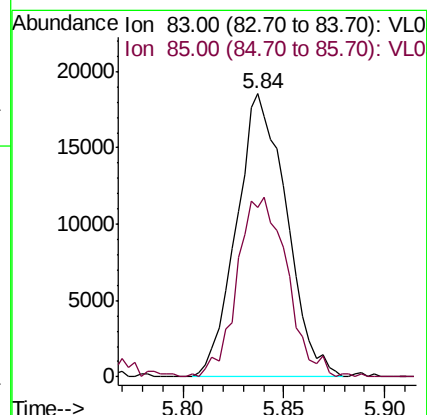
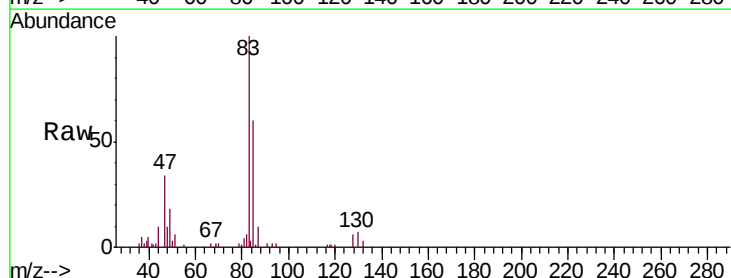
Acq: 30 May 2019 7:36

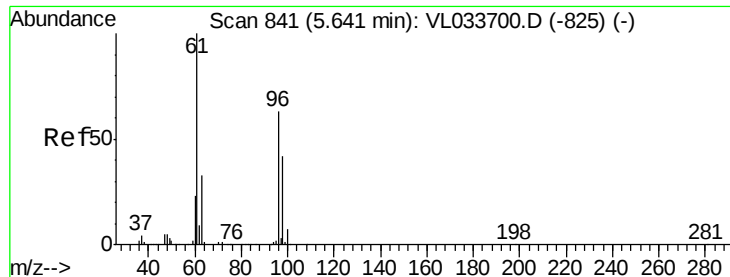
Tgt Ion: 83 Resp: 32194

Ion Ratio Lower Upper

83 100

85 58.8 51.5 77.3





#31

cis-1,2-Dichloroethene

Concen: 0.040 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.12 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

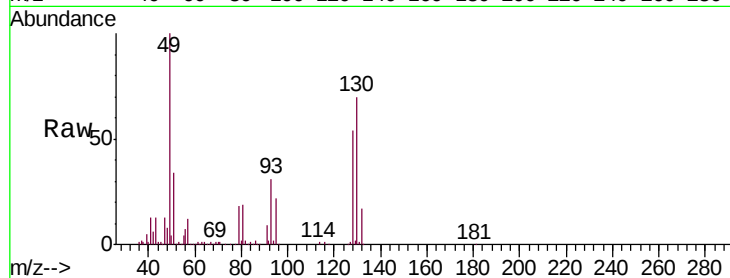
Tgt Ion: 61 Resp: 2926

Ion Ratio Lower Upper

61 100

96 29.9 50.8 76.2#

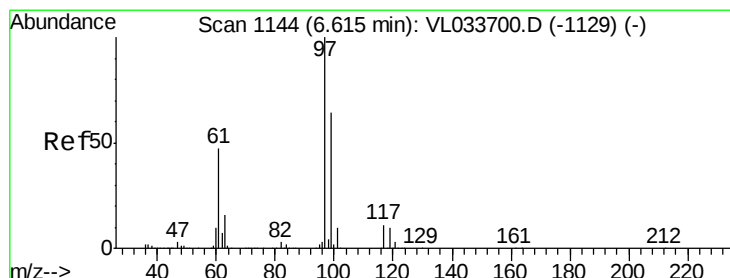
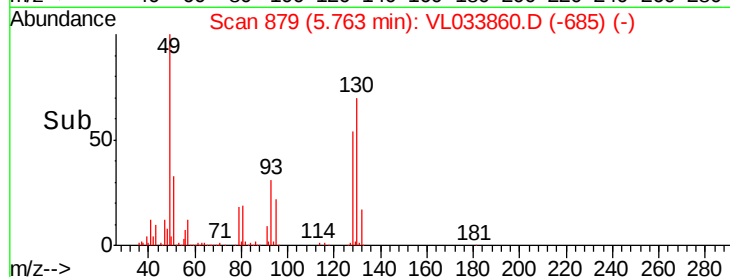
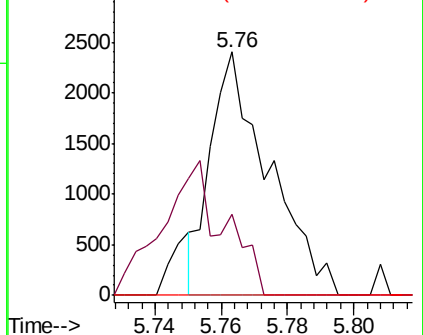
98 0.0 33.3 49.9#



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.884 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

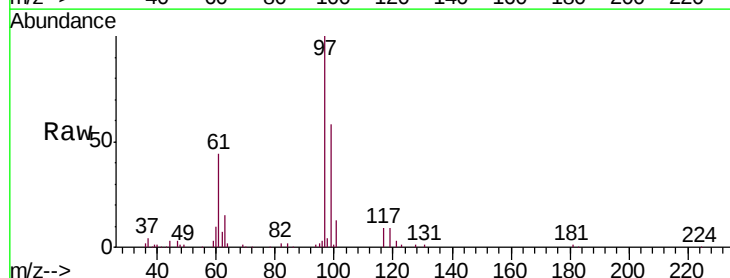
Tgt Ion: 97 Resp: 120537

Ion Ratio Lower Upper

97 100

99 67.8 51.5 77.3

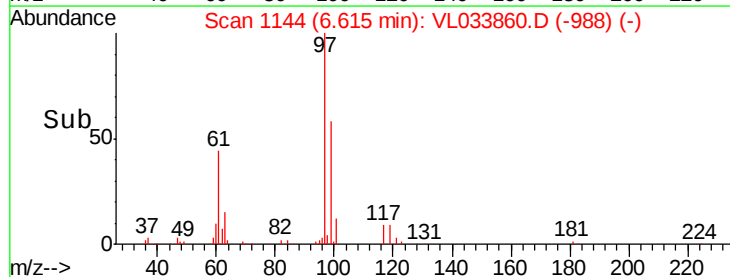
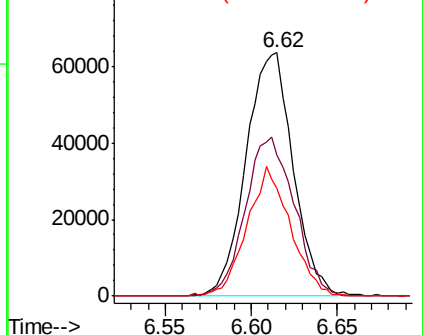
61 49.2 37.8 56.8

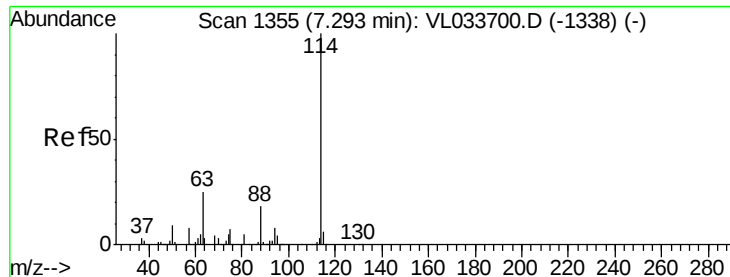


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

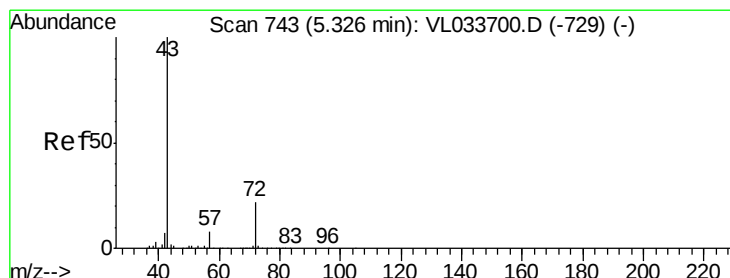
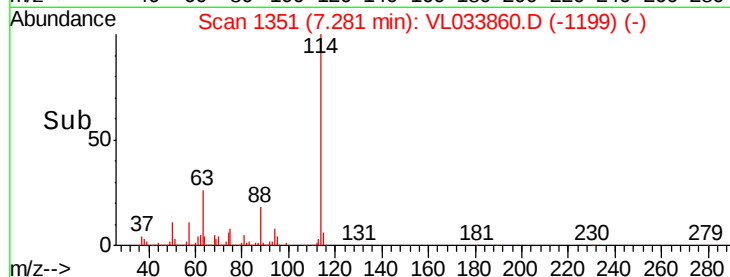
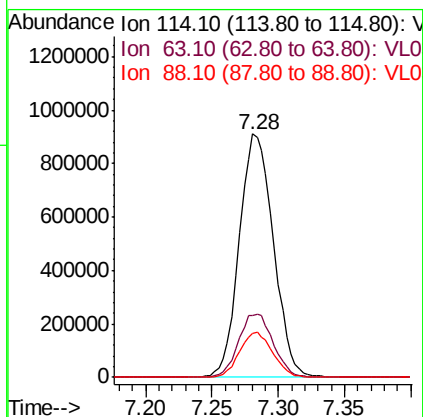
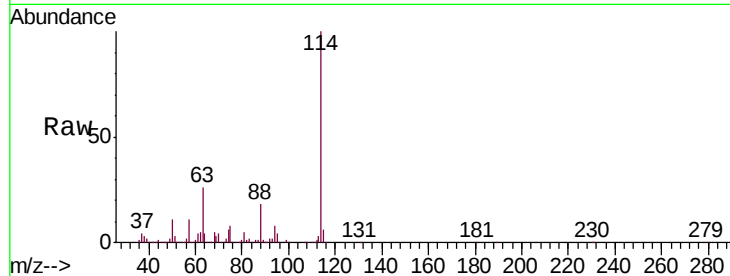




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VL033860.D
 Acq: 30 May 2019 7:36

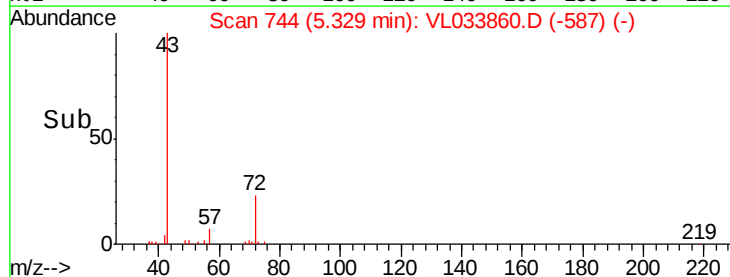
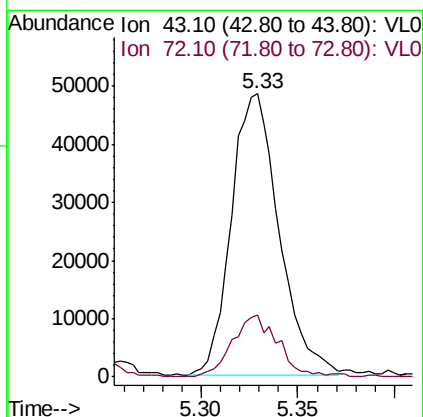
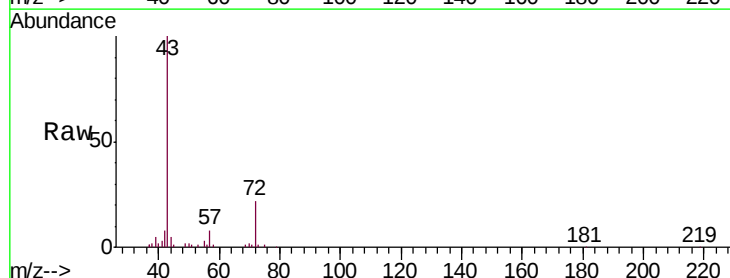
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-23-20190523-0

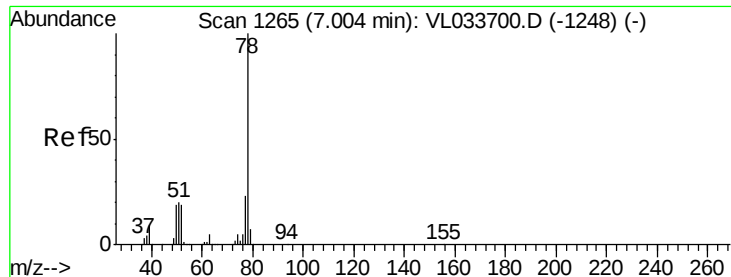
Tgt Ion:114 Resp: 1625414
 Ion Ratio Lower Upper
 114 100
 63 26.5 20.9 31.3
 88 18.1 14.3 21.5



#34
 2-Butanone
 Concen: 0.827 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033860.D
 Acq: 30 May 2019 7:36

Tgt Ion: 43 Resp: 83368
 Ion Ratio Lower Upper
 43 100
 72 21.2 17.8 26.6

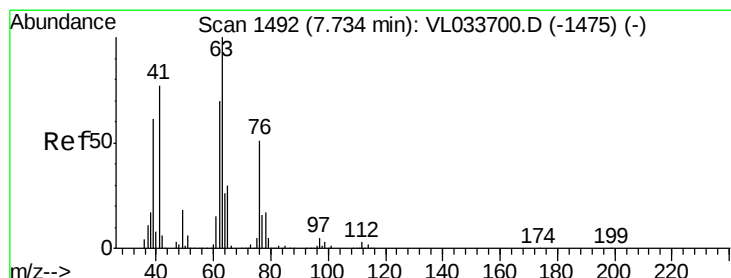
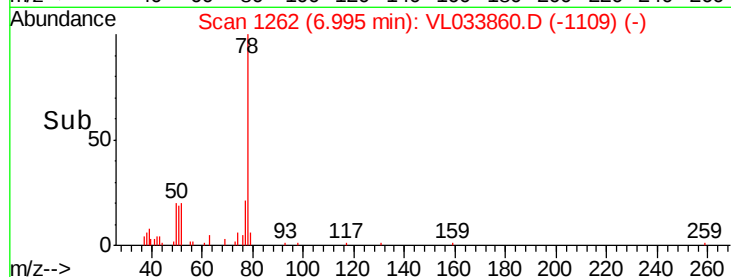
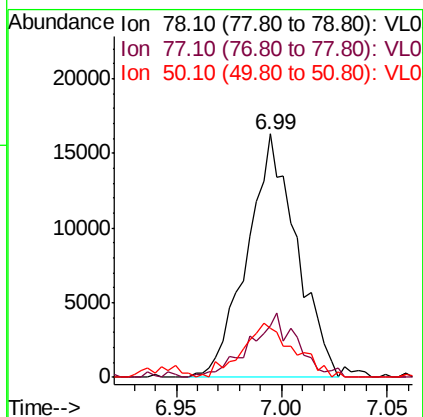
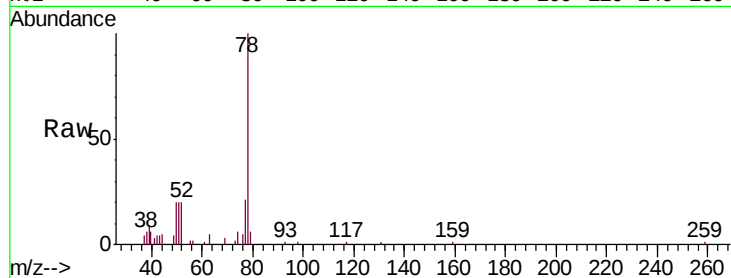




#36
Benzene
Concen: 0.179 ppbv
RT: 6.99 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

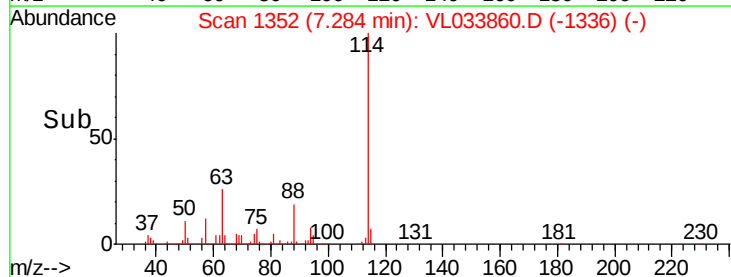
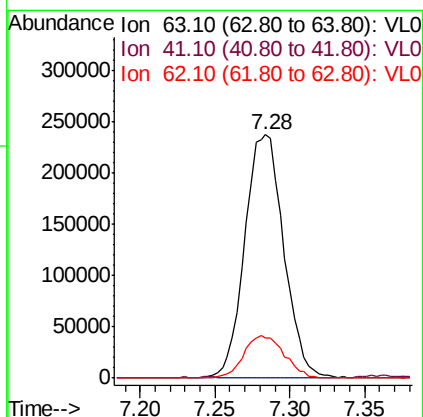
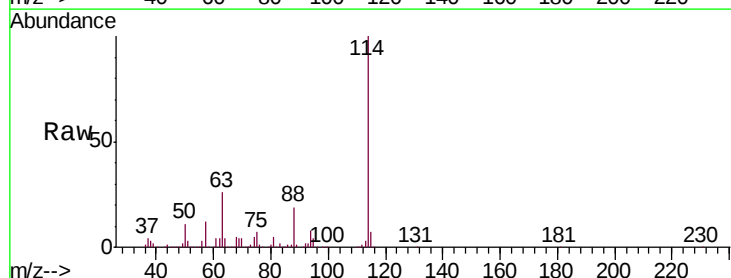
Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

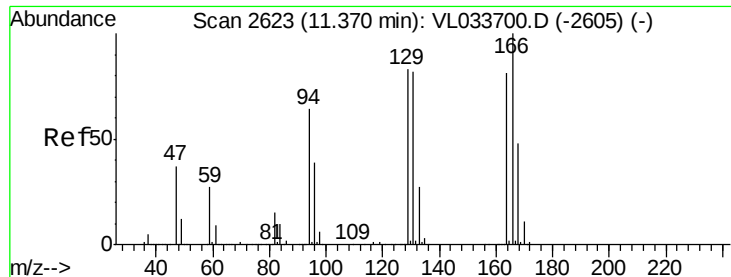
Tgt Ion: 78 Resp: 26509
Ion Ratio Lower Upper
78 100
77 21.4 18.4 27.6
50 18.1 15.5 23.3



#39
1,2-Dichloropropane
Concen: 7.800 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.45 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Tgt Ion: 63 Resp: 429951
Ion Ratio Lower Upper
63 100
41 0.0 61.5 92.3#
62 16.5 56.2 84.4#

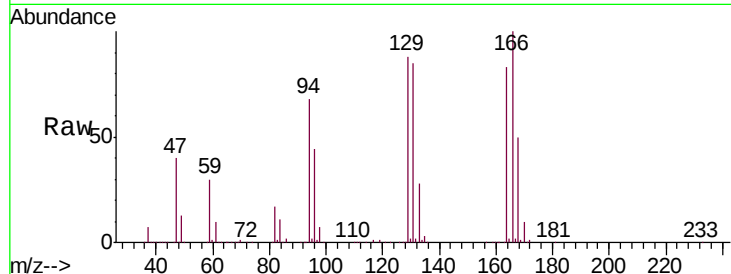




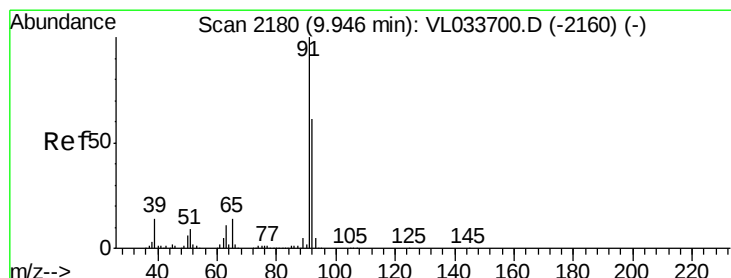
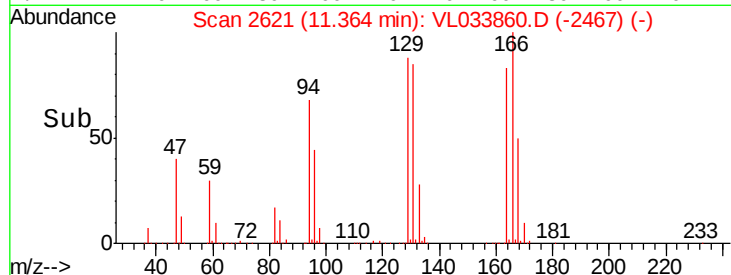
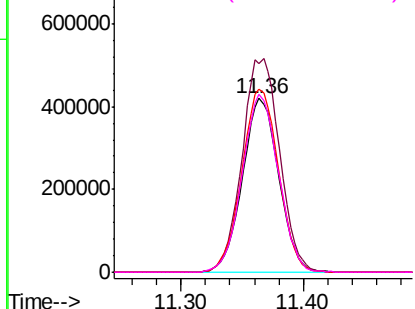
#52
Tetrachloroethene
Concen: 16.563 ppbv
RT: 11.36 min Scan# 2621
Delta R.T. -0.01 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

Tgt Ion:164 Resp: 860850
Ion Ratio Lower Upper
164 100
166 120.4 98.9 148.3
129 105.7 81.8 122.6
131 102.4 81.1 121.7

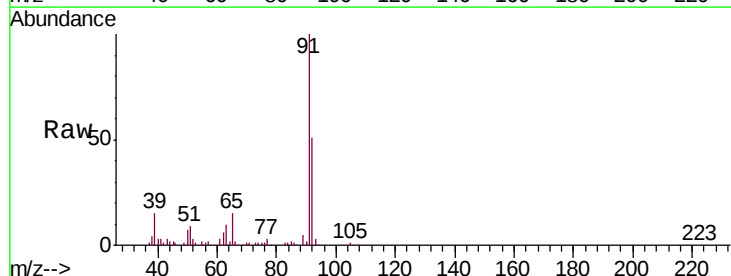


Abundance Ion 163.90 (163.60 to 164.60): V
800000
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

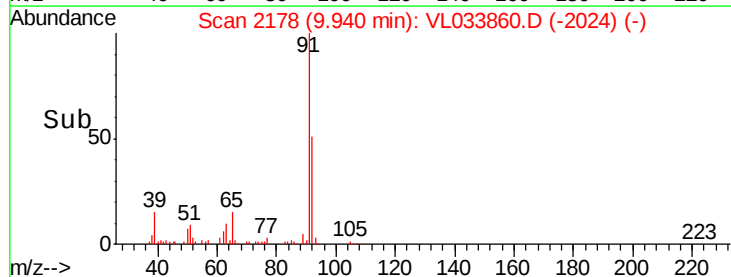
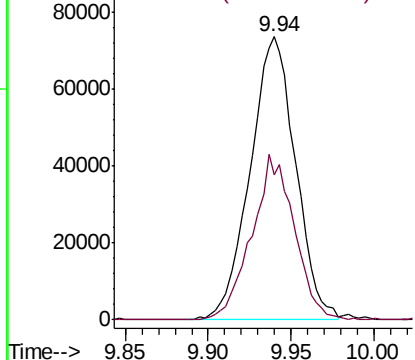


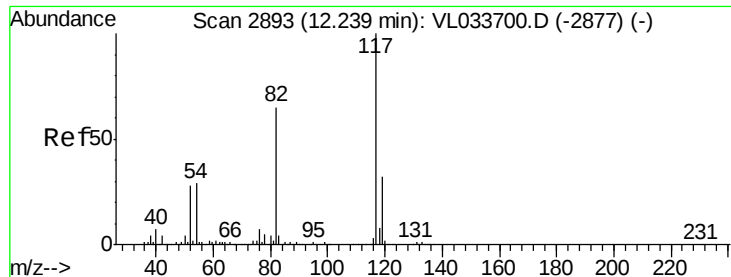
#53
Toluene
Concen: 0.881 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Tgt Ion: 91 Resp: 140430
Ion Ratio Lower Upper
91 100
92 54.8 47.6 71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
80000
Ion 92.10 (91.80 to 92.80): VL0

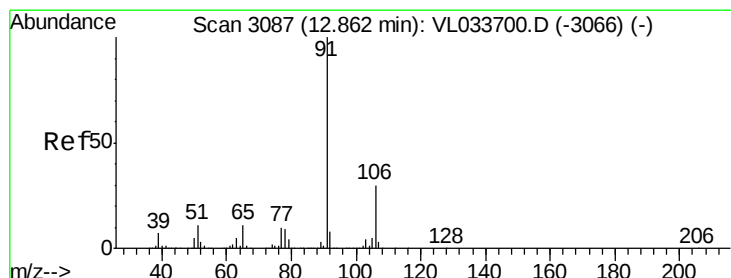
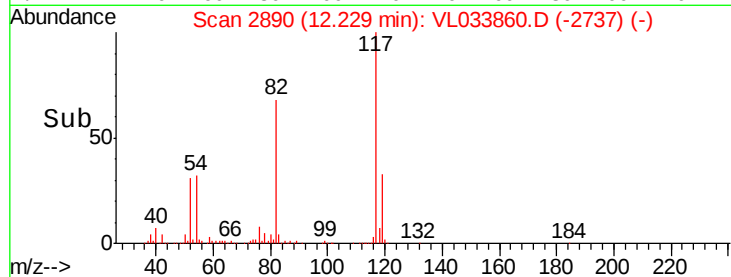
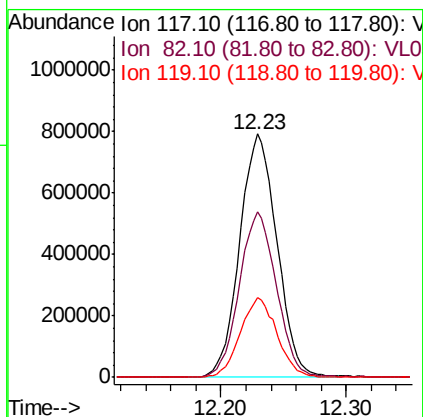
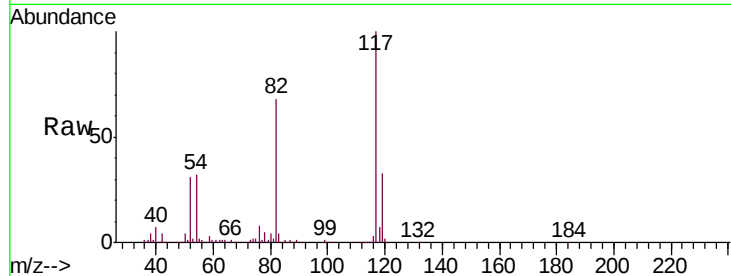




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

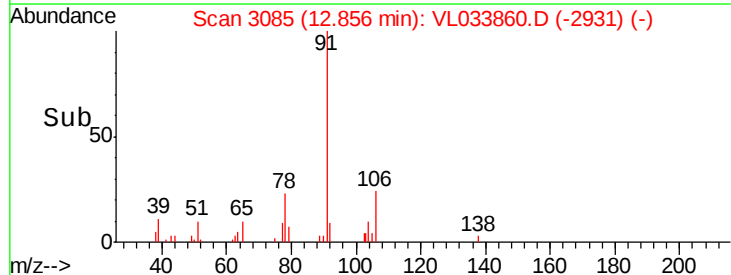
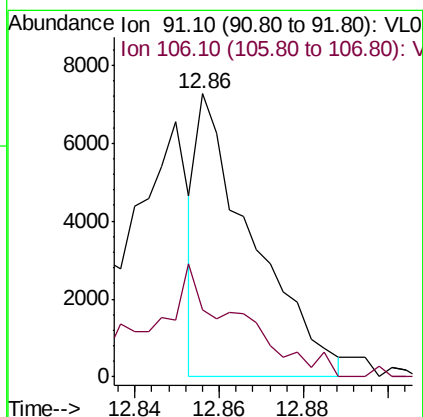
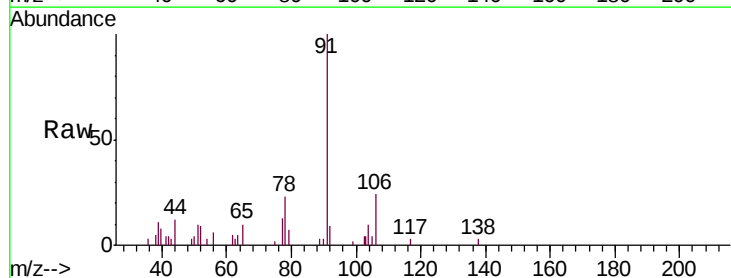
Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

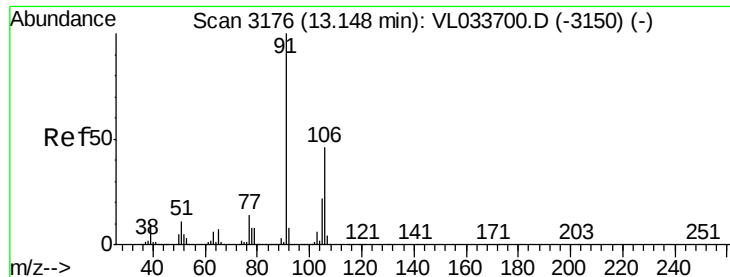
Tgt Ion: 117 Resp: 1640834
Ion Ratio Lower Upper
117 100
82 68.3 49.4 74.0
119 32.4 24.9 37.3



#58
Ethyl Benzene
Concen: 0.031 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Tgt Ion: 91 Resp: 6634
Ion Ratio Lower Upper
91 100
106 25.3 23.9 35.9

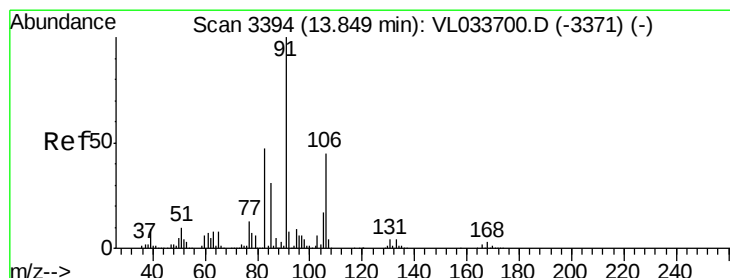
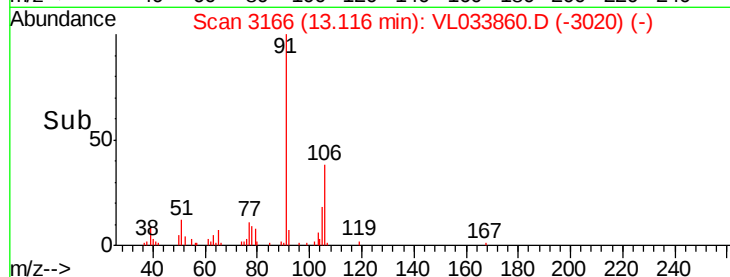
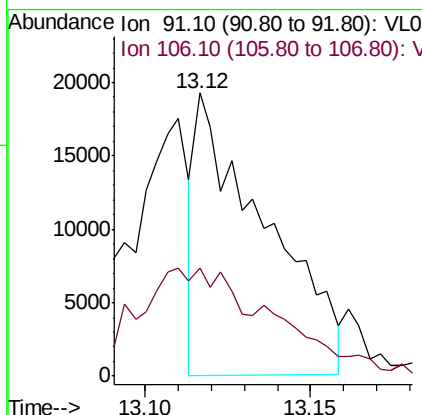
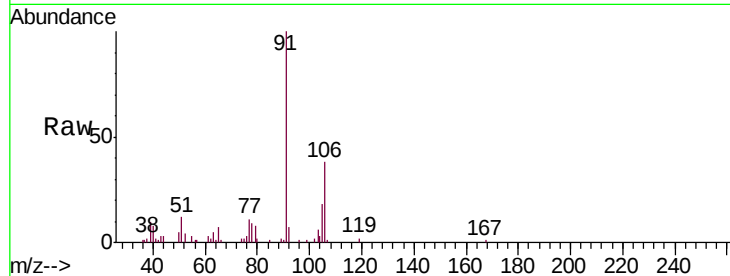




#59
m/p-Xylene
Concen: 0.147 ppbv
RT: 13.12 min Scan# 3166
Delta R.T. -0.03 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

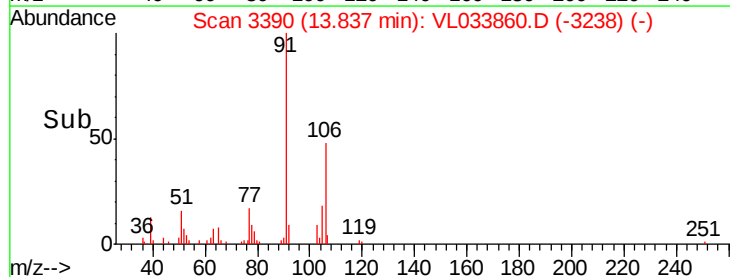
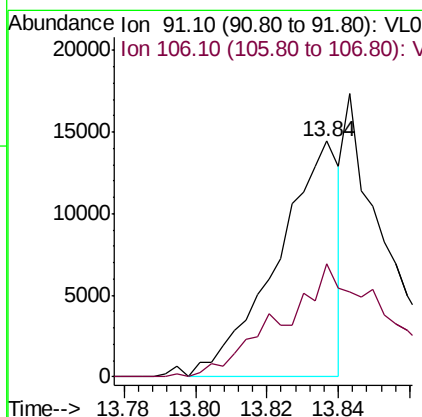
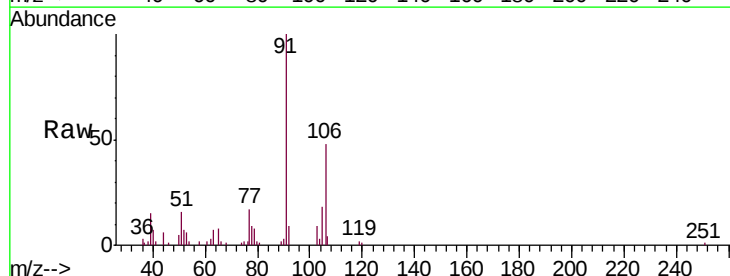
Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

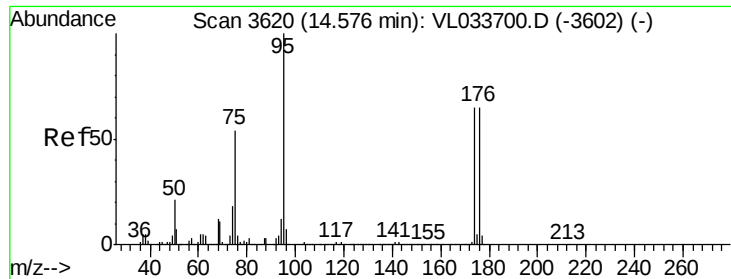
Tgt Ion: 91 Resp: 28016
Ion Ratio Lower Upper
91 100
106 78.3 35.8 53.6#



#60
o-Xylene
Concen: 0.091 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Tgt Ion: 91 Resp: 17466
Ion Ratio Lower Upper
91 100
106 78.9 21.6 64.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.997 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

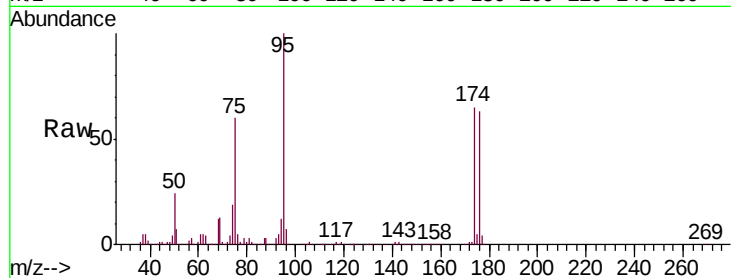
Tgt Ion: 95 Resp: 1329850

Ion Ratio Lower Upper

95 100

174 67.0 53.9 80.9

175 4.7 3.8 5.8



Abundance

Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

