

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL090518\
 Data File : VL032477.D
 Acq On : 6 Sep 2018 5:08
 Operator : SY/AP
 Sample : J4745-04DL 20X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-7DL

Quant Time: Sep 06 07:15:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018
 QLast Update : Fri Aug 31 21:33:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1479399	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.33	114	2990173	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.29	117	2873739	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2232056	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds

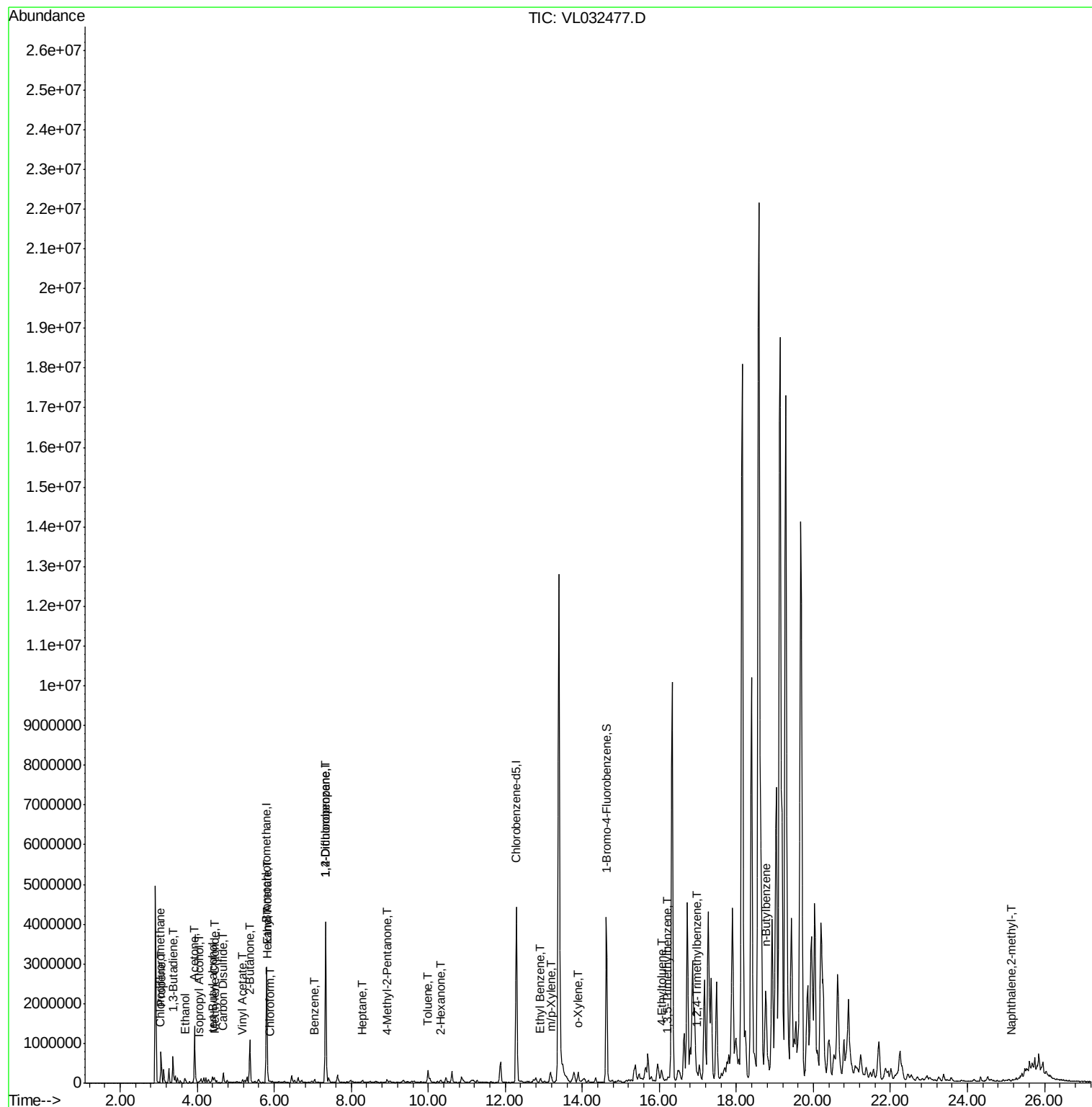
					Qvalue	
3) Chlorodifluoromethane	3.04	51	5220	0.039	ppbv #	80
9) Propene	3.06	41	332585	6.157	ppbv	94
10) Heptane	8.29	43	25891	0.134	ppbv #	85
13) Ethanol	3.68	45	123125	7.312	ppbv	96
15) Acetone	3.93	43	1435773	10.777	ppbv	97
16) 1,3-Butadiene	3.37	39	200592	3.200	ppbv #	18
17) tert-Butyl alcohol	4.40	59	107637	5.250	ppbv #	100
19) Isopropyl Alcohol	4.06	45	14614	0.167	ppbv #	93
20) Methylene Chloride	4.44	84	38629	0.760	ppbv	96
23) Vinyl Acetate	5.18	43	36186	0.164	ppbv #	29
25) Ethyl Acetate	5.82	43	71768	0.228	ppbv #	81
26) Hexane	5.82	57	97066	0.689	ppbv #	41
27) Carbon Disulfide	4.66	76	21131	0.162	ppbv #	85
29) Chloroform	5.88	83	10700	0.050	ppbv #	74
34) 2-Butanone	5.37	43	1259926	6.344	ppbv	99
36) Benzene	7.05	78	56185	0.221	ppbv	99
39) 1,2-Dichloropropane	7.34	63	787769	7.236	ppbv #	25
50) 4-Methyl-2-Pentanone	8.93	43	49842	0.167	ppbv	99
51) 2-Hexanone	10.31	43	14860	0.077	ppbv #	29
53) Toluene	9.99	91	230325	0.866	ppbv	98
58) Ethyl Benzene	12.92	91	33434	0.097	ppbv	98
59) m/p-Xylene	13.20	91	18108	0.059	ppbv #	31
60) o-Xylene	13.90	91	87956	0.292	ppbv	99
70) n-Butylbenzene	18.76	91	20842	0.043	ppbv #	33
72) 4-Ethyltoluene	16.04	105	30426	0.093	ppbv #	56
73) 1,3,5-Trimethylbenzene	16.21	105	28002	0.085	ppbv #	78
74) 1,2,4-Trimethylbenzene	16.98	105	115348	0.320	ppbv #	67
80) Naphthalene,2-methyl-	25.16	142	3412	0.044	ppbv #	84

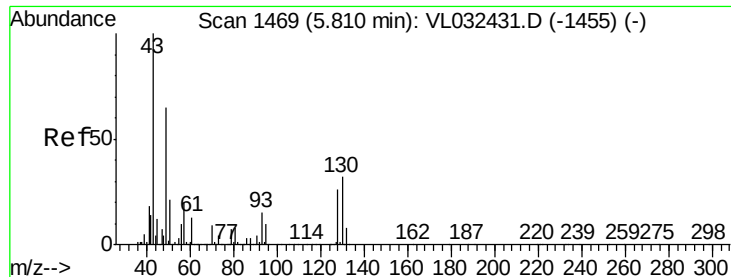
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 1466

Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Instrument :

MSVOA_L

ClientSampleId :

VP-7DL

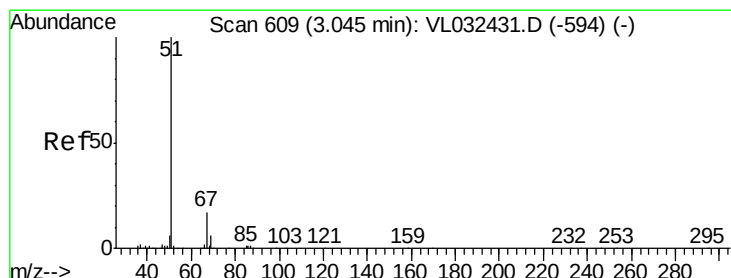
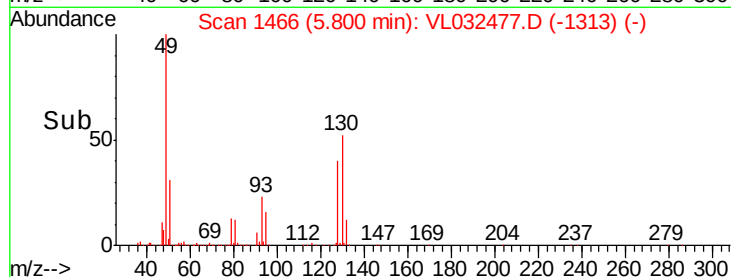
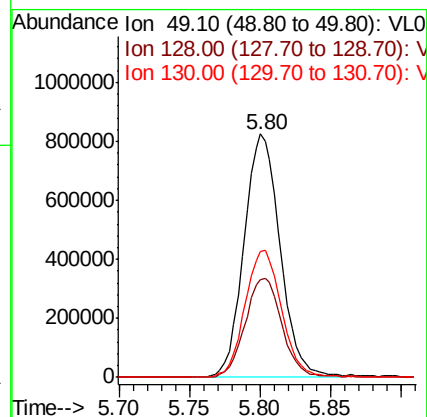
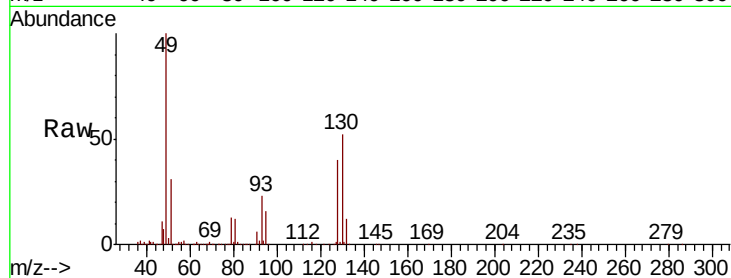
Tgt Ion: 49 Resp: 1479399

Ion Ratio Lower Upper

49 100

128 41.6 20.7 62.1

130 53.1 26.6 79.7



#3

Chlorodifluoromethane

Concen: 0.039 ppbv

RT: 3.04 min Scan# 608

Delta R.T. -0.00 min

Lab File: VL032477.D

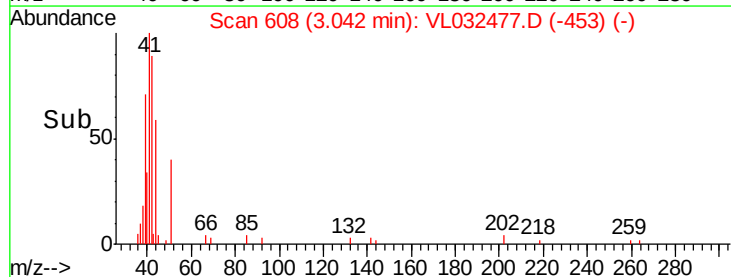
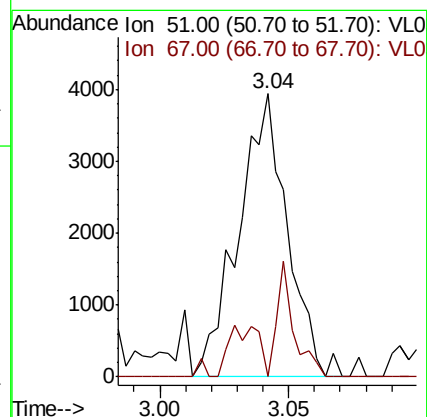
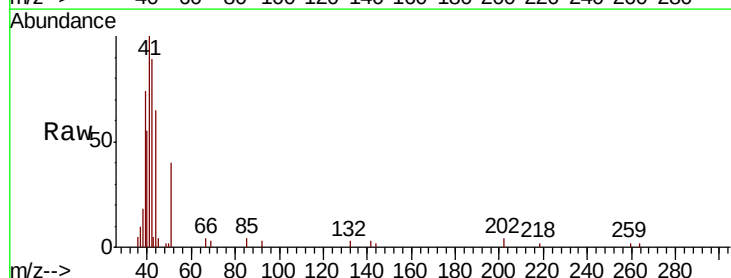
Acq: 6 Sep 2018 5:08

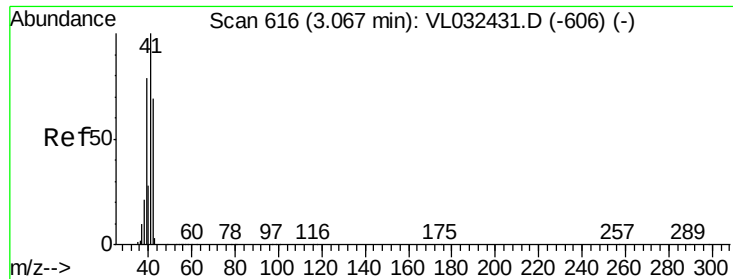
Tgt Ion: 51 Resp: 5220

Ion Ratio Lower Upper

51 100

67 26.0 13.8 20.8#





#9

Propene

Concen: 6.157 ppbv

RT: 3.06 min Scan# 614

Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Instrument :

MSVOA_L

ClientSampleId :

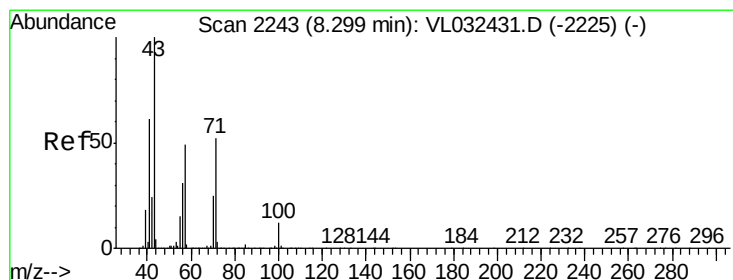
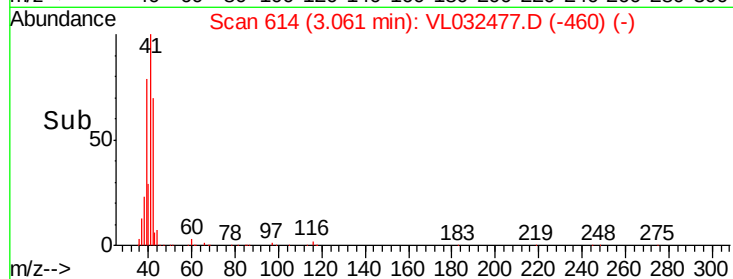
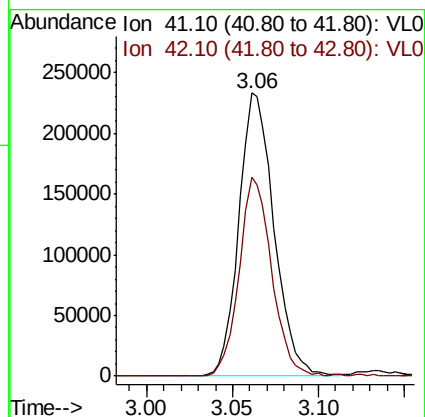
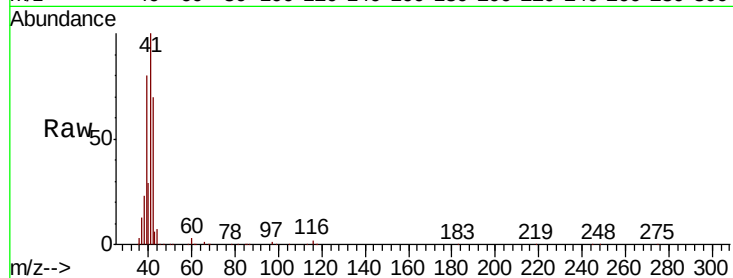
VP-7DL

Tgt Ion: 41 Resp: 332585

Ion Ratio Lower Upper

41 100

42 65.7 56.6 84.8



#10

Heptane

Concen: 0.134 ppbv

RT: 8.29 min Scan# 2241

Delta R.T. -0.01 min

Lab File: VL032477.D

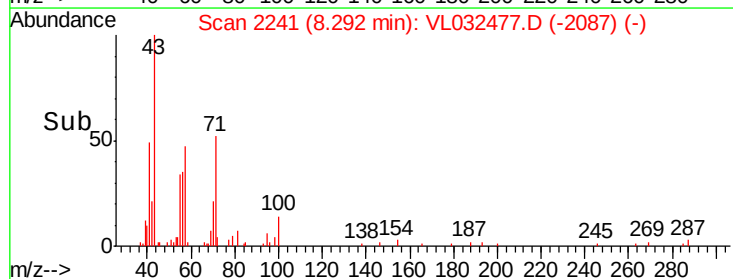
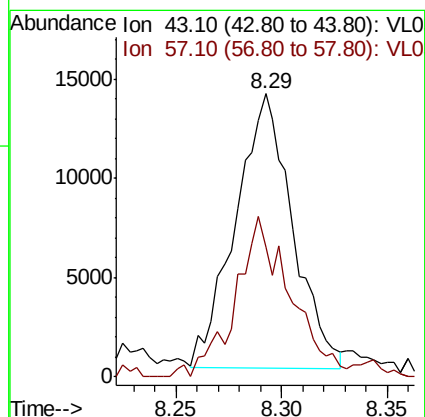
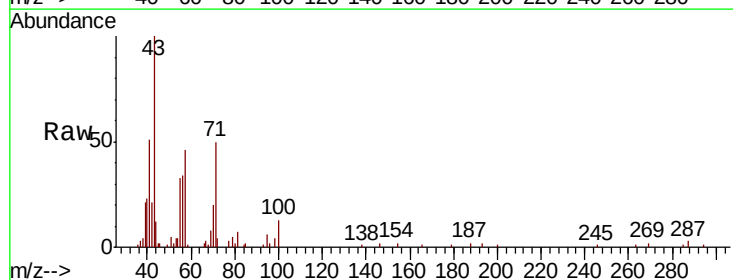
Acq: 6 Sep 2018 5:08

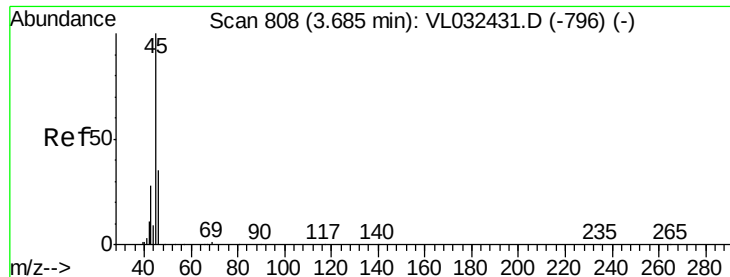
Tgt Ion: 43 Resp: 25891

Ion Ratio Lower Upper

43 100

57 59.5 39.6 59.4#





#13

Ethanol

Concen: 7.312 ppbv

RT: 3.68 min Scan# 807

Delta R.T. -0.00 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Instrument :

MSVOA_L

ClientSampleId :

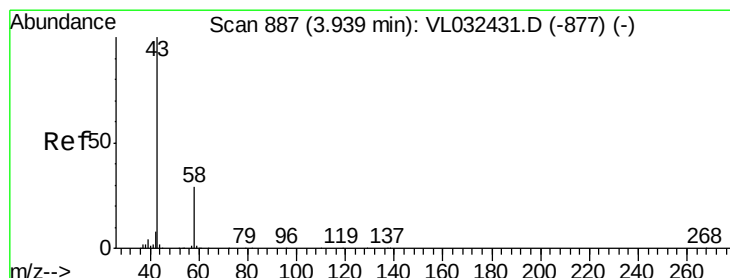
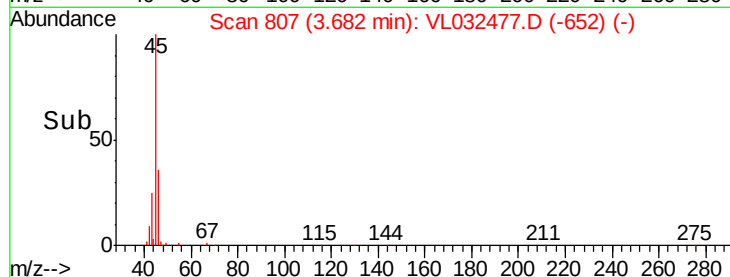
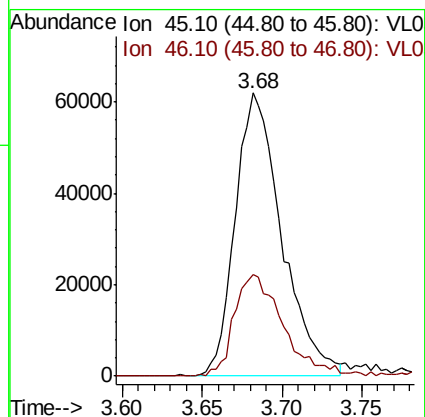
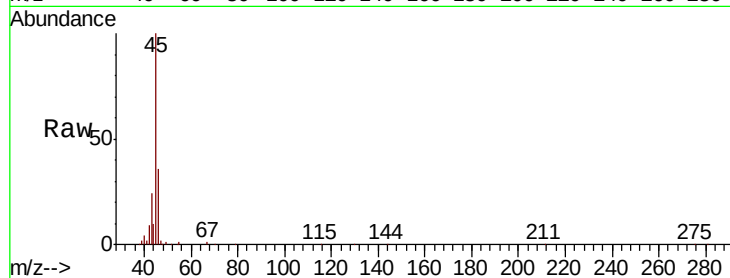
VP-7DL

Tgt Ion: 45 Resp: 123125

Ion Ratio Lower Upper

45 100

46 38.1 14.2 56.8



#15

Acetone

Concen: 10.777 ppbv

RT: 3.93 min Scan# 884

Delta R.T. -0.01 min

Lab File: VL032477.D

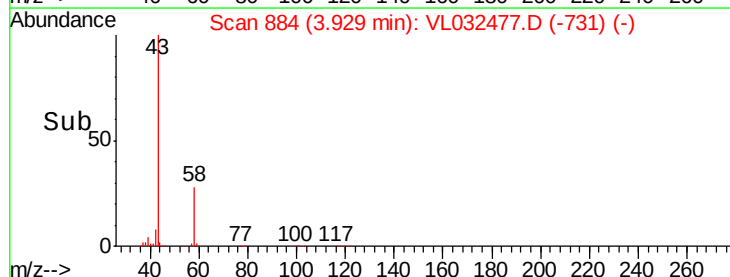
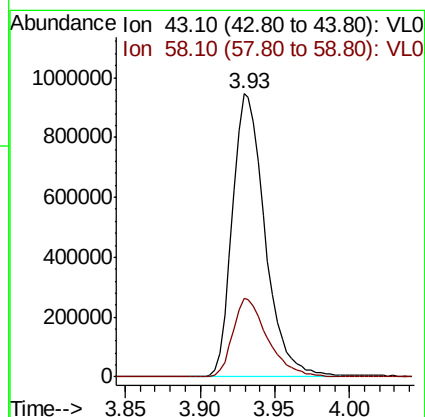
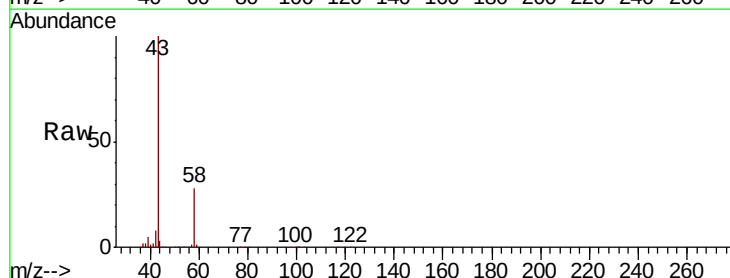
Acq: 6 Sep 2018 5:08

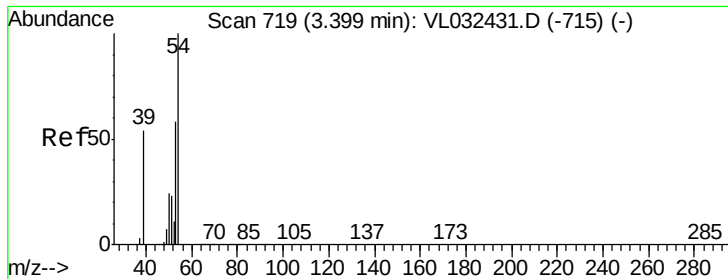
Tgt Ion: 43 Resp: 1435773

Ion Ratio Lower Upper

43 100

58 29.8 22.6 33.8

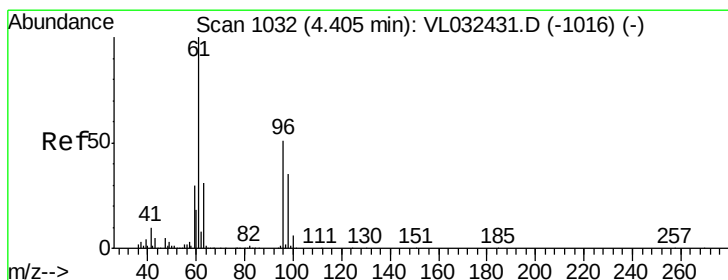
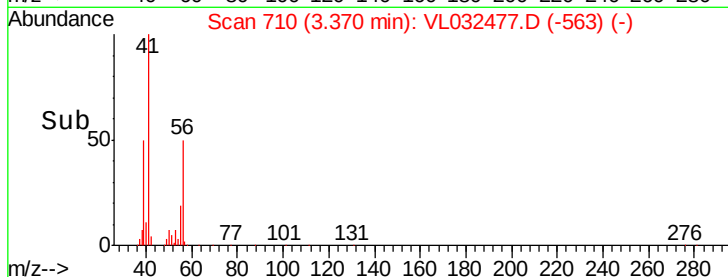
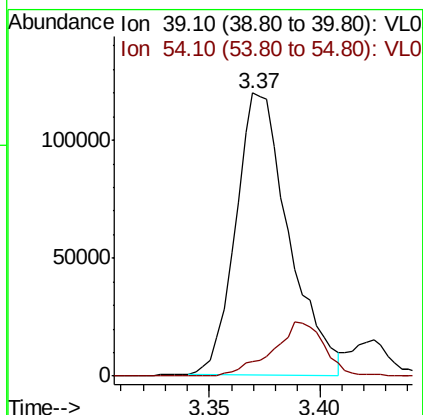
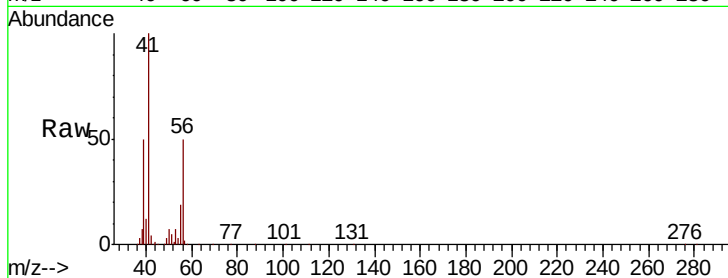




#16
 1,3-Butadiene
 Concen: 3.200 ppbv
 RT: 3.37 min Scan# 710
 Delta R.T. -0.03 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

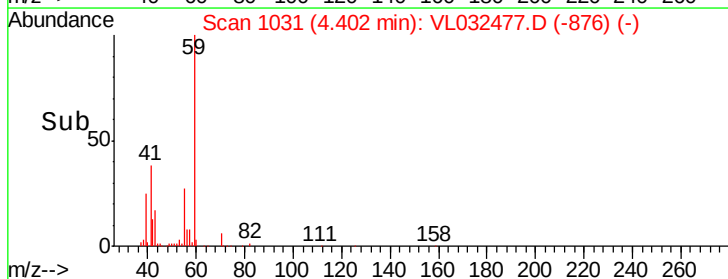
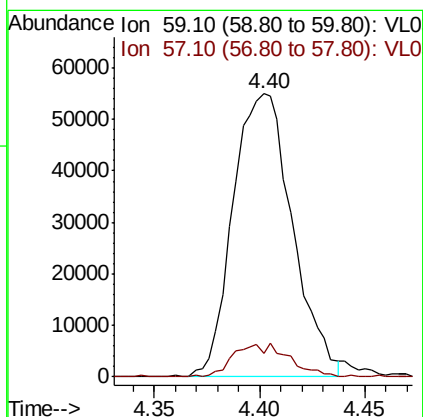
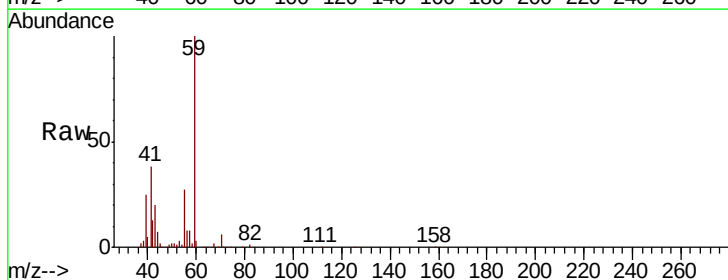
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-7DL

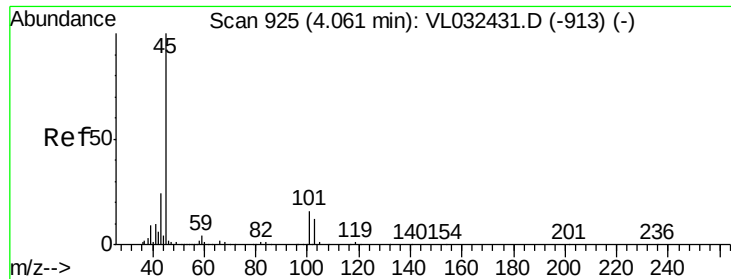
Tgt Ion: 39 Resp: 200592
 Ion Ratio Lower Upper
 39 100
 54 18.8 80.8 121.2#



#17
 tert-Butyl alcohol
 Concen: 5.250 ppbv
 RT: 4.40 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

Tgt Ion: 59 Resp: 107637
 Ion Ratio Lower Upper
 59 100
 57 11.1 0.0 0.0#





#19

Isopropyl Alcohol

Concen: 0.167 ppbv

RT: 4.06 min Scan# 925

Delta R.T. 0.00 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Instrument :

MSVOA_L

ClientSampleId :

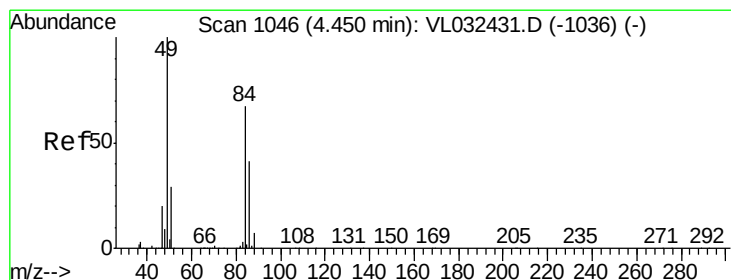
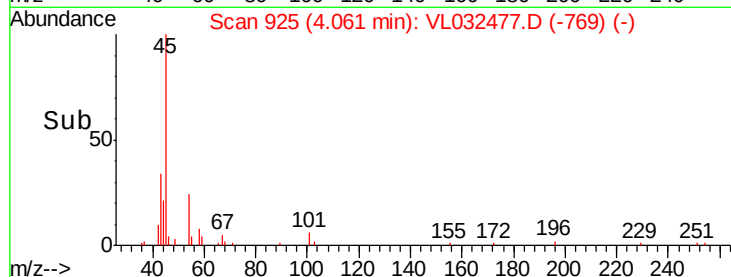
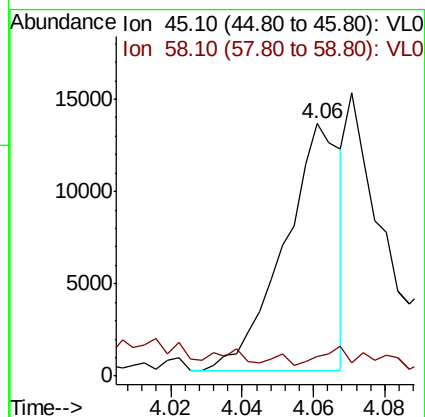
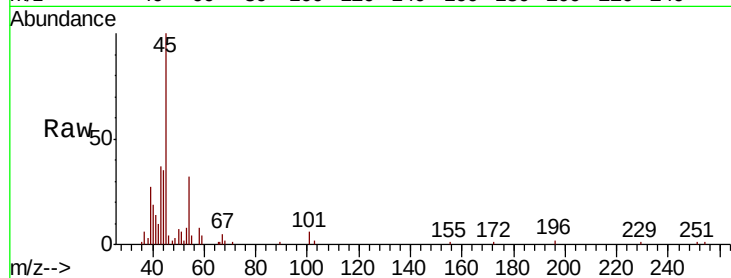
VP-7DL

Tgt Ion: 45 Resp: 14614

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.760 ppbv

RT: 4.44 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Tgt Ion: 84 Resp: 38629

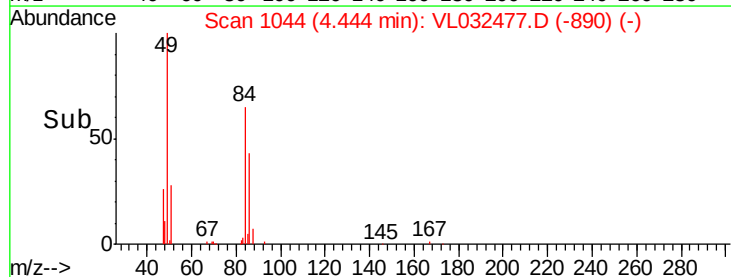
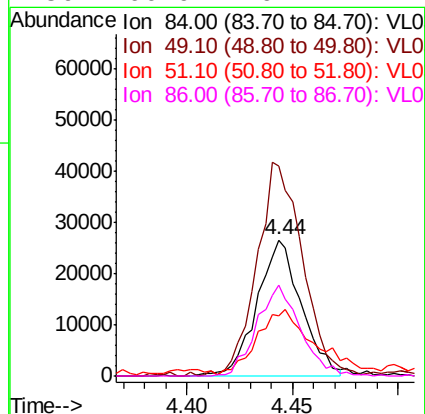
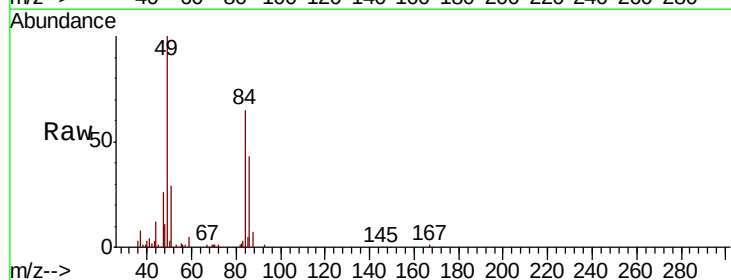
Ion Ratio Lower Upper

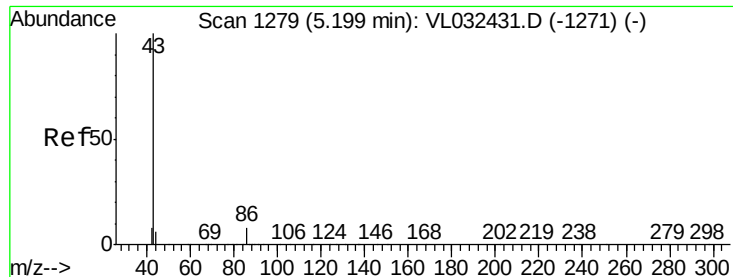
84 100

49 151.4 119.1 178.7

51 39.8 35.2 52.8

86 66.9 49.4 74.2

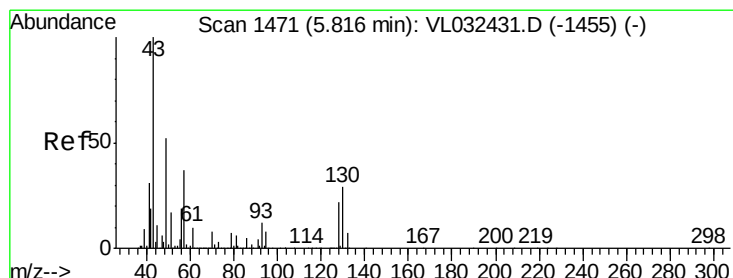
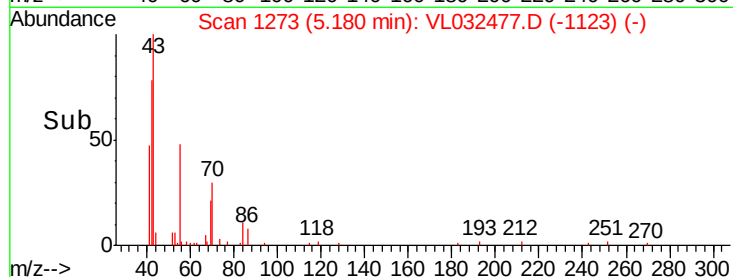
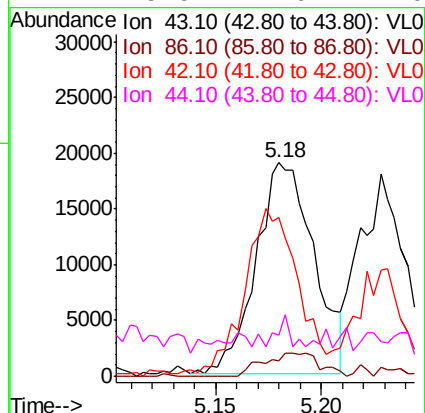
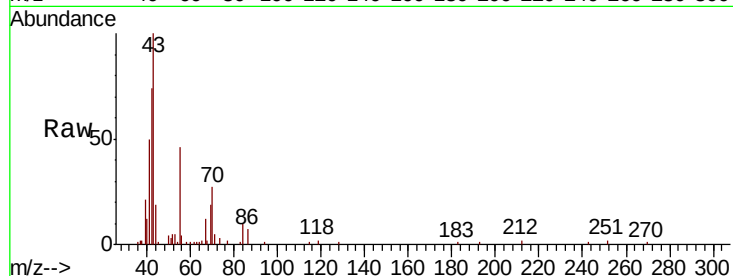




#23
 Vinyl Acetate
 Concen: 0.164 ppbv
 RT: 5.18 min Scan# 1273
 Delta R.T. -0.02 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

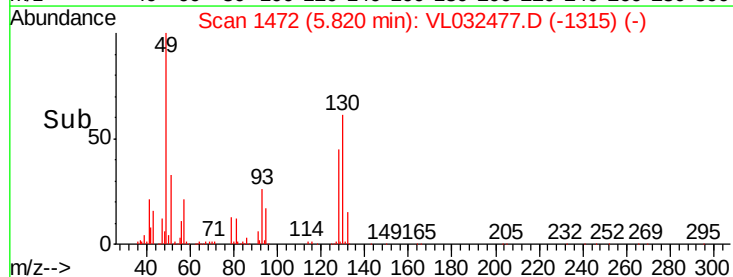
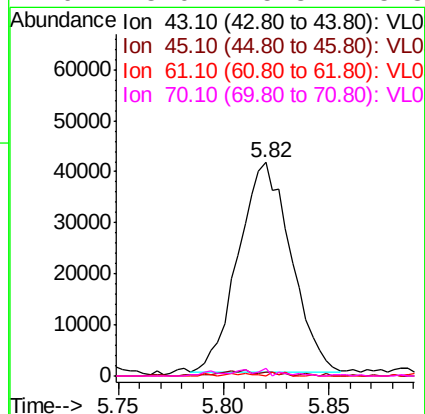
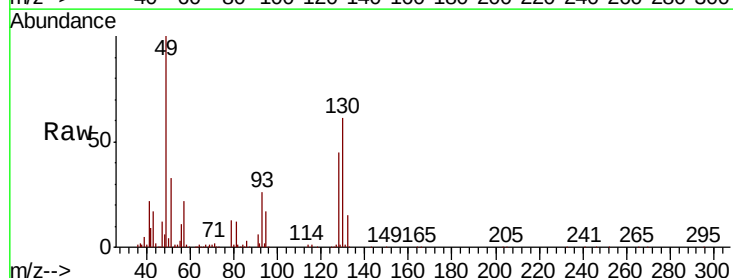
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-7DL

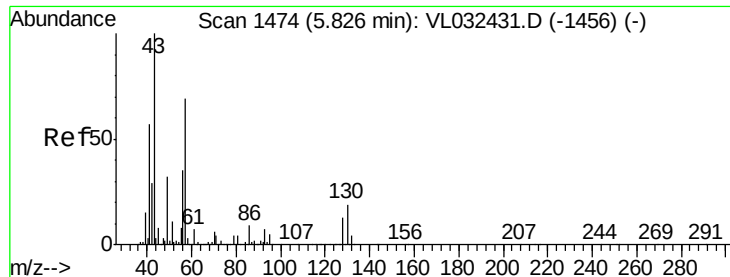
Tgt Ion:	43	Resp:	36186
Ion	Ratio	Lower	Upper
43	100		
86	7.3	5.9	8.9
42	71.2	6.9	10.3#
44	8.5	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.228 ppbv
 RT: 5.82 min Scan# 1472
 Delta R.T. 0.00 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

Tgt Ion:	43	Resp:	71768
Ion	Ratio	Lower	Upper
43	100		
45	3.1	8.0	12.0#
61	0.5	7.6	11.4#
70	3.0	5.8	8.8#





#26

Hexane

Concen: 0.689 ppbv

RT: 5.82 min Scan# 1473

Delta R.T. -0.00 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Instrument :

MSVOA_L

ClientSampleId :

VP-7DL

Tgt Ion: 57 Resp: 97066

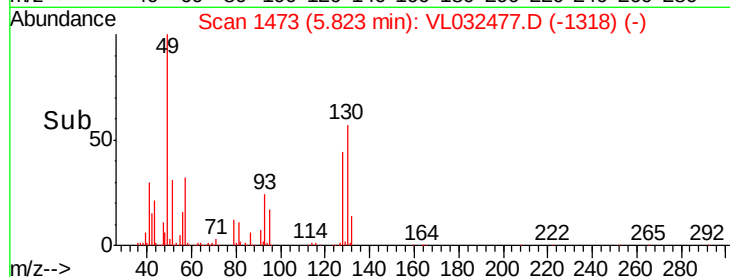
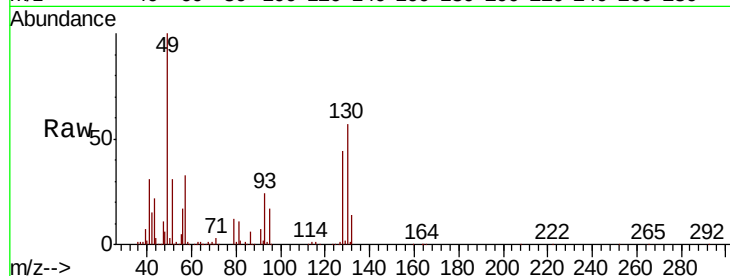
Ion Ratio Lower Upper

57 100

41 103.5 69.0 103.4#

43 76.9 172.1 258.1#

56 59.3 42.2 63.2

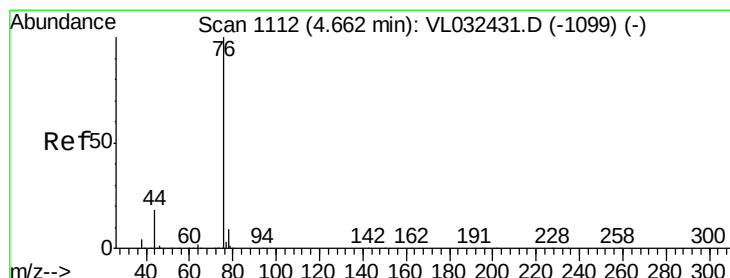
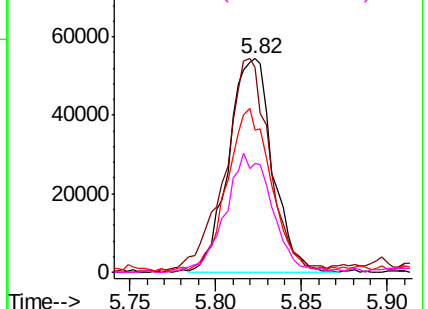


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.162 ppbv

RT: 4.66 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

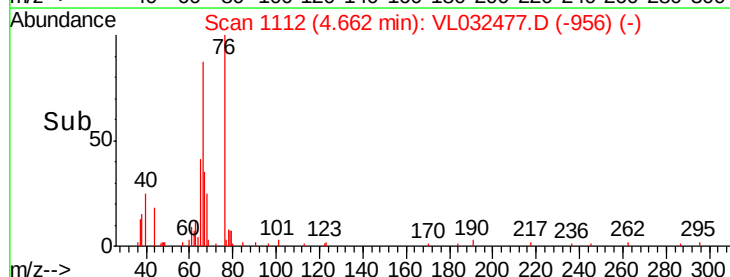
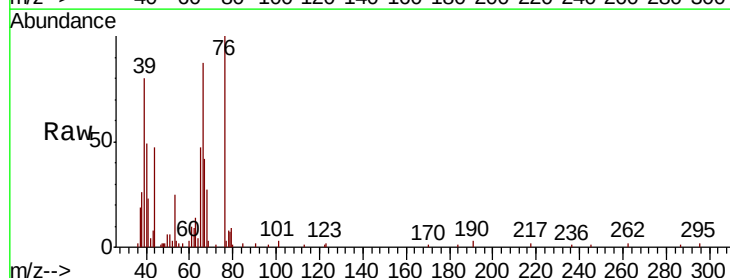
Tgt Ion: 76 Resp: 21131

Ion Ratio Lower Upper

76 100

44 25.6 14.0 21.0#

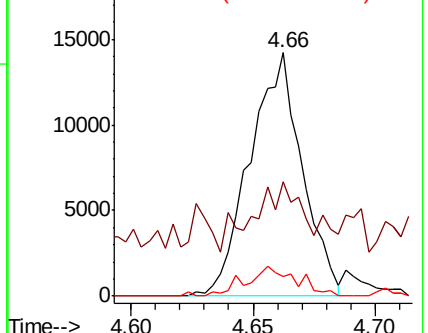
78 12.0 7.5 11.3#

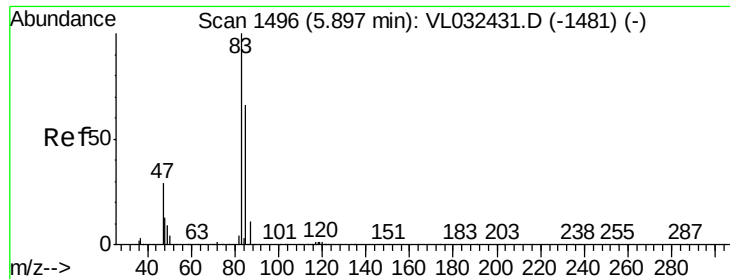


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.050 ppbv

RT: 5.88 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Instrument :

MSVOA_L

ClientSampleId :

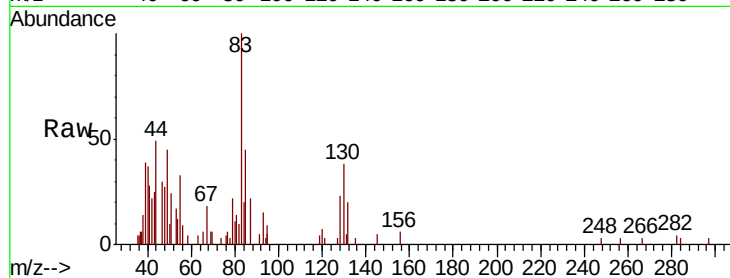
VP-7DL

Tgt Ion: 83 Resp: 10700

Ion Ratio Lower Upper

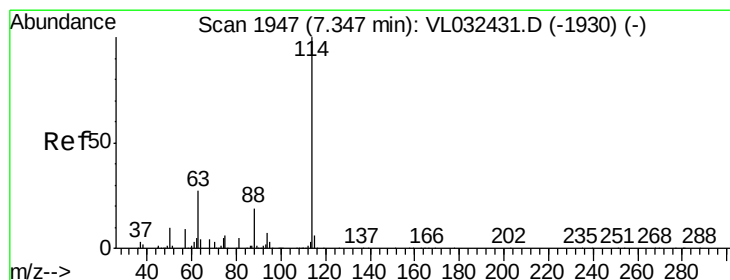
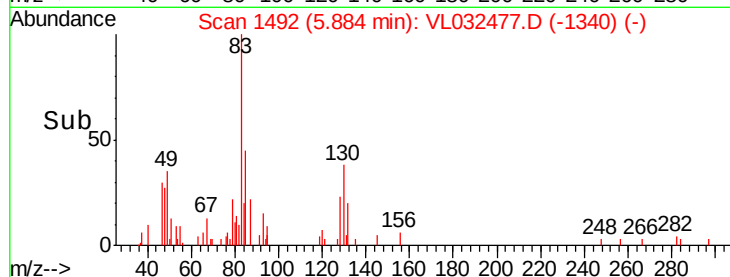
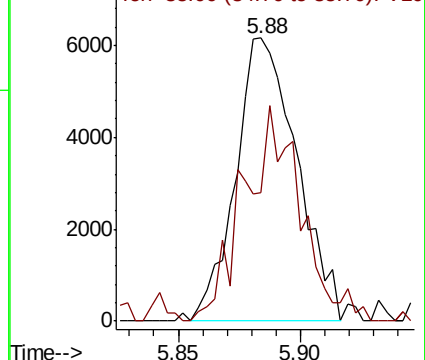
83 100

85 45.2 52.5 78.7#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.33 min Scan# 1943

Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

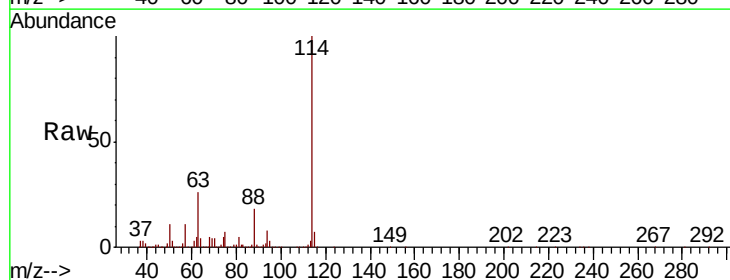
Tgt Ion: 114 Resp: 2990173

Ion Ratio Lower Upper

114 100

63 26.5 22.2 33.4

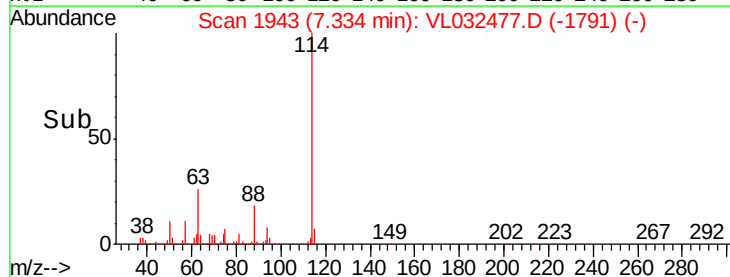
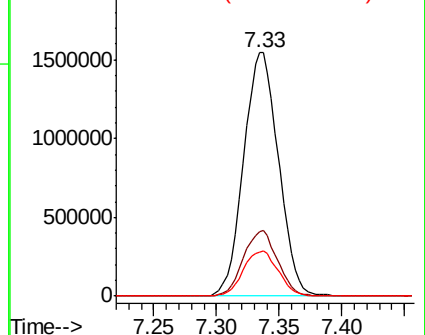
88 18.6 15.0 22.4

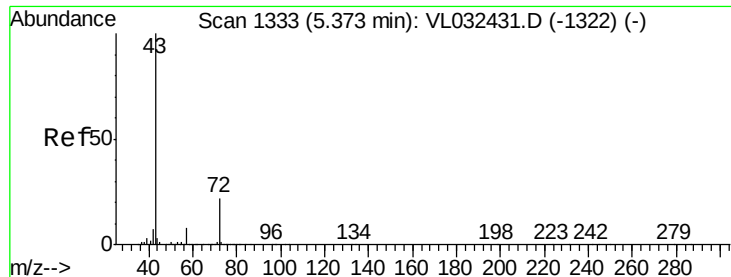


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

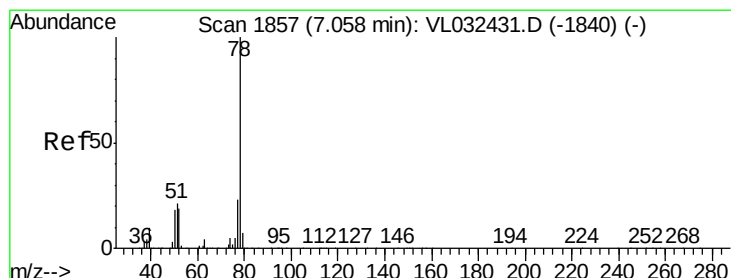
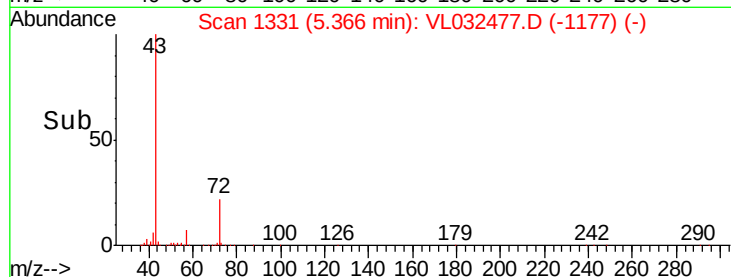
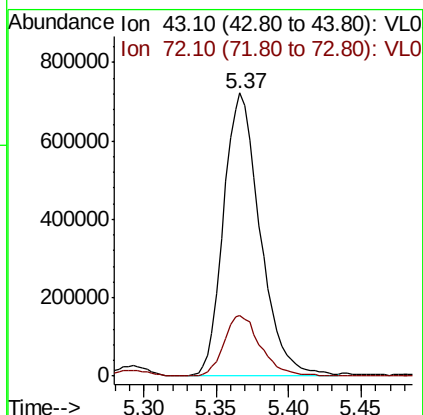
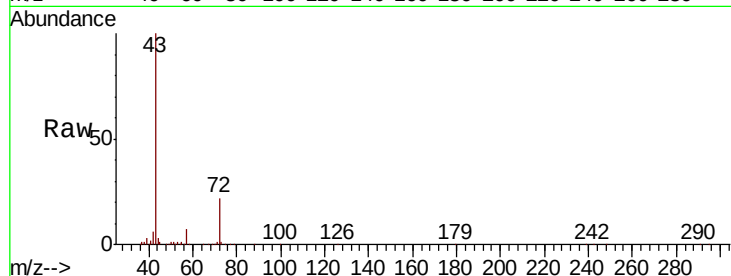




#34
2-Butanone
Concen: 6.344 ppbv
RT: 5.37 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

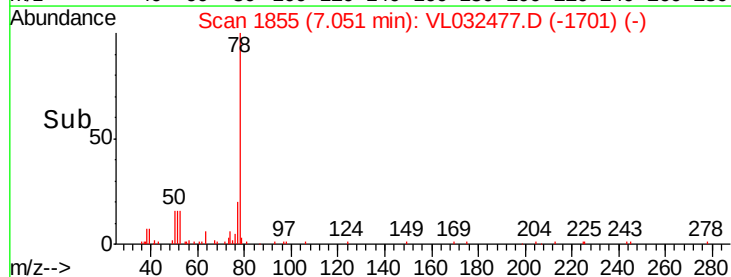
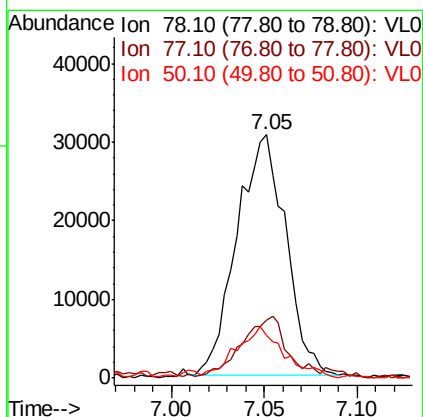
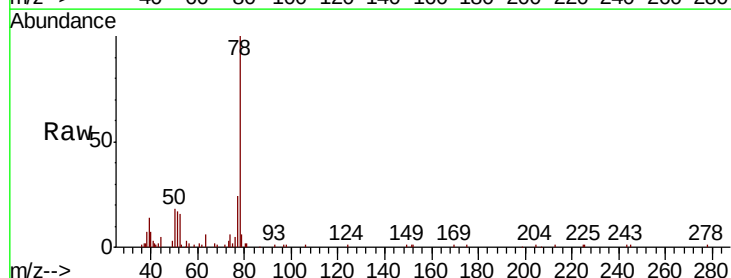
Instrument :
MSVOA_L
ClientSampleId :
VP-7DL

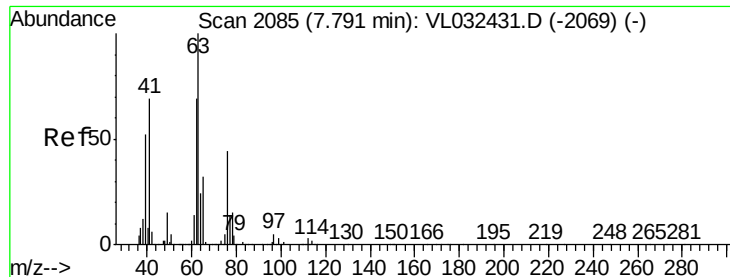
Tgt Ion: 43 Resp: 1259926
Ion Ratio Lower Upper
43 100
72 21.5 17.8 26.6



#36
Benzene
Concen: 0.221 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Tgt Ion: 78 Resp: 56185
Ion Ratio Lower Upper
78 100
77 22.4 18.4 27.6
50 17.8 14.4 21.6





#39

1,2-Dichloropropane

Concen: 7.236 ppbv

RT: 7.34 min Scan# 1944

Delta R.T. -0.45 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Instrument :

MSVOA_L

ClientSampleId :

VP-7DL

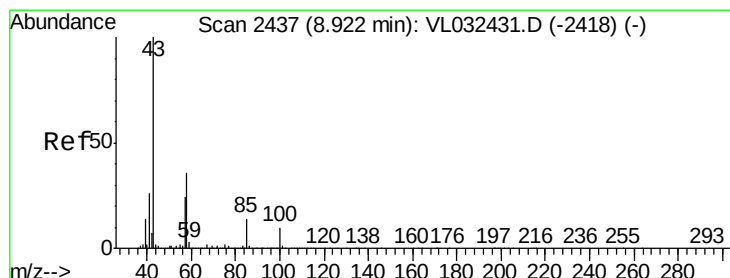
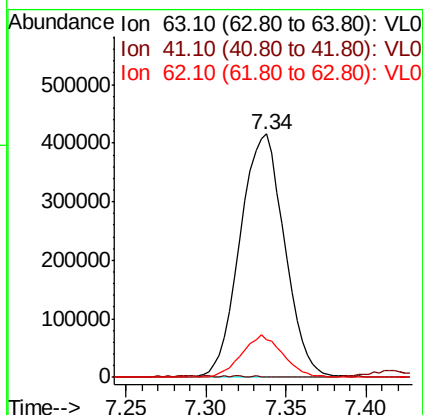
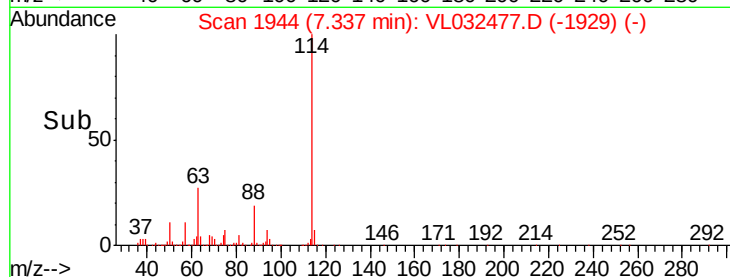
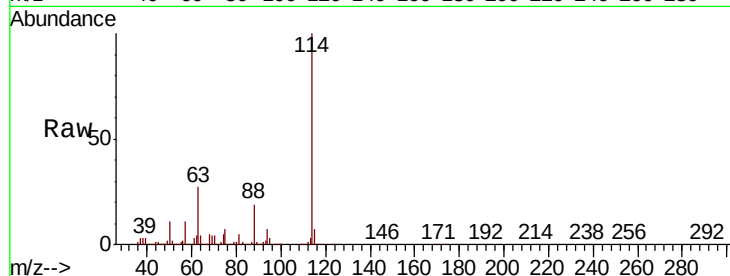
Tgt Ion: 63 Resp: 787769

Ion Ratio Lower Upper

63 100

41 0.1 55.4 83.0#

62 15.5 55.4 83.0#



#50

4-Methyl-2-Pentanone

Concen: 0.167 ppbv

RT: 8.93 min Scan# 2439

Delta R.T. 0.01 min

Lab File: VL032477.D

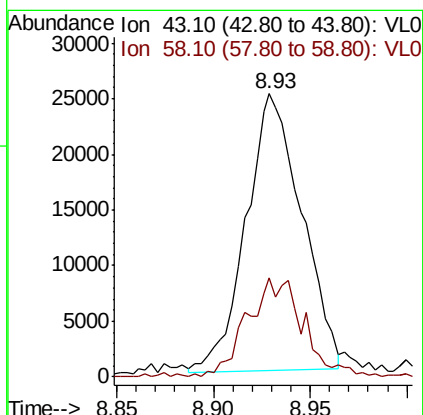
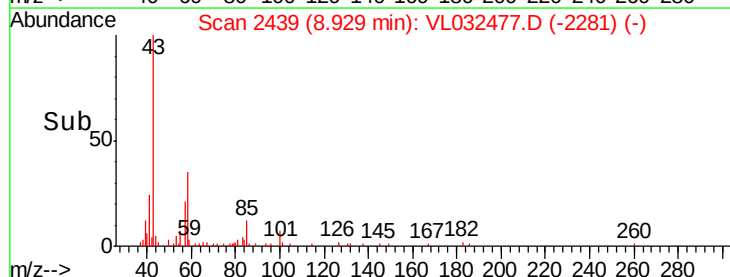
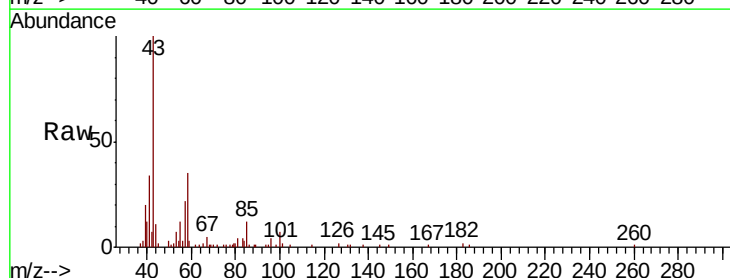
Acq: 6 Sep 2018 5:08

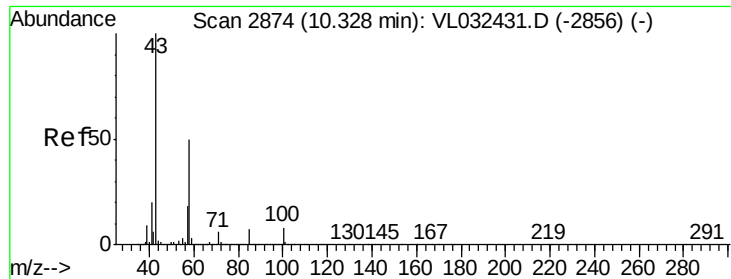
Tgt Ion: 43 Resp: 49842

Ion Ratio Lower Upper

43 100

58 37.0 29.0 43.4

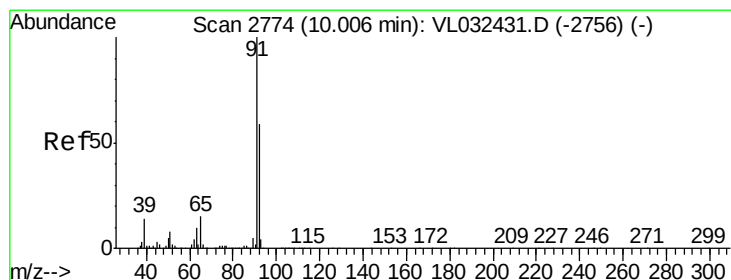
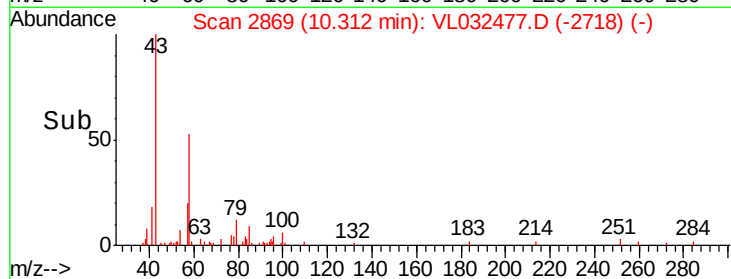
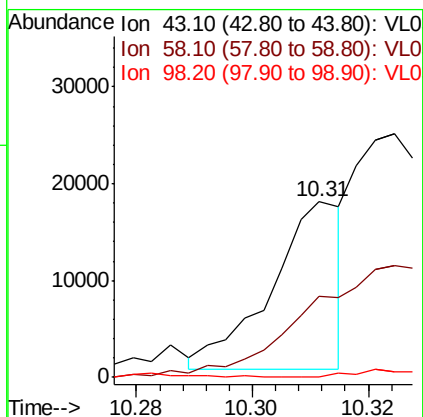
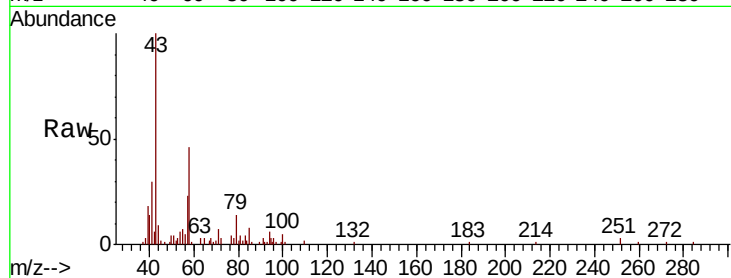




#51
2-Hexanone
Concen: 0.077 ppbv
RT: 10.31 min Scan# 2869
Delta R.T. -0.02 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

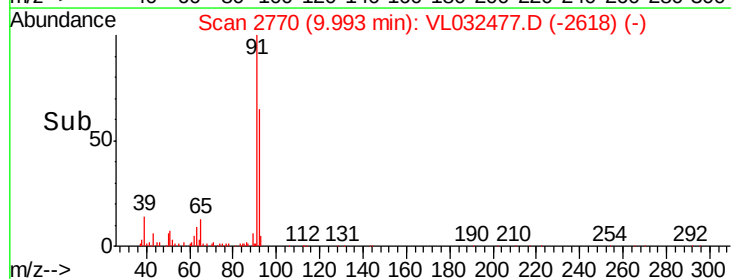
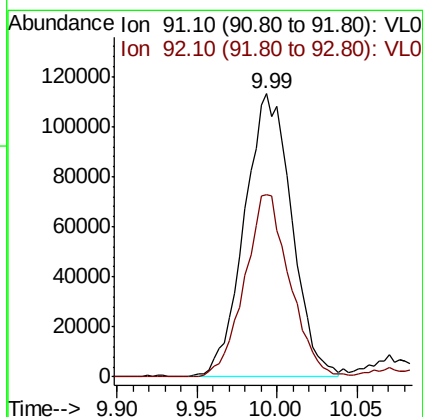
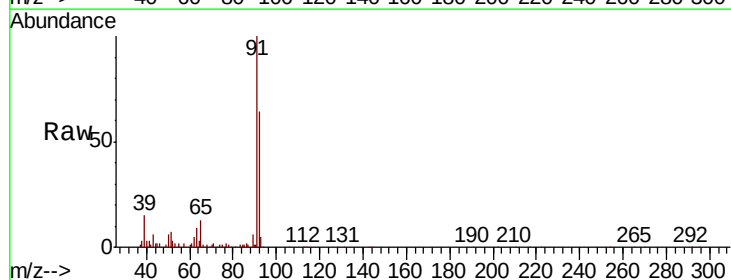
Instrument :
MSVOA_L
ClientSampleId :
VP-7DL

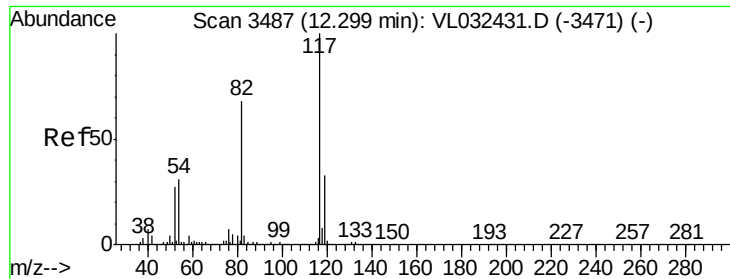
Tgt Ion: 43 Resp: 14860
Ion Ratio Lower Upper
43 100
58 0.0 39.2 58.8#
98 3.3 0.4 0.6#



#53
Toluene
Concen: 0.866 ppbv
RT: 9.99 min Scan# 2770
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Tgt Ion: 91 Resp: 230325
Ion Ratio Lower Upper
91 100
92 61.6 48.1 72.1

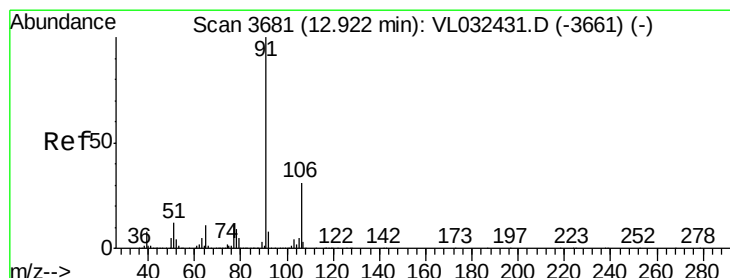
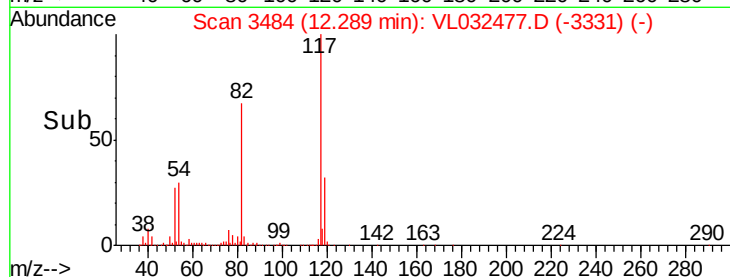
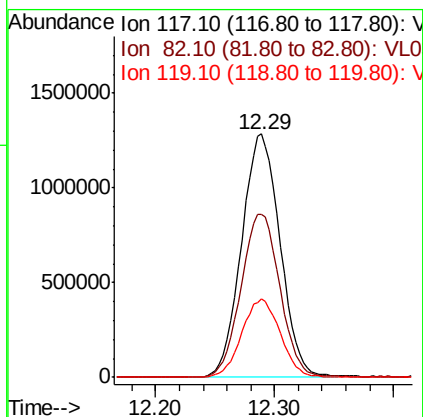
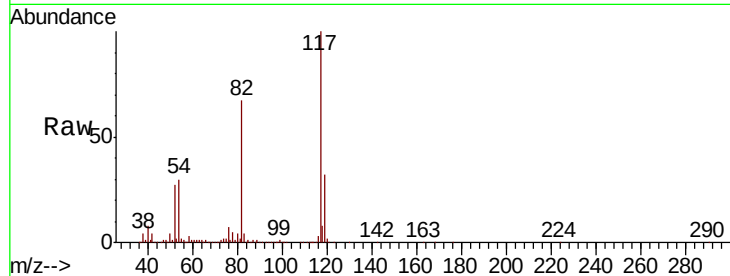




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3484
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

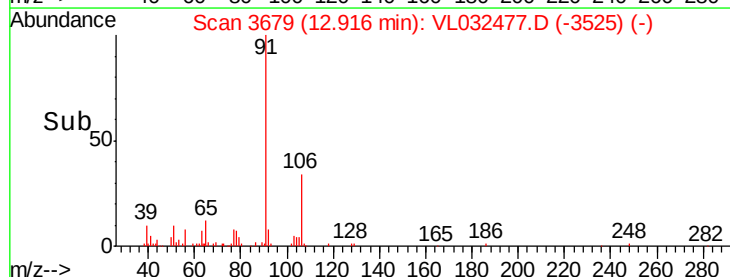
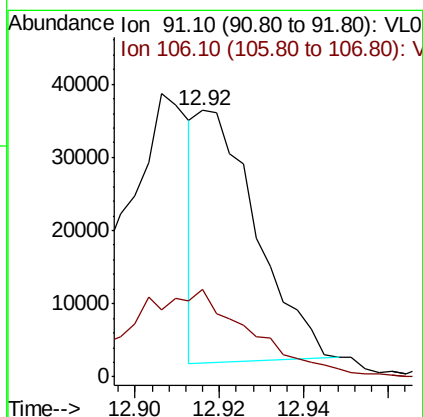
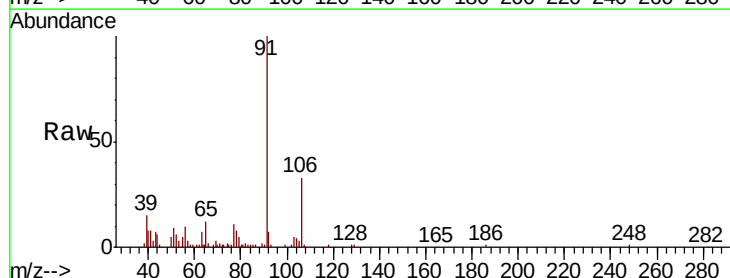
Instrument :
MSVOA_L
ClientSampleId :
VP-7DL

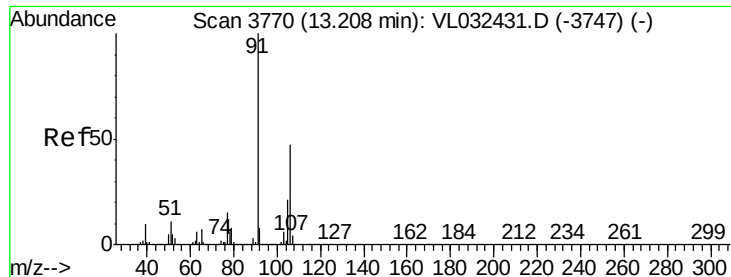
Tgt Ion: 117 Resp: 2873739
Ion Ratio Lower Upper
117 100
82 68.0 53.0 79.6
119 32.4 45.9 68.9#



#58
Ethyl Benzene
Concen: 0.097 ppbv
RT: 12.92 min Scan# 3679
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Tgt Ion: 91 Resp: 33434
Ion Ratio Lower Upper
91 100
106 32.1 24.8 37.2

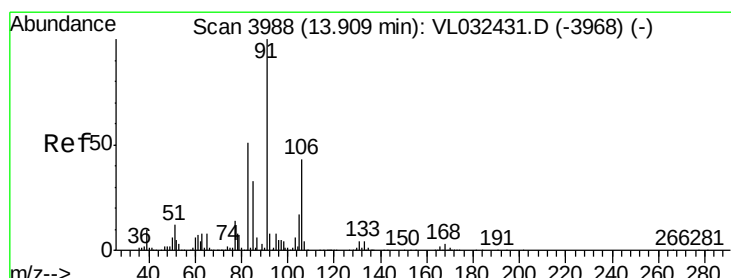
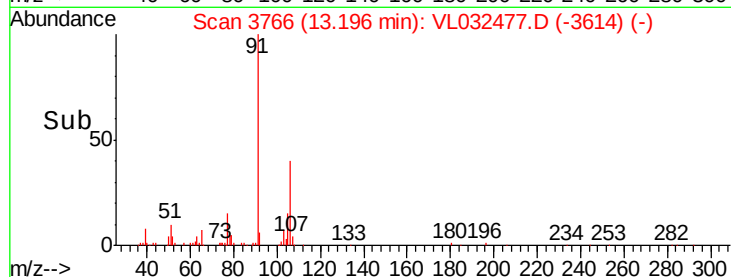
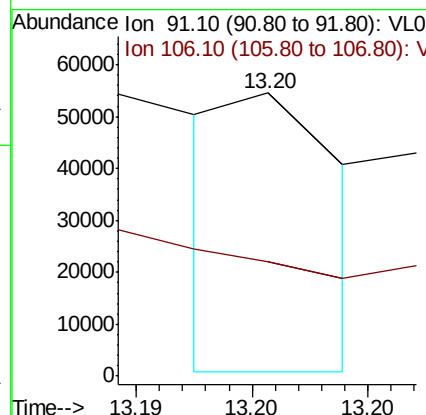
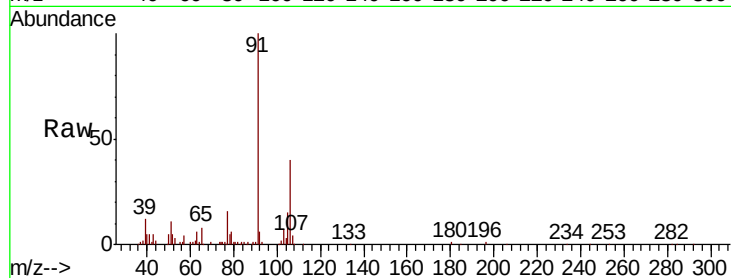




#59
m/p-Xylene
Concen: 0.059 ppbv
RT: 13.20 min Scan# 3766
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

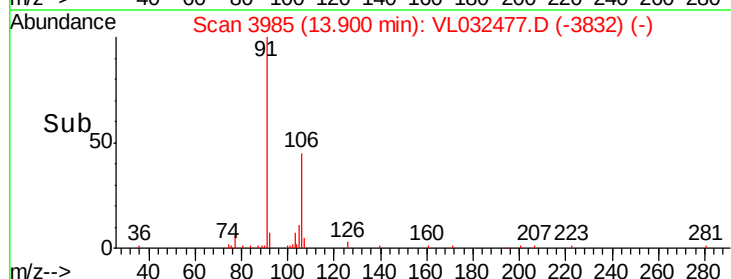
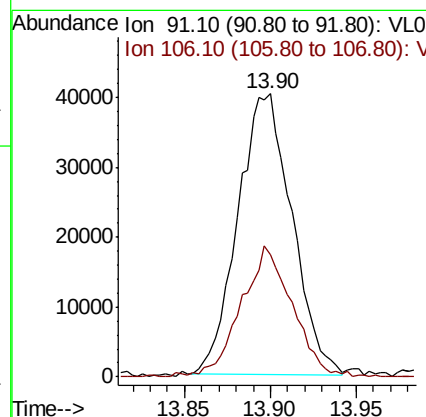
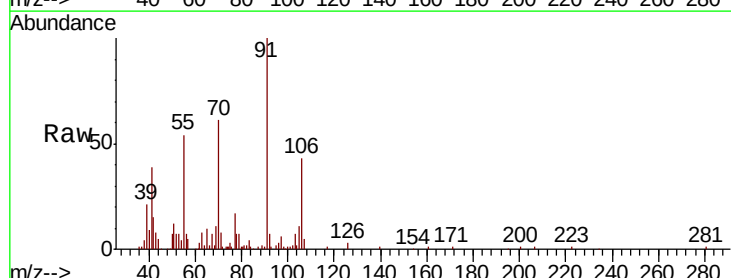
Instrument :
MSVOA_L
ClientSampleId :
VP-7DL

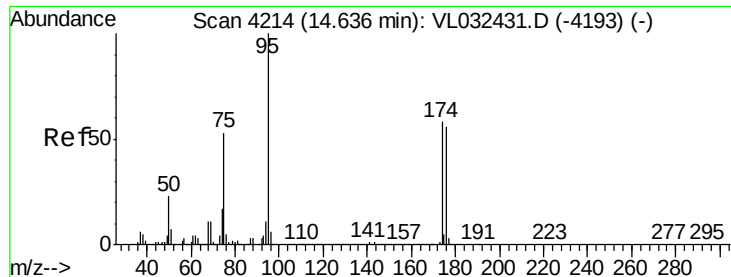
Tgt Ion: 91 Resp: 18108
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#



#60
o-Xylene
Concen: 0.292 ppbv
RT: 13.90 min Scan# 3985
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Tgt Ion: 91 Resp: 87956
Ion Ratio Lower Upper
91 100
106 44.2 21.9 65.7





#68

1-Bromo-4-Fluorobenzene

Concen: 10.462 ppbv

RT: 14.63 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Instrument :

MSVOA_L

ClientSampleId :

VP-7DL

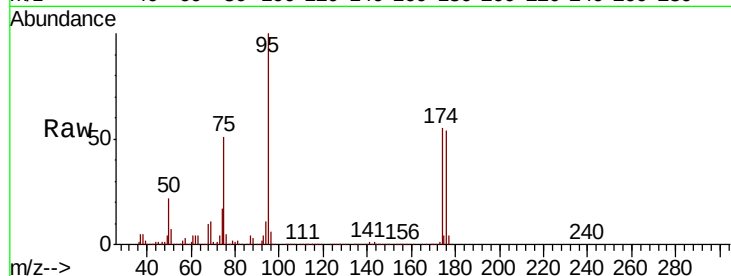
Tgt Ion: 95 Resp: 2232056

Ion Ratio Lower Upper

95 100

174 57.5 46.3 69.5

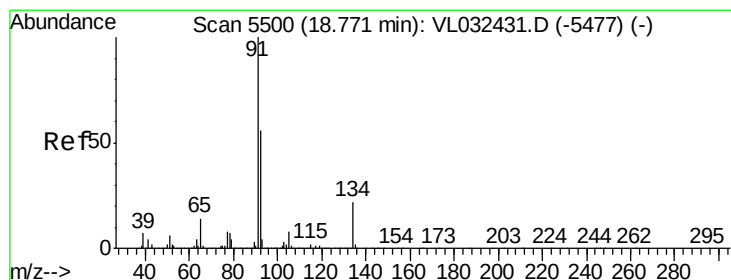
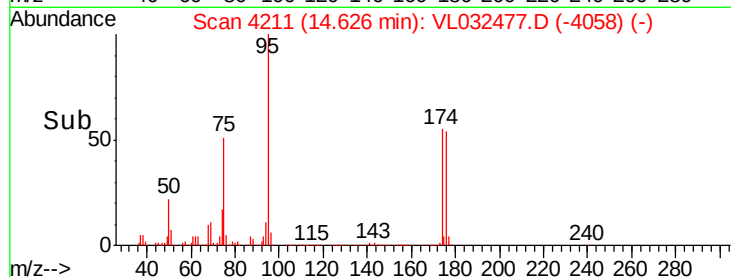
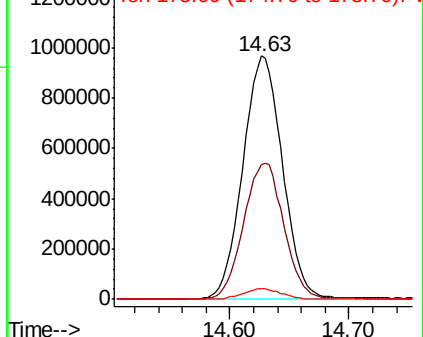
175 4.4 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): VL0

Ion 175.00 (174.70 to 175.70): VL0



#70

n-Butylbenzene

Concen: 0.043 ppbv

RT: 18.76 min Scan# 5498

Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

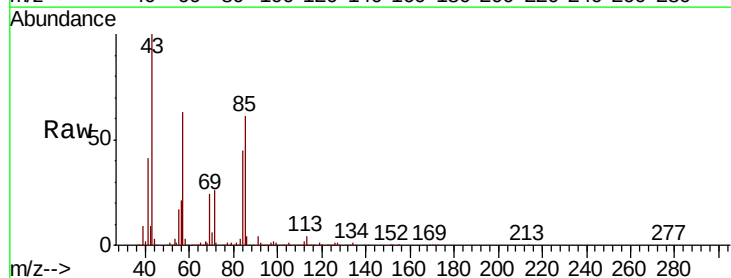
Tgt Ion: 91 Resp: 20842

Ion Ratio Lower Upper

91 100

92 0.0 43.8 65.8#

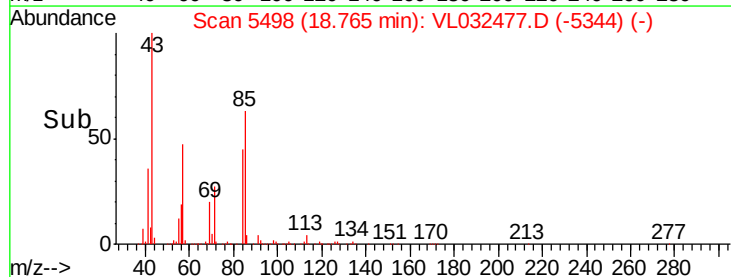
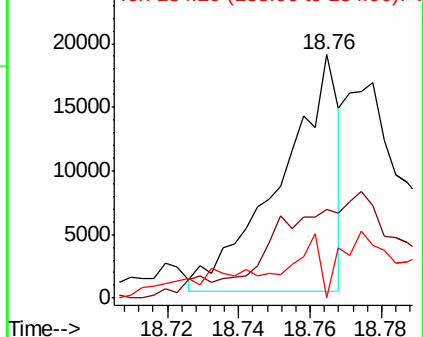
134 0.0 17.4 26.0#

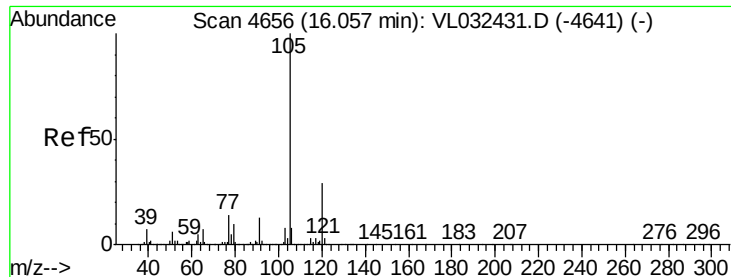


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): VL0





#72

4-Ethyltoluene

Concen: 0.093 ppbv

RT: 16.04 min Scan# 4652

Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

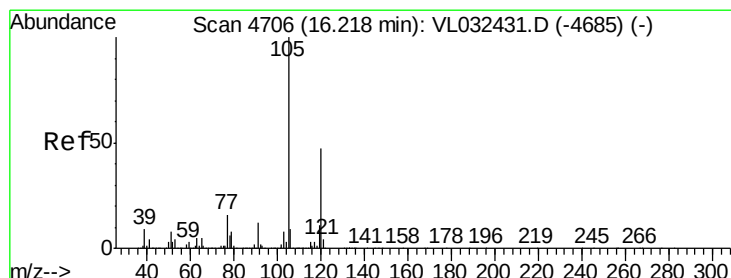
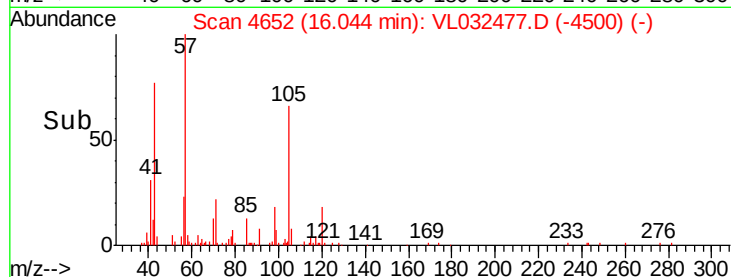
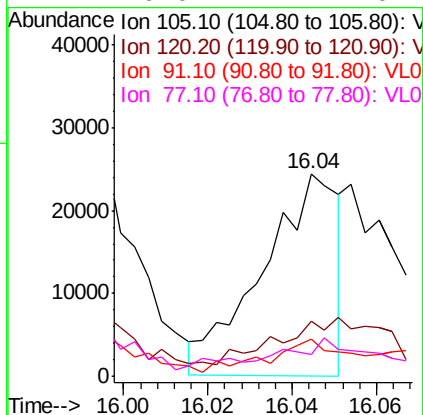
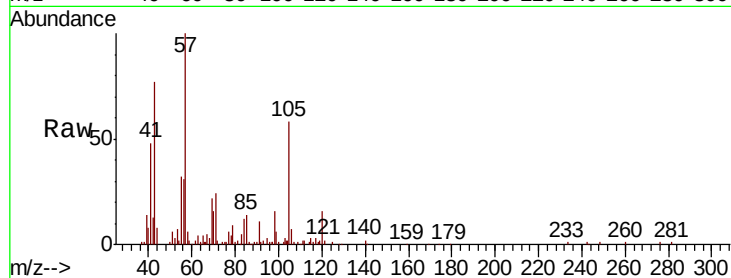
Instrument :

MSVOA_L

ClientSampleId :

VP-7DL

Tgt Ion:	105	Resp:	30426
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.5	35.3#
91	24.6	10.2	15.2#
77	0.0	11.1	16.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.085 ppbv

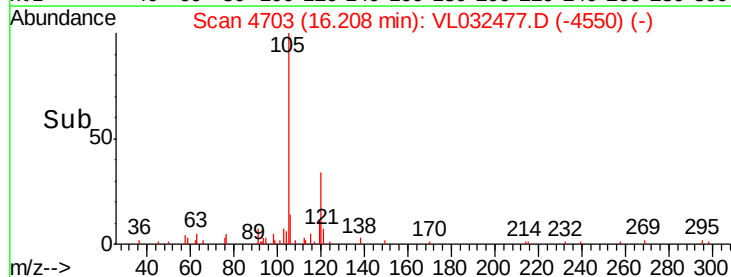
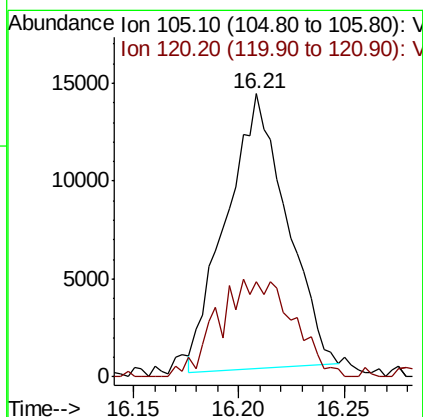
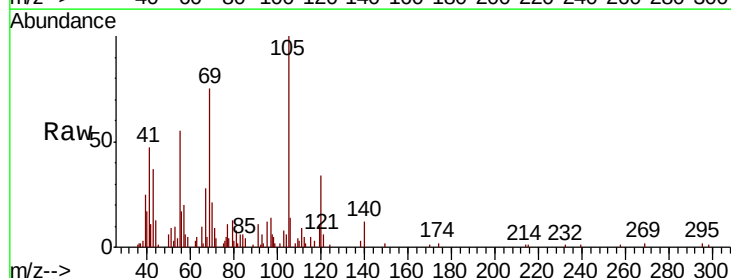
RT: 16.21 min Scan# 4703

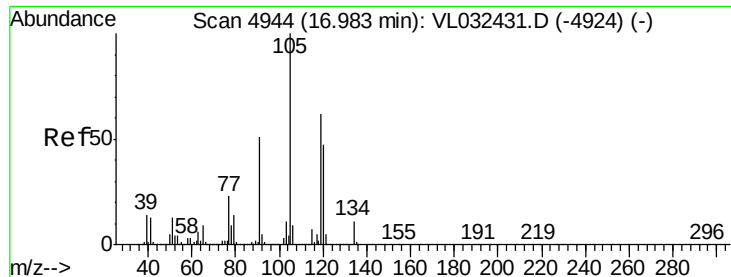
Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Tgt Ion:	105	Resp:	28002
Ion Ratio	Lower	Upper	
105	100		
120	32.4	37.9	56.9#





#74

1,2,4-Trimethylbenzene

Concen: 0.320 ppbv

RT: 16.98 min Scan# 4942

Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

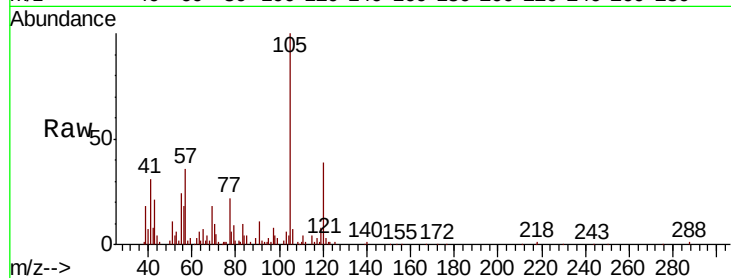
Instrument :

MSVOA_L

ClientSampleId :

VP-7DL

Tgt Ion:	105	Resp:	115348
Ion Ratio		Lower	Upper
105	100		
120	38.6	37.8	56.8
91	8.5	41.4	62.0#
77	17.5	18.6	28.0#

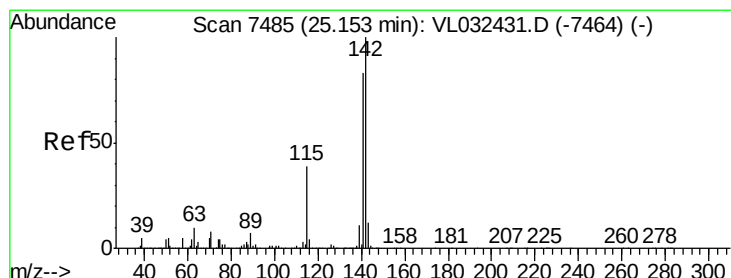
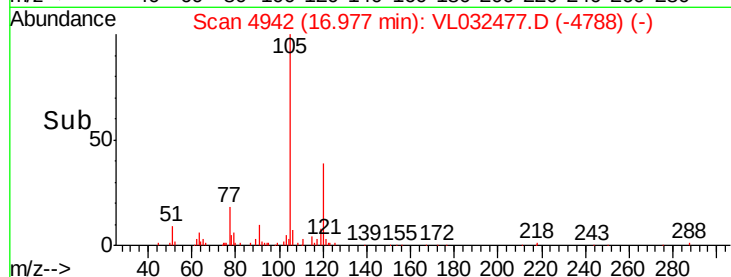
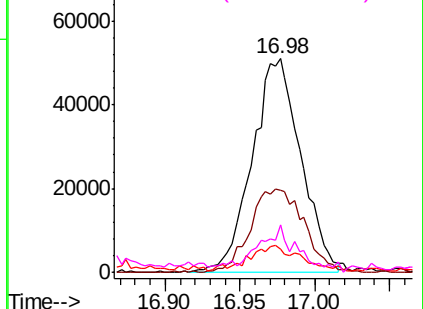


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#80

Naphthalene, 2-methyl-

Concen: 0.044 ppbv

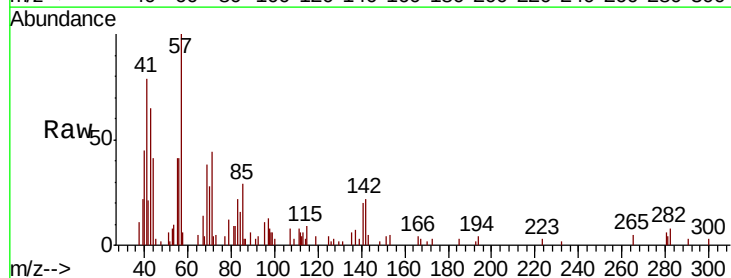
RT: 25.16 min Scan# 7486

Delta R.T. 0.00 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Tgt Ion:	142	Resp:	3412
Ion Ratio		Lower	Upper
142	100		
141	66.4	67.0	100.6#
115	43.8	31.3	46.9



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

