

Data File : VL034787.D
Acq On : 4 Mar 2020 10:12
Operator : SY/AP
Sample : L1314-01DL 4X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
E051-1100DL

Quant Time: Mar 04 10:42:47 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	986553	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.19	114	2120903	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.12	117	2044086	10.00	ppbv	-0.02

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.46 95 1772047 10.40 ppbv -0.02
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.00%

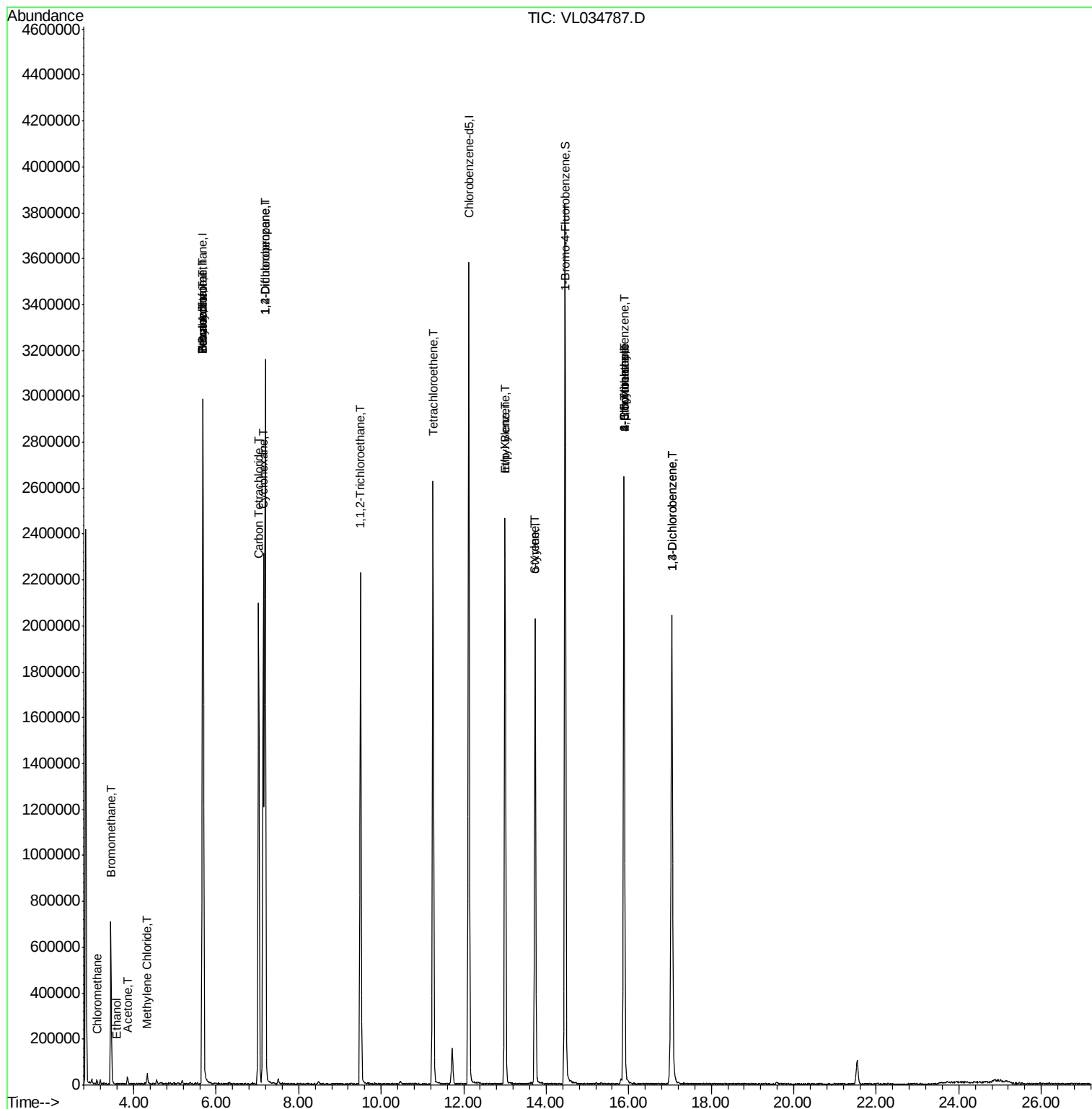
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.11	50	7397	0.122	ppbv	89
6) Bromomethane	3.45	94	358411	10.268	ppbv	96
13) Ethanol	3.59	45	643	0.042	ppbv #	38
15) Acetone	3.85	43	24295	0.206	ppbv #	65
20) Methylene Chloride	4.33	84	8583	0.204	ppbv #	68
25) Ethyl Acetate	5.69	43	578064	2.832	ppbv #	76
26) Hexane	5.69	57	844153	9.465	ppbv #	42
30) Cyclohexane	7.14	84	747980	10.962	ppbv	98
34) 2-Butanone	5.69	43	578064	4.189	ppbv #	54
35) Carbon Tetrachloride	7.03	117	1249330	7.807	ppbv	98
39) 1,2-Dichloropropane	7.19	63	610547	8.348	ppbv #	24
41) Tetrahydrofuran	5.68	42	317514	4.510	ppbv #	48
47) 1,1,2-Trichloroethane	9.50	97	716233	9.276	ppbv	96
52) Tetrachloroethene	11.26	164	346288	5.172	ppbv	94
58) Ethyl Benzene	13.00	91	1740433	6.909	ppbv #	71
59) m/p-Xylene	13.00	91	1740433	7.982	ppbv	98
60) o-Xylene	13.73	91	1488020	6.745	ppbv	97
61) Styrene	13.72	104	30430	0.222	ppbv #	1
64) n-propylbenzene	15.89	120	614328	7.545	ppbv #	1
71) 2-Chlorotoluene	15.88	91	152147	0.620	ppbv #	46
72) 4-Ethyltoluene	15.88	105	2153821	8.768	ppbv	99
73) 1,3,5-Trimethylbenzene	15.88	105	2153821	9.141	ppbv #	77
75) 1,3-Dichlorobenzene	17.05	146	932367	6.149	ppbv	98
76) 1,4-Dichlorobenzene	17.05	146	932367	6.426	ppbv	97

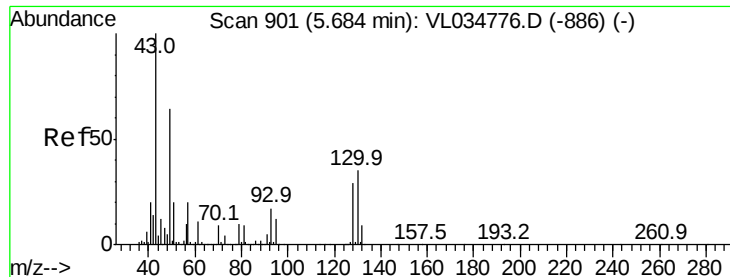
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL034787.D
Acq On : 4 Mar 2020 10:12
Operator : SY/AP
Sample : L1314-01DL 4X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
E051-1100DL

Quant Time: Mar 04 10:42:47 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL034787.D

Acq: 4 Mar 2020 10:12

Instrument :

MSVOA_L

ClientSampleId :

E051-1100DL

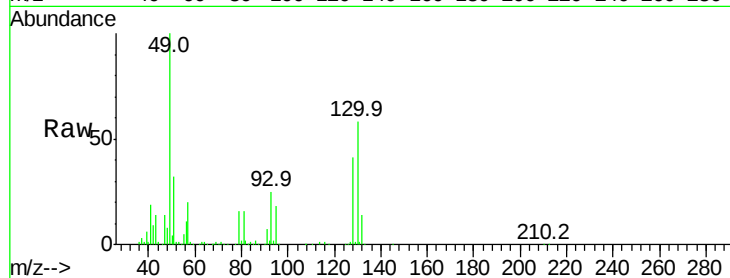
Tgt Ion: 49 Resp: 986553

Ion Ratio Lower Upper

49 100

128 44.0 21.6 64.6

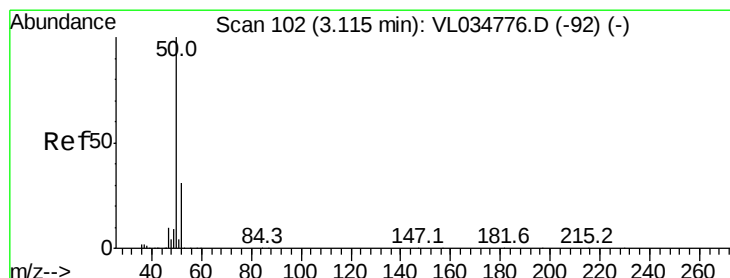
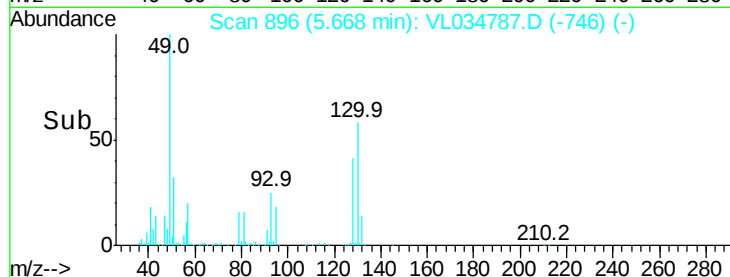
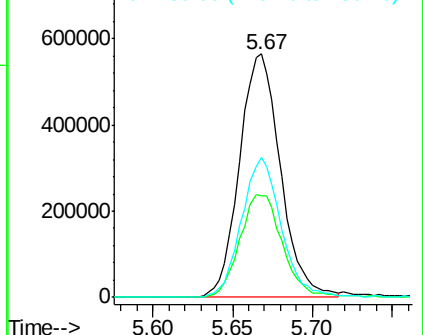
130 56.2 27.4 82.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#4

Chloromethane

Concen: 0.122 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034787.D

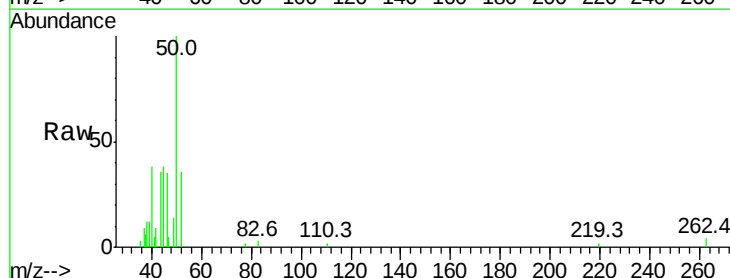
Acq: 4 Mar 2020 10:12

Tgt Ion: 50 Resp: 7397

Ion Ratio Lower Upper

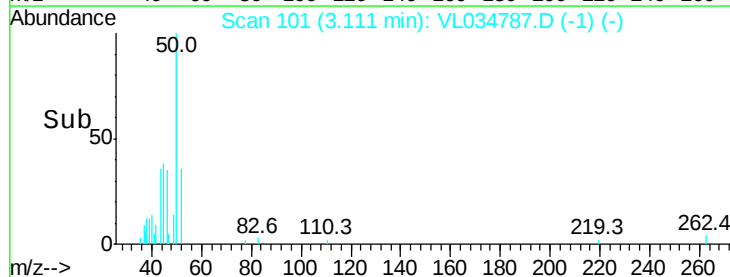
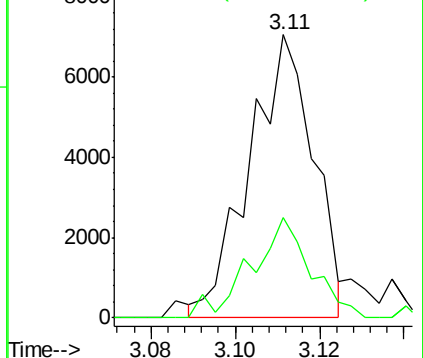
50 100

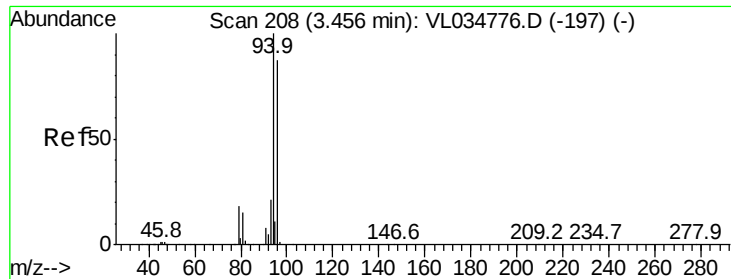
52 37.4 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#6

Bromomethane

Concen: 10.268 ppbv

RT: 3.45 min Scan# 206

Delta R.T. -0.01 min

Lab File: VL034787.D

Acq: 4 Mar 2020 10:12

Instrument :

MSVOA_L

ClientSampleID :

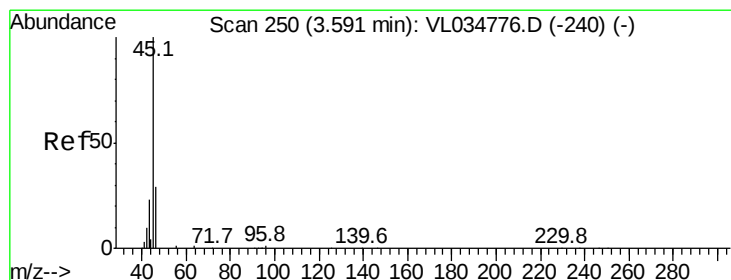
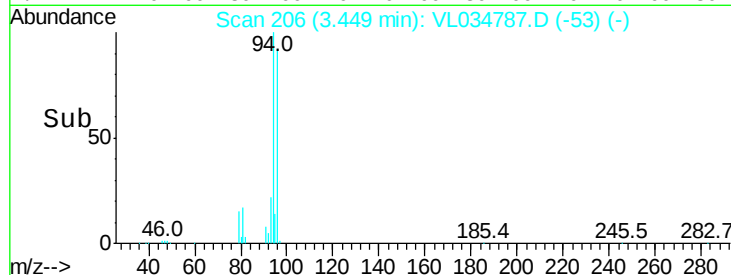
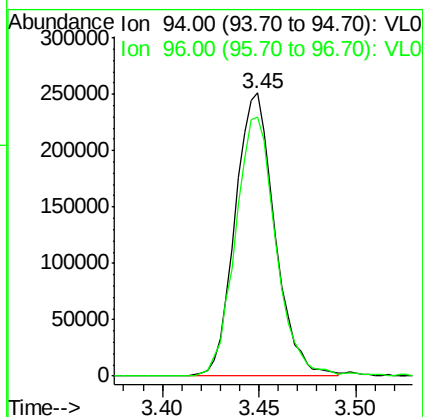
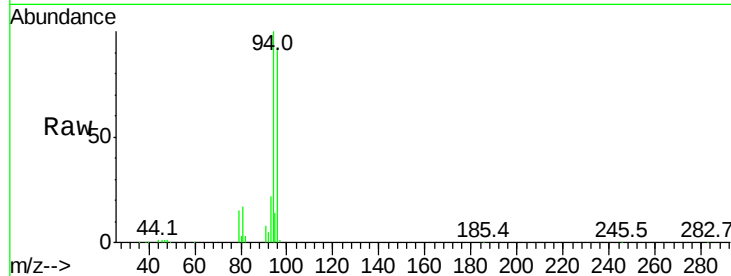
E051-1100DL

Tgt Ion: 94 Resp: 358411

Ion Ratio Lower Upper

94 100

96 91.5 70.0 105.0



#13

Ethanol

Concen: 0.042 ppbv

RT: 3.59 min Scan# 251

Delta R.T. 0.00 min

Lab File: VL034787.D

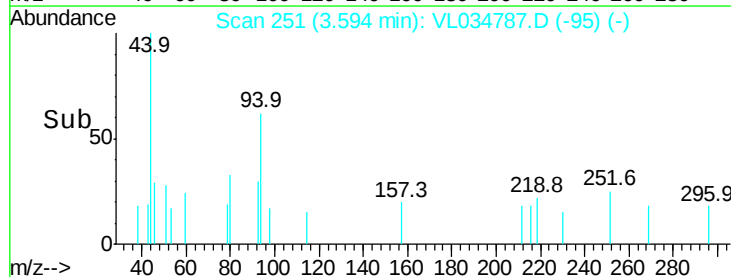
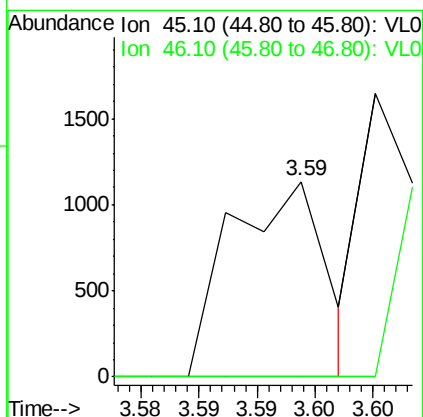
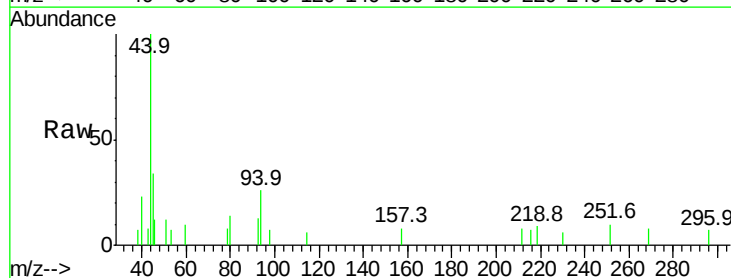
Acq: 4 Mar 2020 10:12

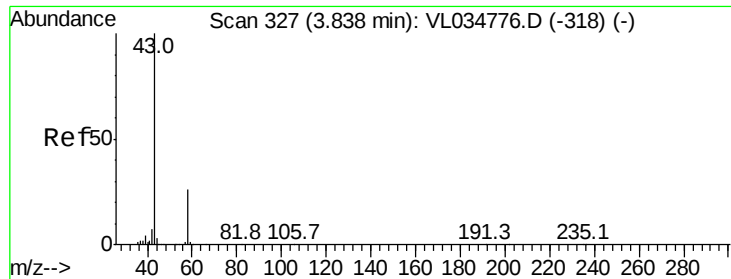
Tgt Ion: 45 Resp: 643

Ion Ratio Lower Upper

45 100

46 0.0 14.7 58.9#

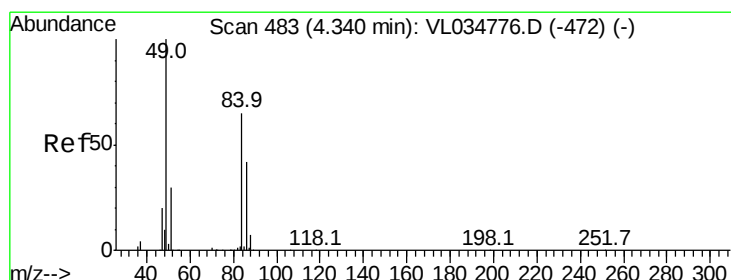
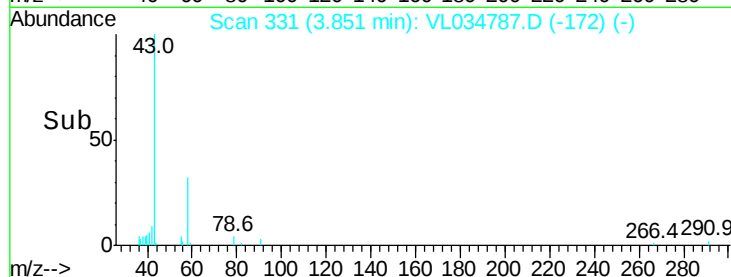
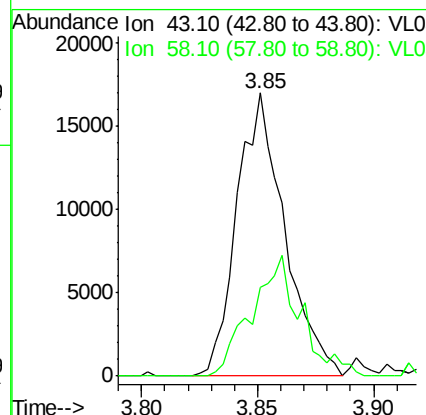
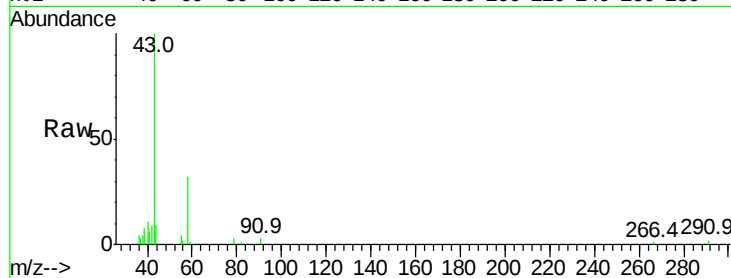




#15
Acetone
Concen: 0.206 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL034787.D
Acq: 4 Mar 2020 10:12

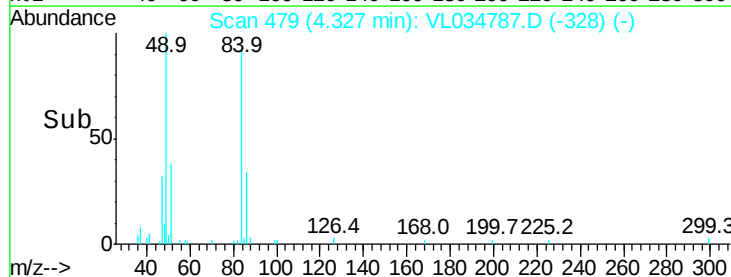
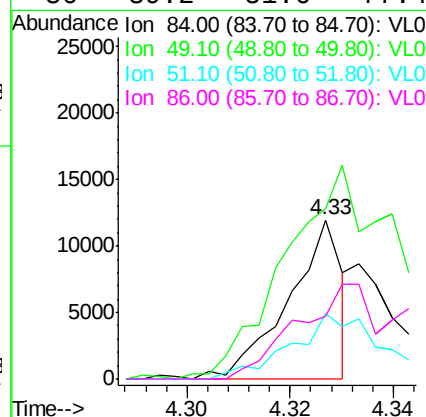
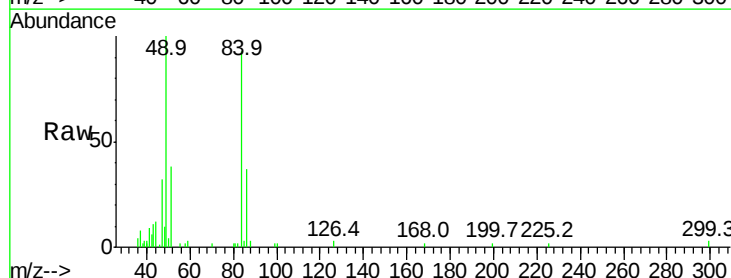
Instrument :
MSVOA_L
ClientSampleId :
E051-1100DL

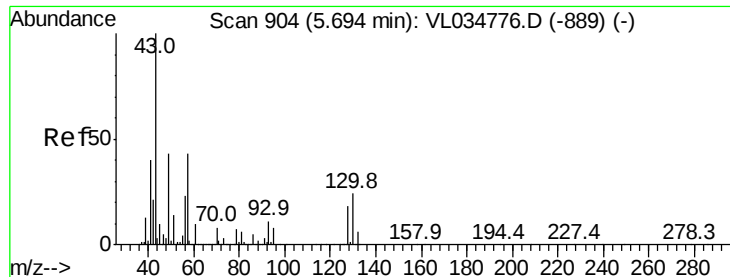
Tgt Ion: 43 Resp: 24295
Ion Ratio Lower Upper
43 100
58 44.1 21.0 31.6#



#20
Methylene Chloride
Concen: 0.204 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.01 min
Lab File: VL034787.D
Acq: 4 Mar 2020 10:12

Tgt Ion: 84 Resp: 8583
Ion Ratio Lower Upper
84 100
49 104.2 123.2 184.8#
51 41.1 37.4 56.2
86 39.2 51.6 77.4#

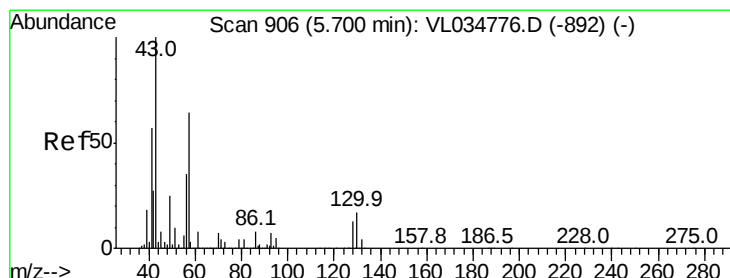
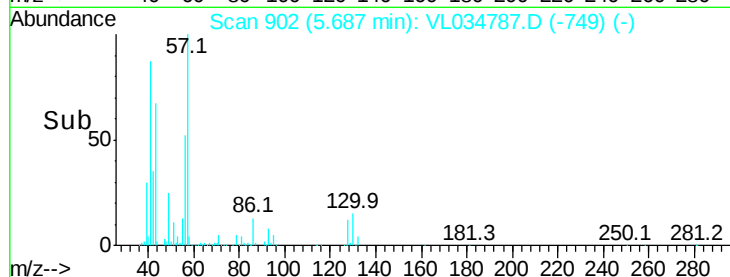
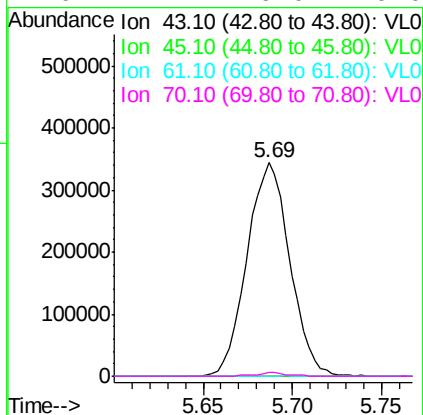
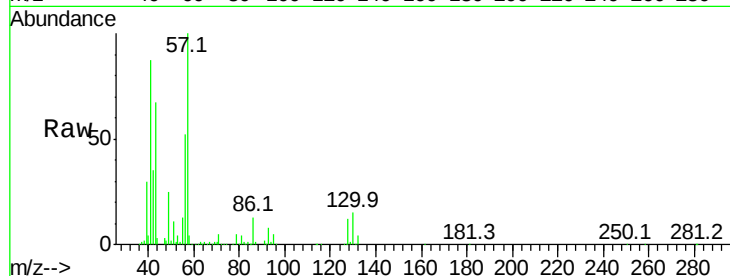




#25
Ethyl Acetate
Concen: 2.832 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL034787.D
Acq: 4 Mar 2020 10:12

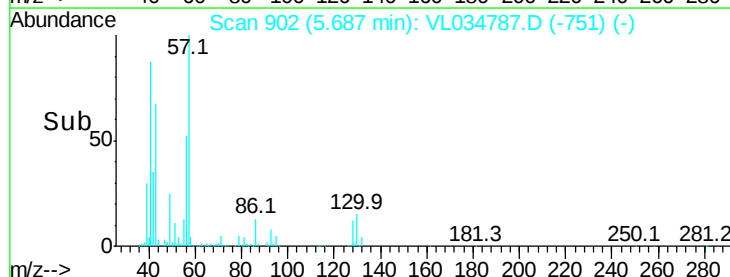
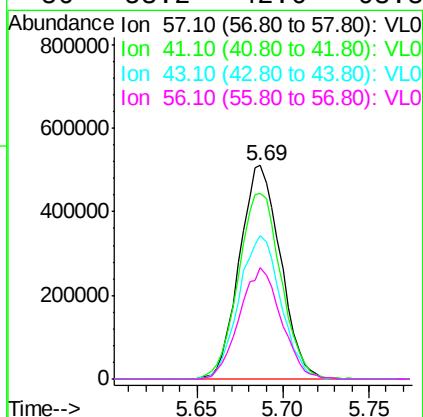
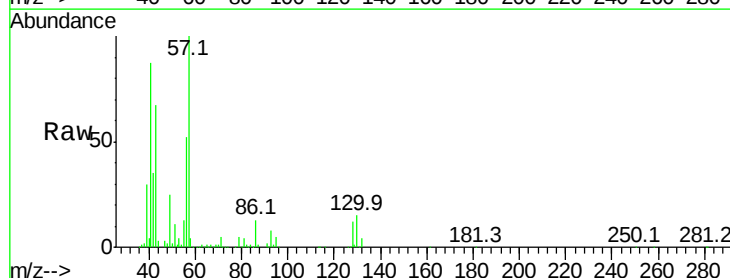
Instrument :
MSVOA_L
ClientSampleId :
E051-1100DL

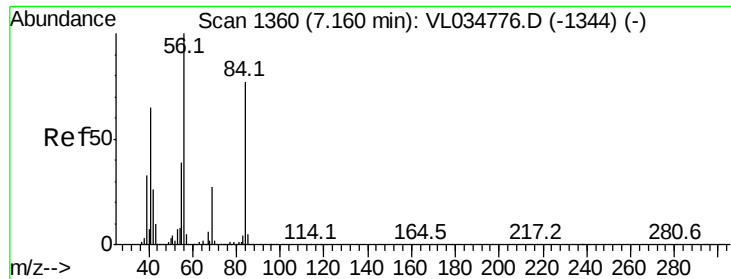
Tgt Ion:	43	Resp:	578064
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.2	12.4#
61	0.2	7.5	11.3#
70	1.4	6.0	9.0#



#26
Hexane
Concen: 9.465 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL034787.D
Acq: 4 Mar 2020 10:12

Tgt Ion:	57	Resp:	844153
Ion	Ratio	Lower	Upper
57	100		
41	90.8	72.0	108.0
43	68.7	179.1	268.7#
56	53.2	42.6	63.8

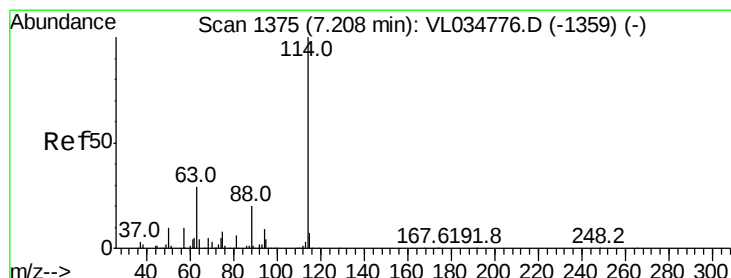
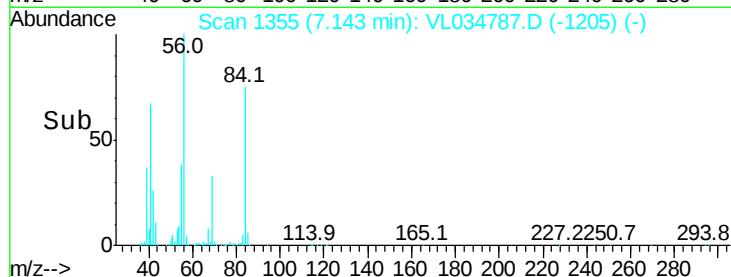
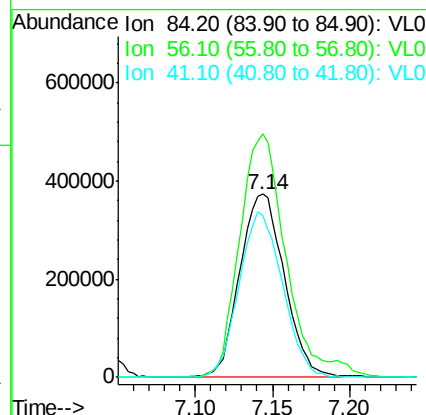
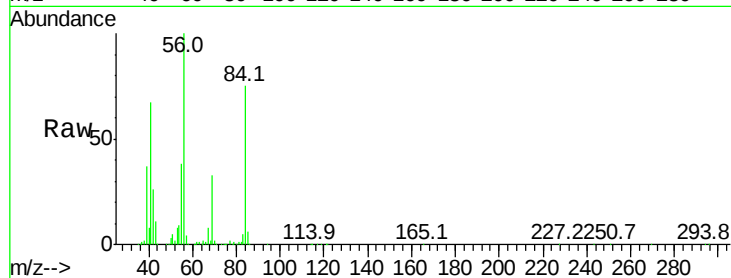




#30
Cyclohexane
Concen: 10.962 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.02 min
Lab File: VL034787.D
Acq: 4 Mar 2020 10:12

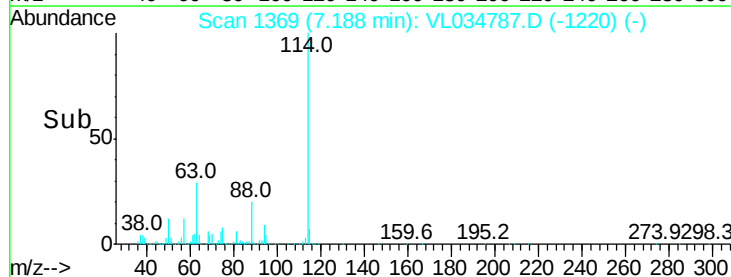
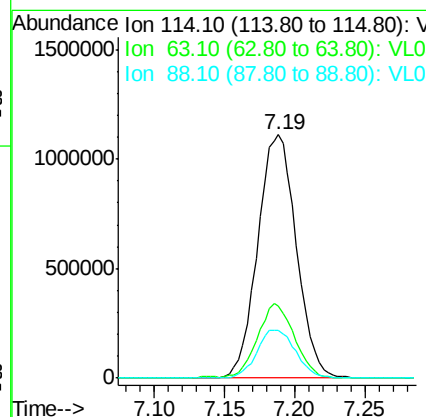
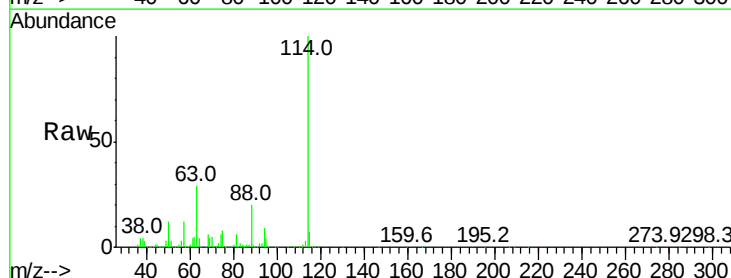
Instrument :
MSVOA_L
ClientSampleId :
E051-1100DL

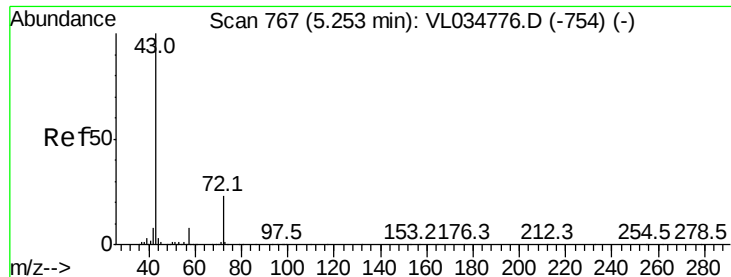
Tgt Ion: 84 Resp: 747980
Ion Ratio Lower Upper
84 100
56 138.9 113.2 169.8
41 88.3 70.2 105.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.02 min
Lab File: VL034787.D
Acq: 4 Mar 2020 10:12

Tgt Ion: 114 Resp: 2120903
Ion Ratio Lower Upper
114 100
63 29.8 23.6 35.4
88 19.8 15.8 23.8

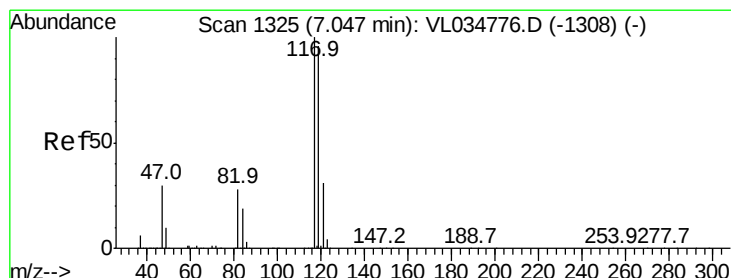
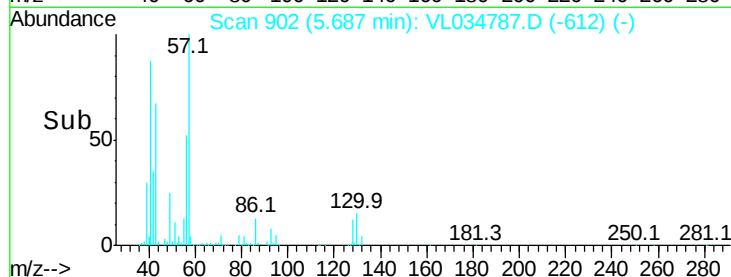
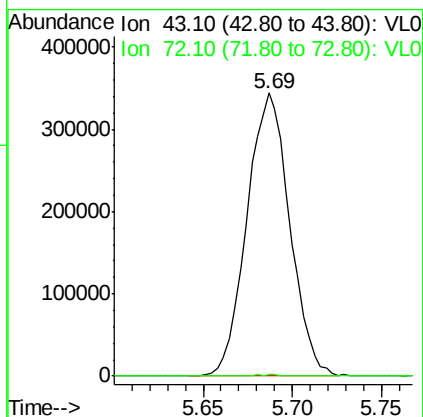
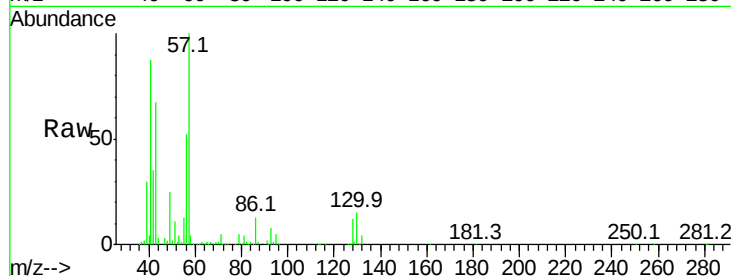




#34
 2-Butanone
 Concen: 4.189 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.43 min
 Lab File: VL034787.D
 Acq: 4 Mar 2020 10:12

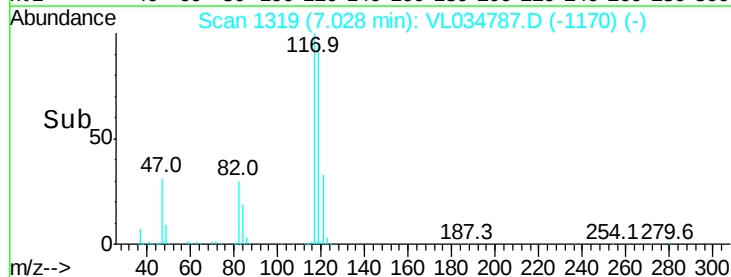
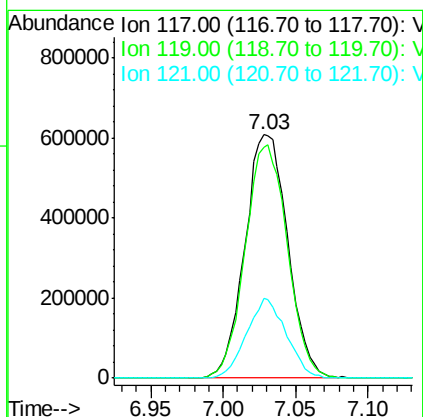
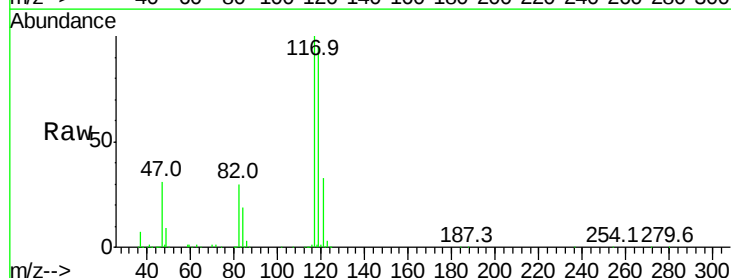
Instrument :
 MSVOA_L
 ClientSampleId :
 E051-1100DL

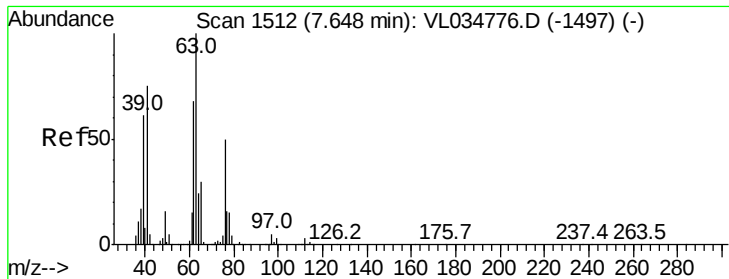
Tgt Ion: 43 Resp: 578064
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.5 26.3#



#35
 Carbon Tetrachloride
 Concen: 7.807 ppbv
 RT: 7.03 min Scan# 1319
 Delta R.T. -0.02 min
 Lab File: VL034787.D
 Acq: 4 Mar 2020 10:12

Tgt Ion: 117 Resp: 1249330
 Ion Ratio Lower Upper
 117 100
 119 95.0 76.8 115.2
 121 32.5 24.6 37.0





#39

1,2-Dichloropropane

Concen: 8.348 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.46 min

Lab File: VL034787.D

Acq: 4 Mar 2020 10:12

Instrument :

MSVOA_L

ClientSampleId :

E051-1100DL

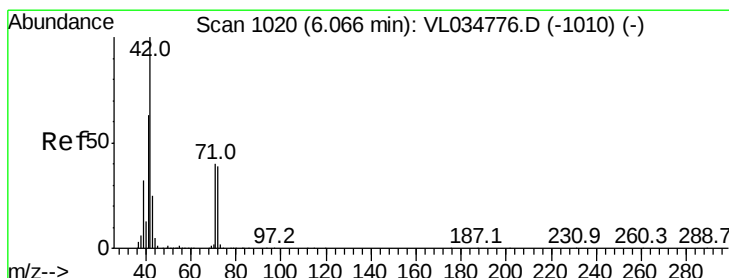
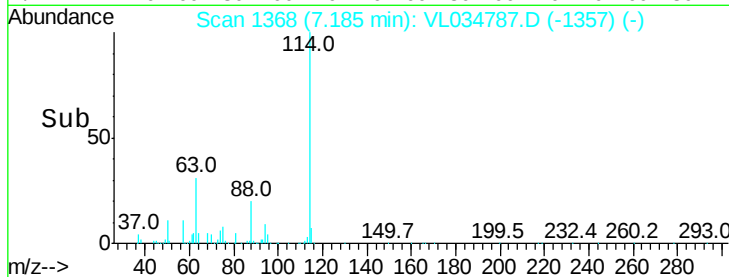
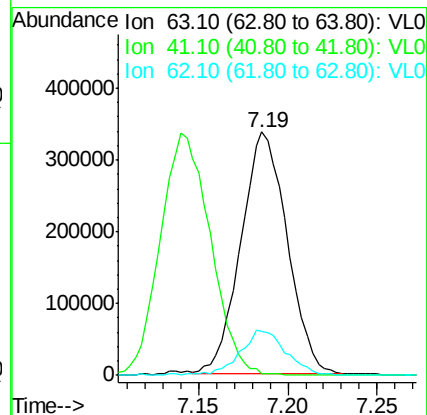
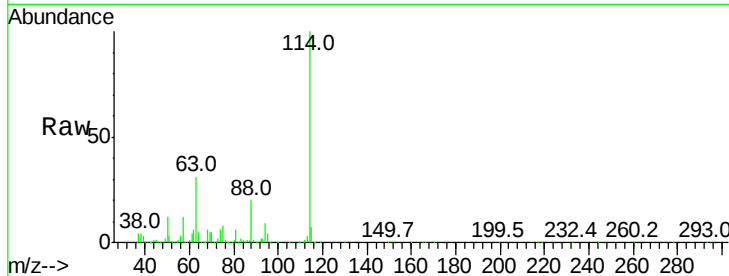
Tgt Ion: 63 Resp: 610547

Ion Ratio Lower Upper

63 100

41 0.7 60.3 90.5#

62 17.3 54.5 81.7#



#41

Tetrahydrofuran

Concen: 4.510 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.38 min

Lab File: VL034787.D

Acq: 4 Mar 2020 10:12

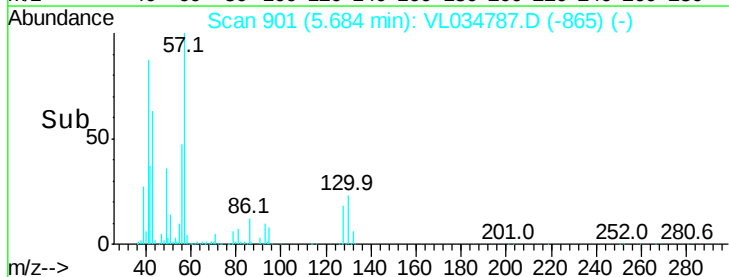
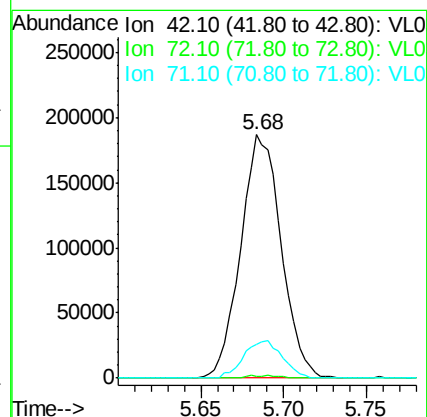
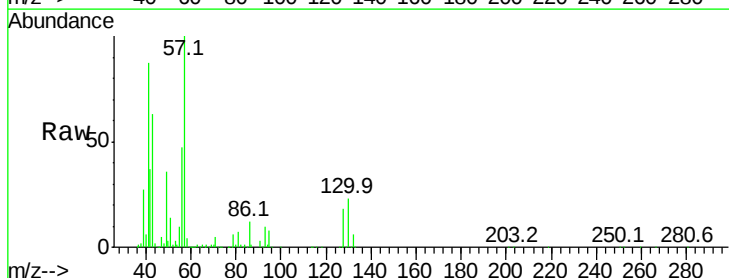
Tgt Ion: 42 Resp: 317514

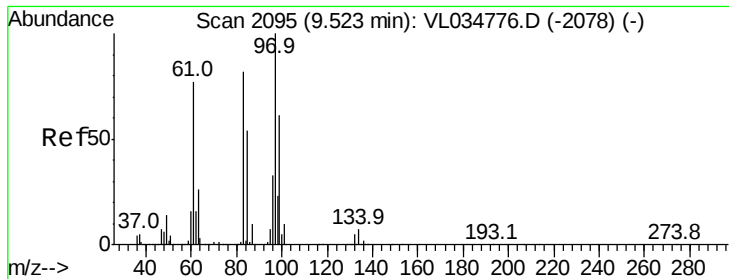
Ion Ratio Lower Upper

42 100

72 0.9 32.0 48.0#

71 14.7 31.3 46.9#

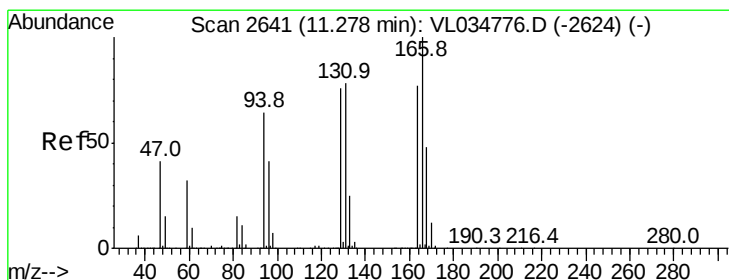
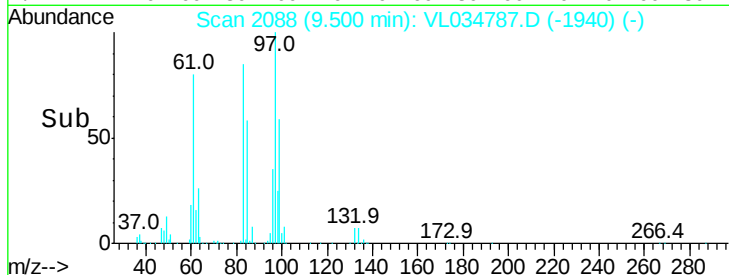
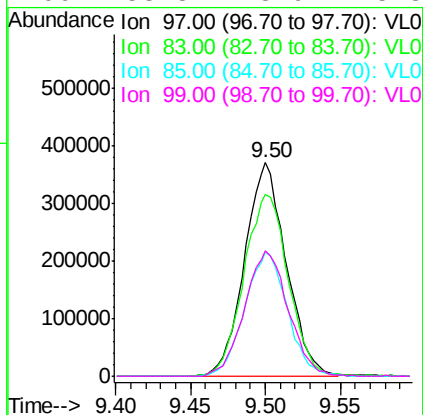
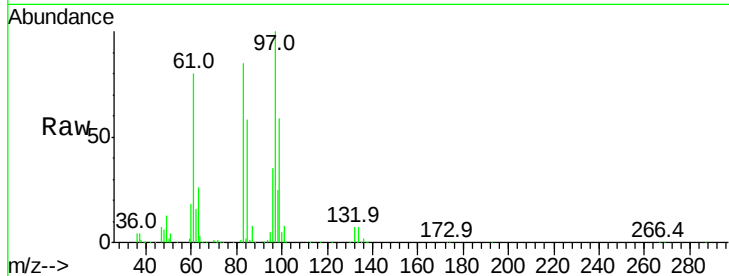




#47
 1,1,2-Trichloroethane
 Concen: 9.276 ppbv
 RT: 9.50 min Scan# 2088
 Delta R.T. -0.02 min
 Lab File: VL034787.D
 Acq: 4 Mar 2020 10:12

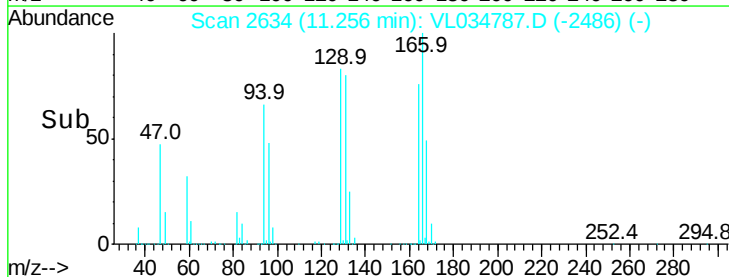
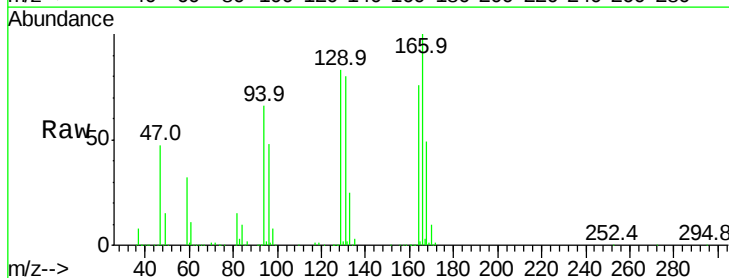
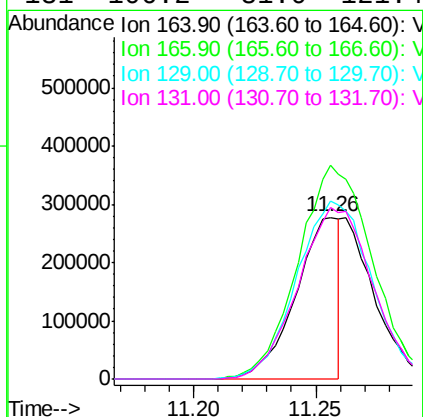
Instrument :
 MSVOA_L
 ClientSampleId :
 E051-1100DL

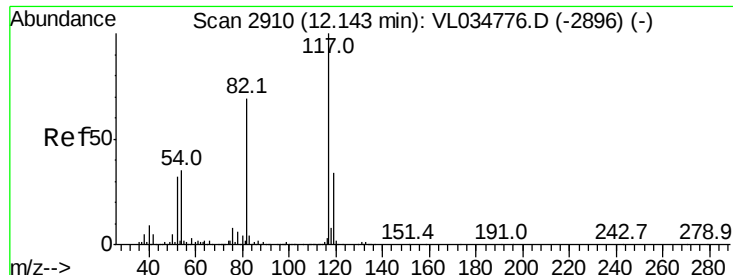
Tgt Ion:	97	Resp:	716233
Ion	Ratio	Lower	Upper
97	100		
83	85.2	65.2	97.8
85	58.0	43.6	65.4
99	58.8	48.9	73.3



#52
 Tetrachloroethene
 Concen: 5.172 ppbv
 RT: 11.26 min Scan# 2634
 Delta R.T. -0.02 min
 Lab File: VL034787.D
 Acq: 4 Mar 2020 10:12

Tgt Ion:	164	Resp:	346288
Ion	Ratio	Lower	Upper
164	100		
166	132.0	103.3	154.9
129	110.2	79.0	118.4
131	106.2	81.0	121.4

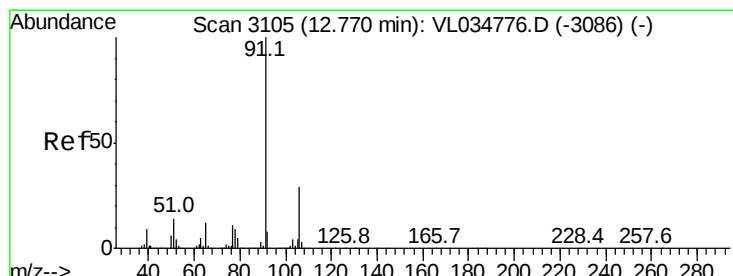
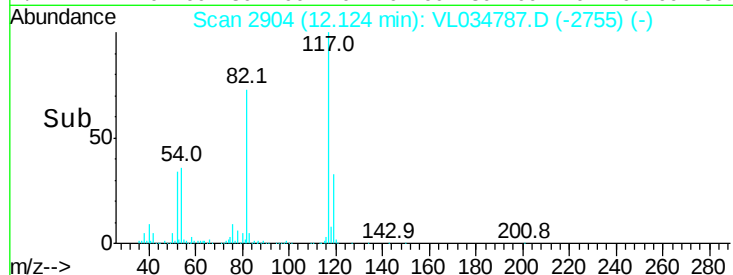
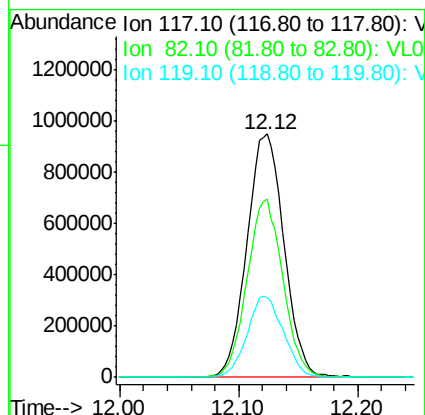
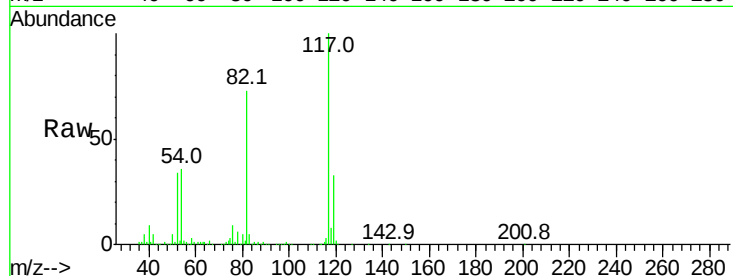




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL034787.D
Acq: 4 Mar 2020 10:12

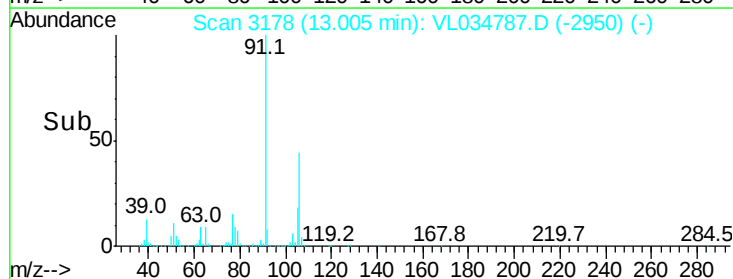
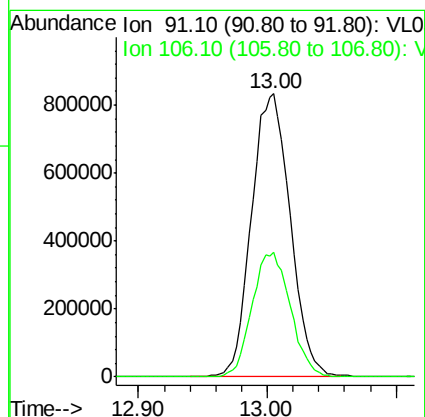
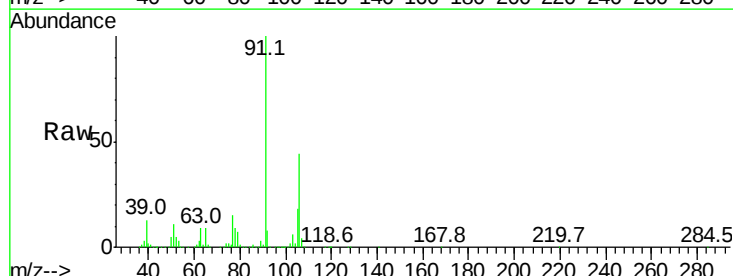
Instrument :
MSVOA_L
ClientSampleId :
E051-1100DL

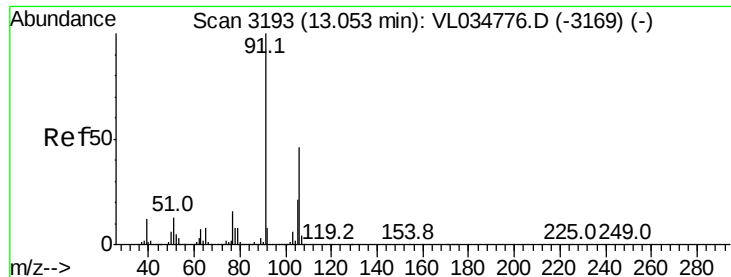
Tgt Ion:117 Resp: 2044086
Ion Ratio Lower Upper
117 100
82 71.0 53.9 80.9
119 32.9 25.0 37.4



#58
Ethyl Benzene
Concen: 6.909 ppbv
RT: 13.00 min Scan# 3178
Delta R.T. 0.23 min
Lab File: VL034787.D
Acq: 4 Mar 2020 10:12

Tgt Ion: 91 Resp: 1740433
Ion Ratio Lower Upper
91 100
106 44.0 22.8 34.2#





#59

m/p-Xylene

Concen: 7.982 ppbv

RT: 13.00 min Scan# 3178

Delta R.T. -0.05 min

Lab File: VL034787.D

Acq: 4 Mar 2020 10:12

Instrument :

MSVOA_L

ClientSampleId :

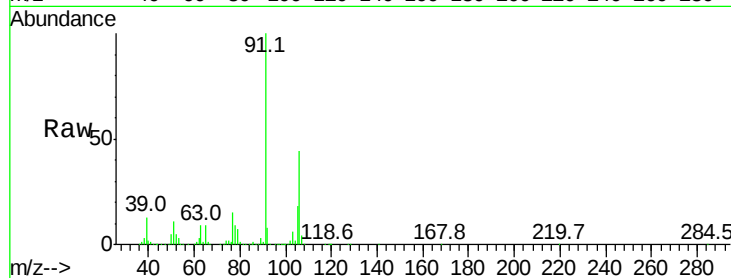
E051-1100DL

Tgt Ion: 91 Resp: 1740433

Ion Ratio Lower Upper

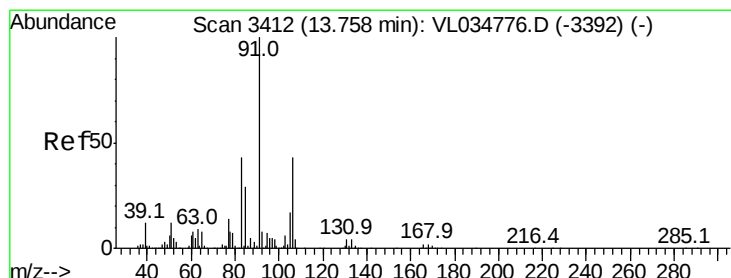
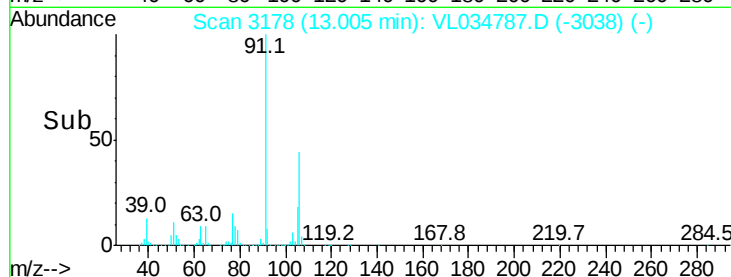
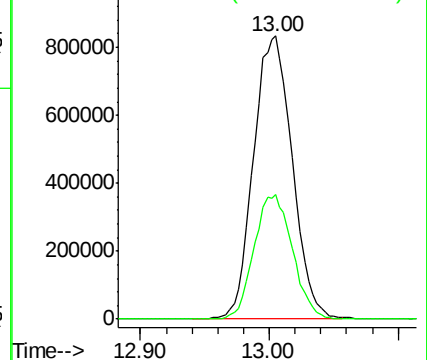
91 100

106 43.6 35.8 53.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 6.745 ppbv

RT: 13.73 min Scan# 3403

Delta R.T. -0.03 min

Lab File: VL034787.D

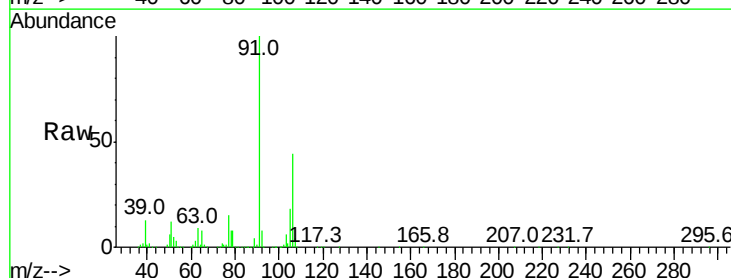
Acq: 4 Mar 2020 10:12

Tgt Ion: 91 Resp: 1488020

Ion Ratio Lower Upper

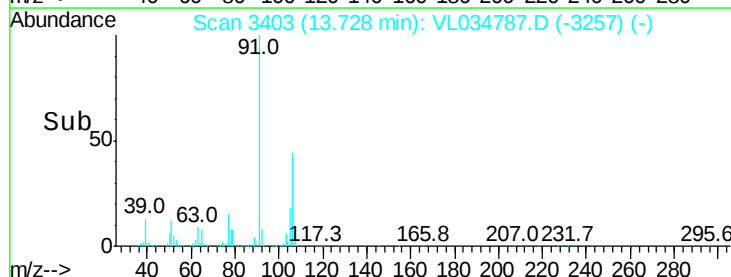
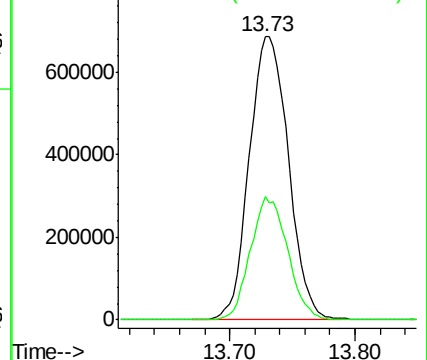
91 100

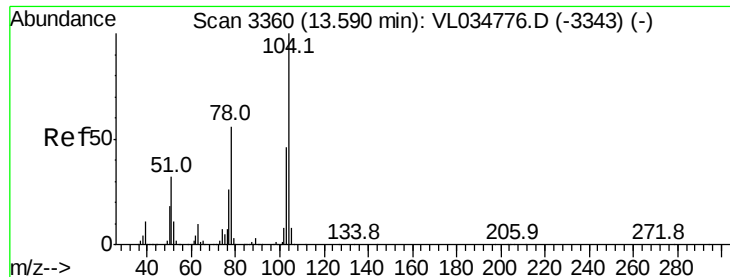
106 41.4 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

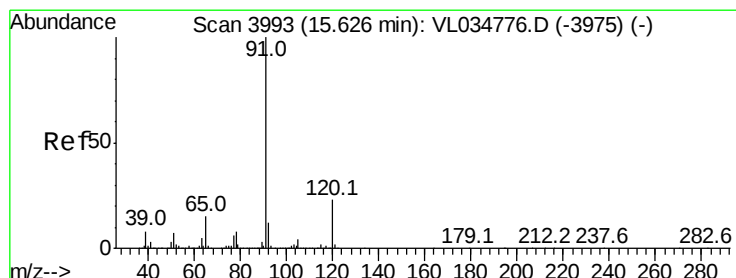
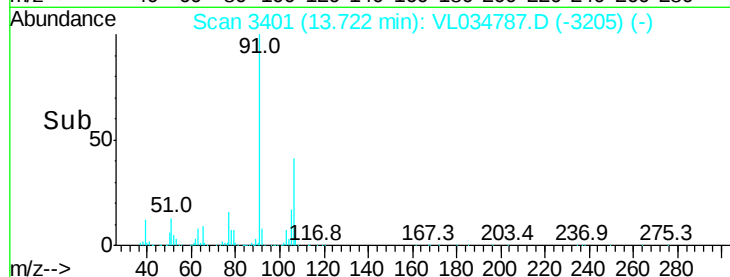
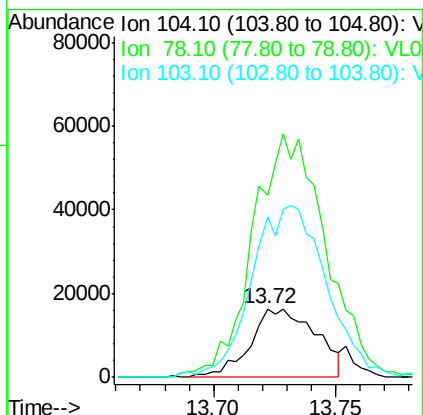
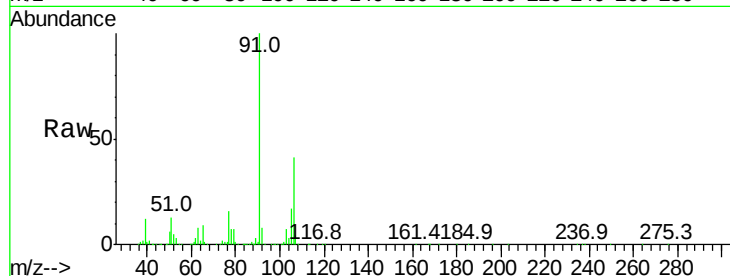




#61
Styrene
Concen: 0.222 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.13 min
Lab File: VL034787.D
Acq: 4 Mar 2020 10:12

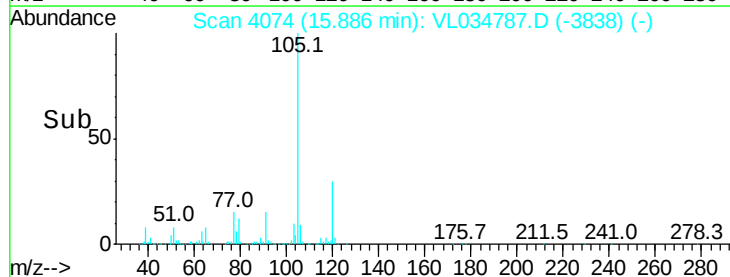
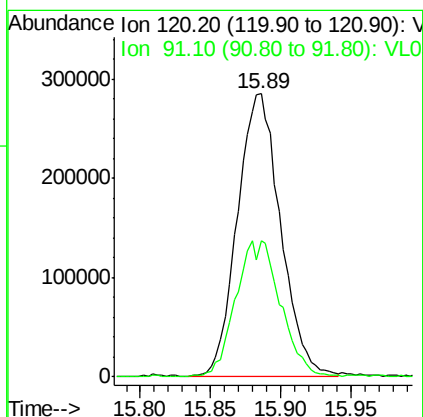
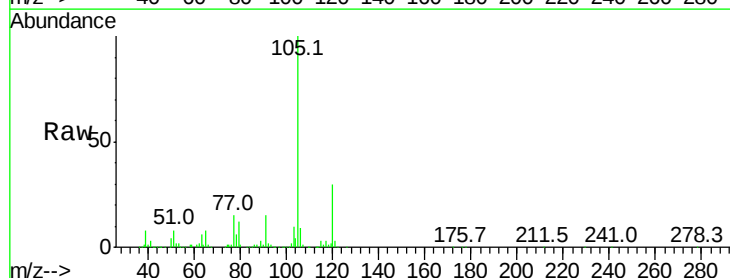
Instrument :
MSVOA_L
ClientSampleId :
E051-1100DL

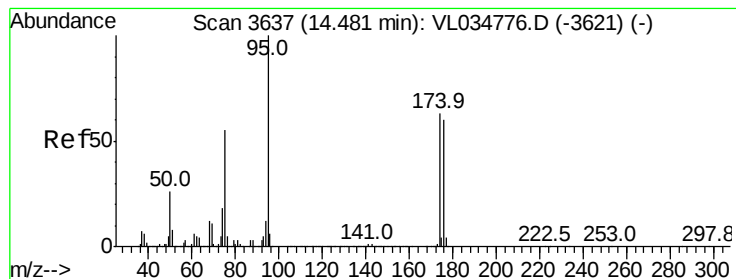
Tgt Ion:104 Resp: 30430
Ion Ratio Lower Upper
104 100
78 397.8 44.7 67.1#
103 287.2 38.2 57.2#



#64
n-propylbenzene
Concen: 7.545 ppbv
RT: 15.89 min Scan# 4074
Delta R.T. 0.26 min
Lab File: VL034787.D
Acq: 4 Mar 2020 10:12

Tgt Ion:120 Resp: 614328
Ion Ratio Lower Upper
120 100
91 50.7 379.4 569.2#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.397 ppbv

RT: 14.46 min Scan# 3631

Delta R.T. -0.02 min

Lab File: VL034787.D

Acq: 4 Mar 2020 10:12

Instrument :

MSVOA_L

ClientSampleId :

E051-1100DL

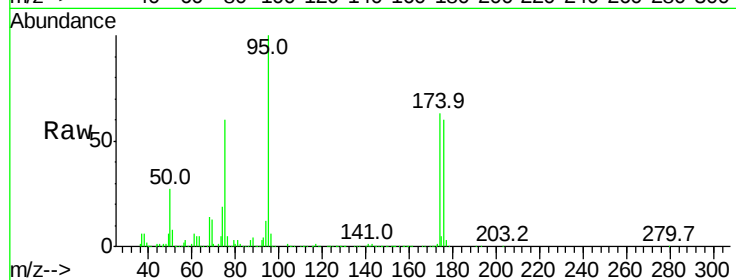
Tgt Ion: 95 Resp: 1772047

Ion Ratio Lower Upper

95 100

174 62.1 50.6 76.0

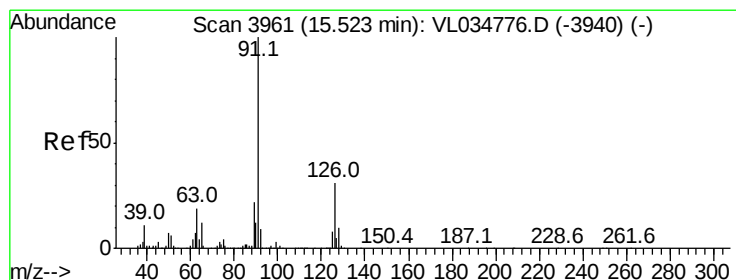
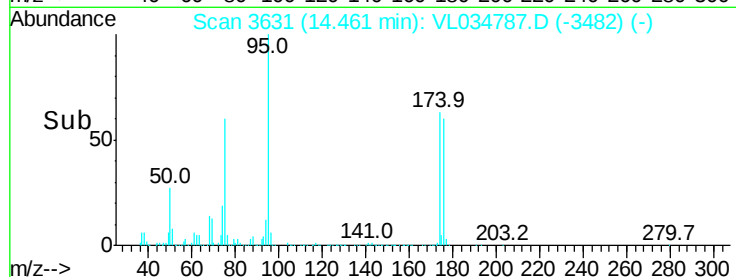
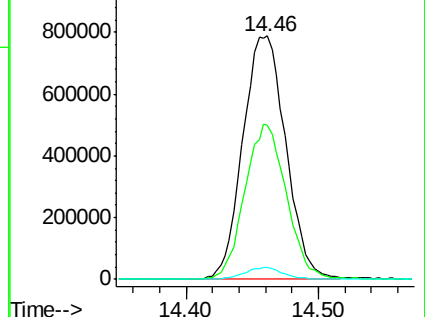
175 4.6 3.8 5.6



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



#71

2-Chlorotoluene

Concen: 0.620 ppbv

RT: 15.88 min Scan# 4072

Delta R.T. 0.36 min

Lab File: VL034787.D

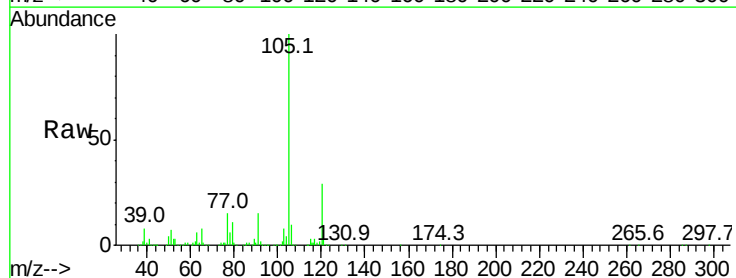
Acq: 4 Mar 2020 10:12

Tgt Ion: 91 Resp: 152147

Ion Ratio Lower Upper

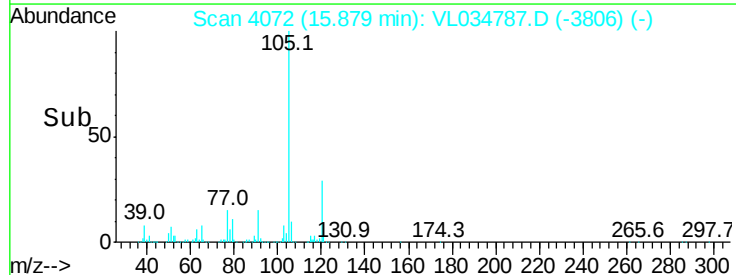
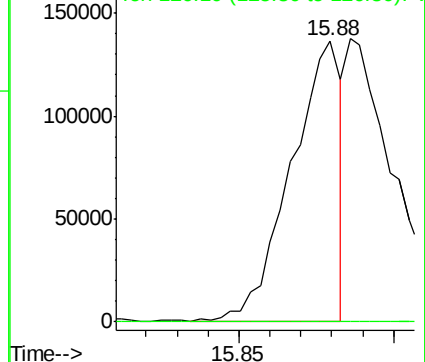
91 100

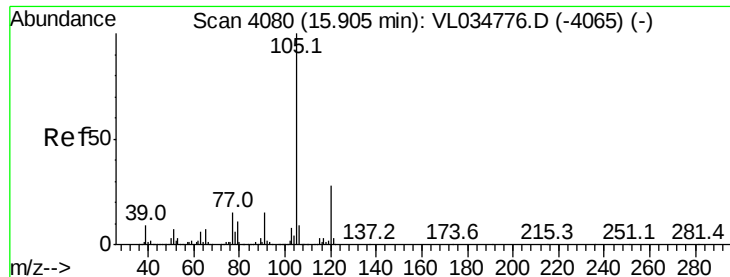
126 0.0 11.7 46.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 8.768 ppbv

RT: 15.88 min Scan# 4073

Delta R.T. -0.02 min

Lab File: VL034787.D

Acq: 4 Mar 2020 10:12

Instrument :

MSVOA_L

ClientSampleId :

E051-1100DL

Tgt Ion:105 Resp: 2153821

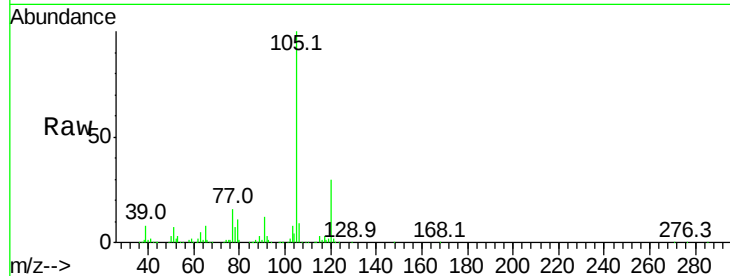
Ion Ratio Lower Upper

105 100

120 28.7 23.0 34.6

91 14.5 11.1 16.7

77 15.7 12.2 18.4

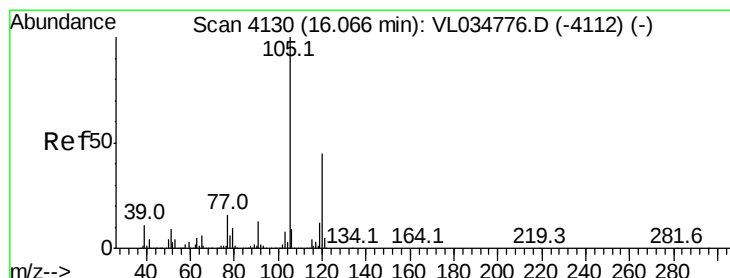
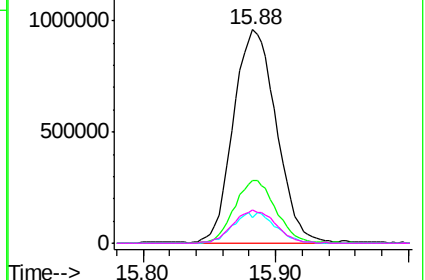
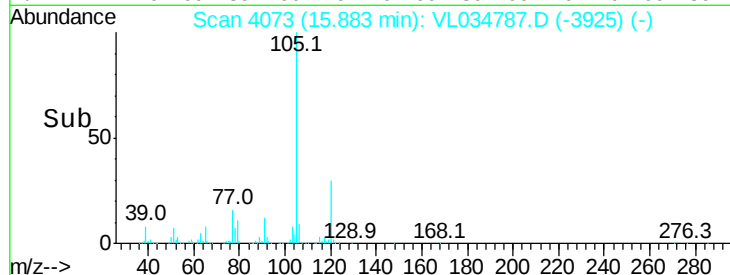


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 9.141 ppbv

RT: 15.88 min Scan# 4073

Delta R.T. -0.18 min

Lab File: VL034787.D

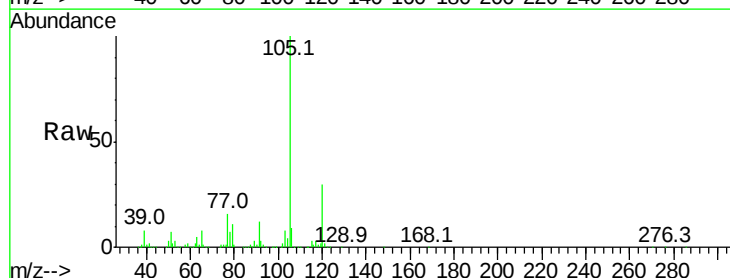
Acq: 4 Mar 2020 10:12

Tgt Ion:105 Resp: 2153821

Ion Ratio Lower Upper

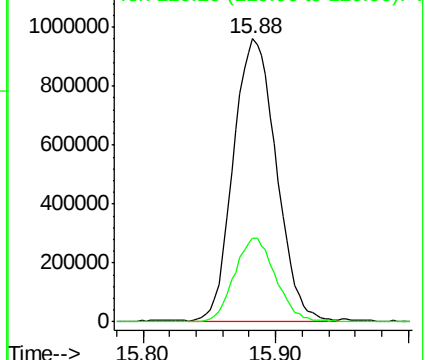
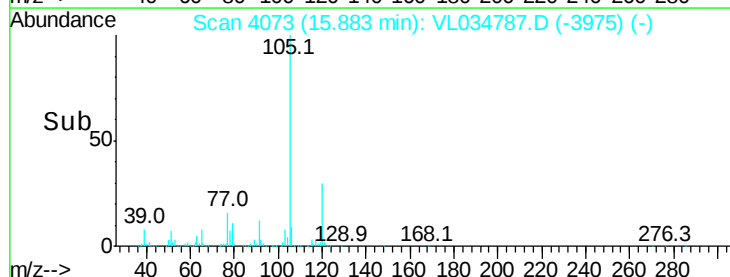
105 100

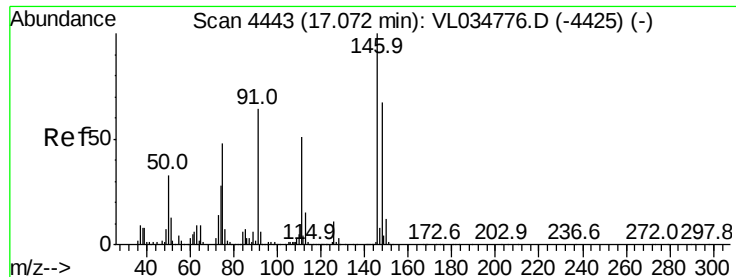
120 29.6 35.6 53.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#75

1,3-Dichlorobenzene

Concen: 6.149 ppbv

RT: 17.05 min Scan# 4435

Delta R.T. -0.03 min

Lab File: VL034787.D

Acq: 4 Mar 2020 10:12

Instrument :

MSVOA_L

ClientSampleId :

E051-1100DL

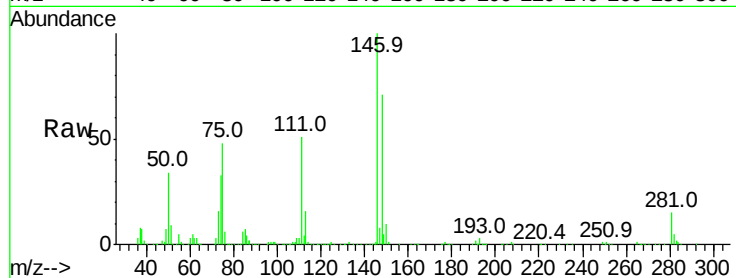
Tgt Ion:146 Resp: 932367

Ion Ratio Lower Upper

146 100

111 49.2 24.7 74.1

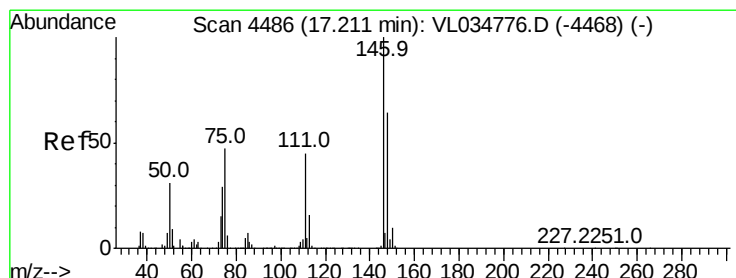
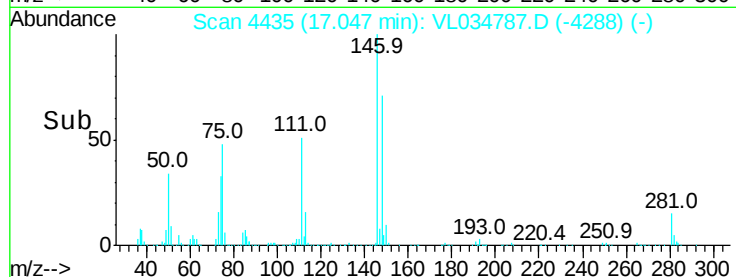
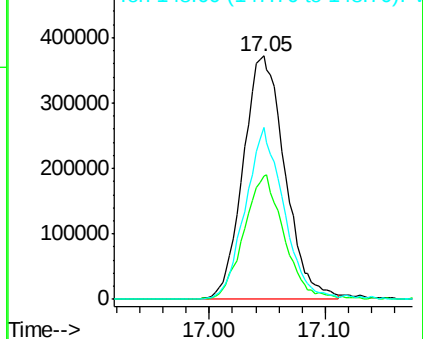
148 65.8 31.8 95.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 6.426 ppbv

RT: 17.05 min Scan# 4435

Delta R.T. -0.16 min

Lab File: VL034787.D

Acq: 4 Mar 2020 10:12

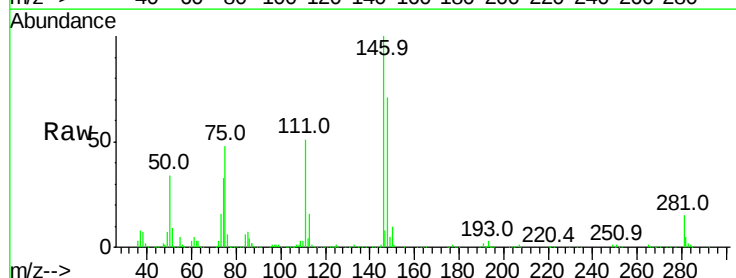
Tgt Ion:146 Resp: 932367

Ion Ratio Lower Upper

146 100

111 49.4 23.5 70.5

148 65.8 32.2 96.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

