

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120919\
 Data File : VL034483.D
 Acq On : 10 Dec 2019 3:26
 Operator : SY/AP
 Sample : K6181-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-2DL

Quant Time: Dec 10 07:14:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	963806	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1905959	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1913040	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1630801	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

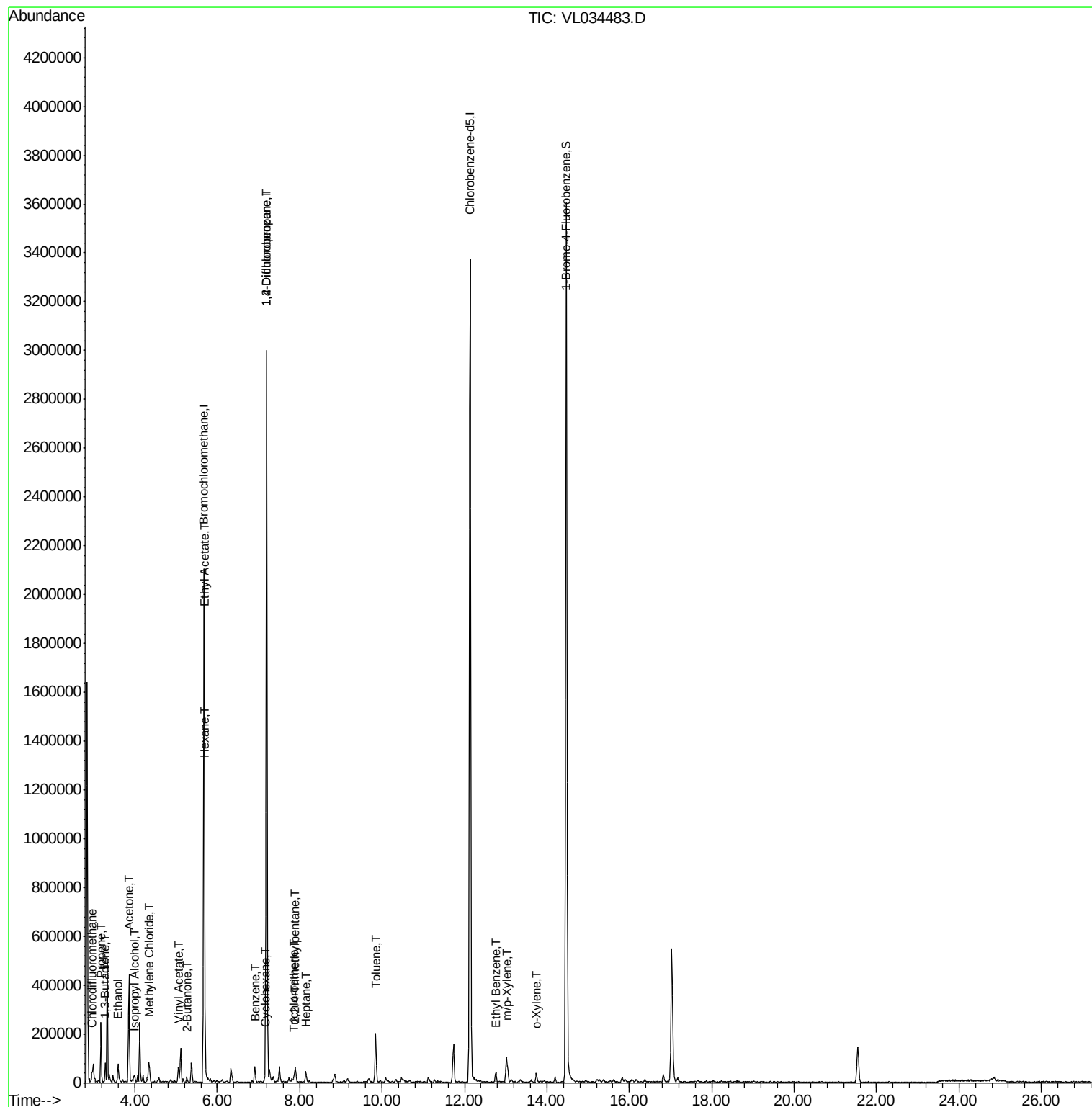
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.96	51	29312	0.244	ppbv	93
9) Propene	3.18	41	64236	1.203	ppbv	90
10) Heptane	8.15	43	7350	0.053	ppbv #	19
13) Ethanol	3.59	45	77580	5.217	ppbv	94
15) Acetone	3.85	43	229734	1.665	ppbv #	80
16) 1,3-Butadiene	3.29	39	9883	0.164	ppbv #	27
19) Isopropyl Alcohol	3.97	45	7446	0.084	ppbv #	60
20) Methylene Chloride	4.33	84	9477	0.194	ppbv	85
23) Vinyl Acetate	5.06	43	5901	0.033	ppbv #	1
25) Ethyl Acetate	5.69	43	17893	0.073	ppbv #	83
26) Hexane	5.70	57	36950	0.349	ppbv #	41
30) Cyclohexane	7.15	84	3135	0.039	ppbv #	1
34) 2-Butanone	5.26	43	18074	0.115	ppbv #	91
36) Benzene	6.91	78	21987	0.115	ppbv #	91
38) Trichloroethene	7.85	130	3147	0.040	ppbv #	57
39) 1,2-Dichloropropane	7.19	63	573762	7.817	ppbv #	23
44) 2,2,4-Trimethylpentane	7.90	57	17944	0.052	ppbv #	41
53) Toluene	9.85	91	137623	0.636	ppbv	97
58) Ethyl Benzene	12.75	91	10668	0.036	ppbv	96
59) m/p-Xylene	13.04	91	25380	0.099	ppbv #	33
60) o-Xylene	13.74	91	13523	0.053	ppbv #	37

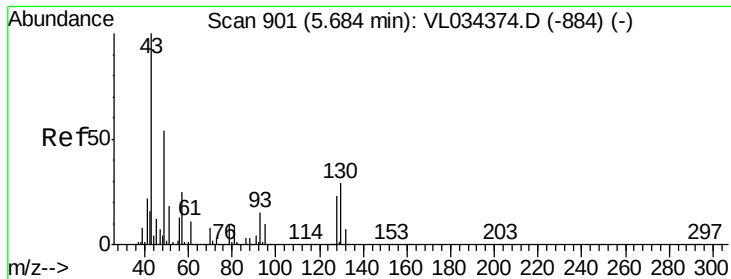
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
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QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034483.D

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Instrument :

MSVOA_L

ClientSampleId :

1A-2DL

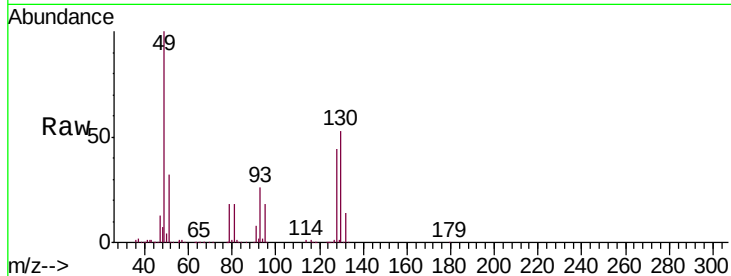
Tgt Ion: 49 Resp: 963806

Ion Ratio Lower Upper

49 100

128 43.6 21.8 65.3

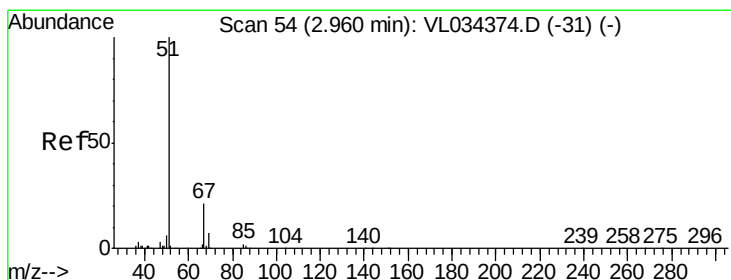
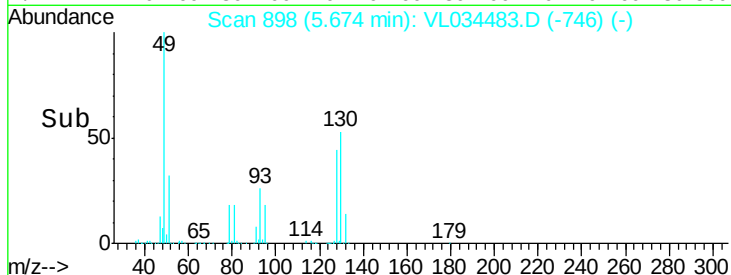
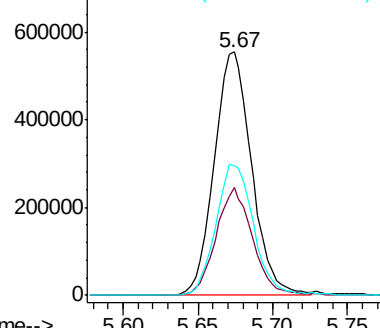
130 55.1 28.0 84.0



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



#3

Chlorodifluoromethane

Concen: 0.244 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.00 min

Lab File: VL034483.D

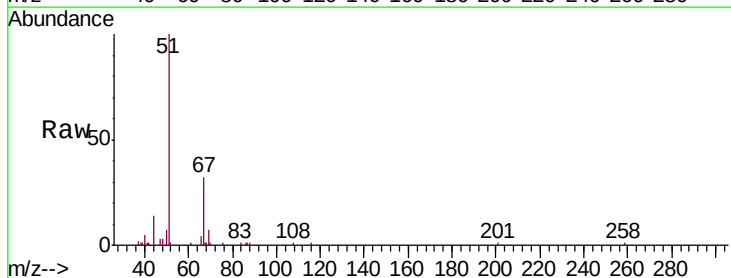
Acq: 10 Dec 2019 3:26

Tgt Ion: 51 Resp: 29312

Ion Ratio Lower Upper

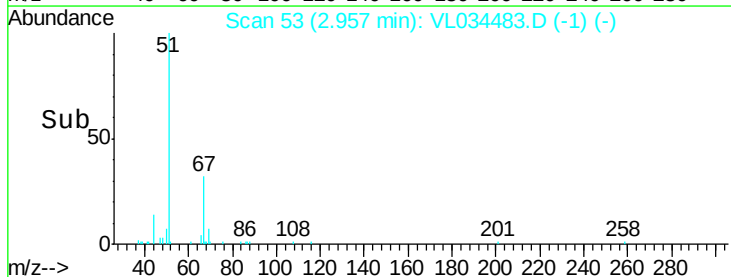
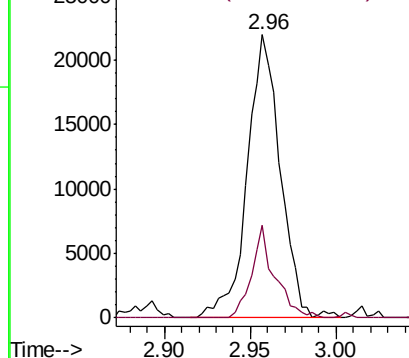
51 100

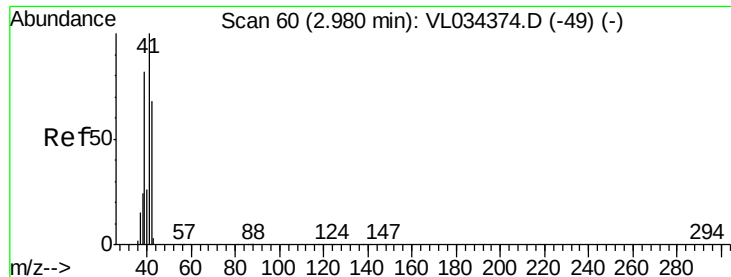
67 23.2 16.2 24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 1.203 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.20 min

Lab File: VL034483.D

Acq: 10 Dec 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

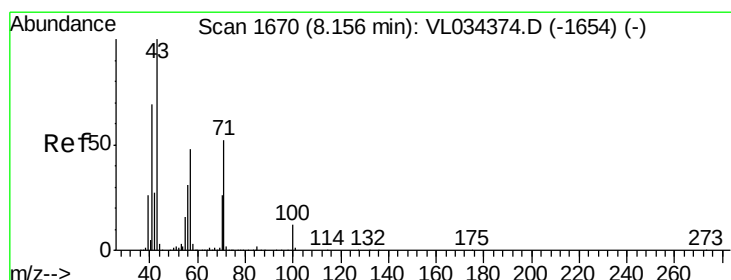
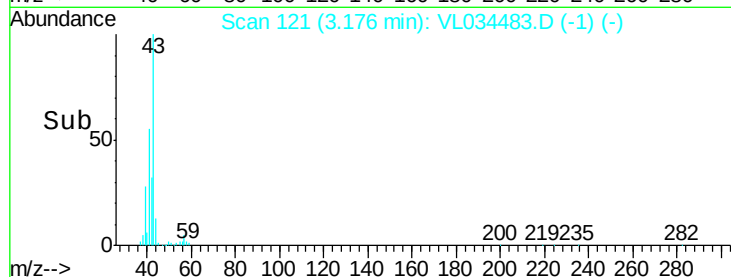
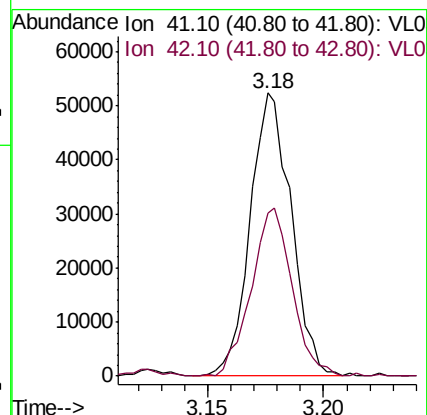
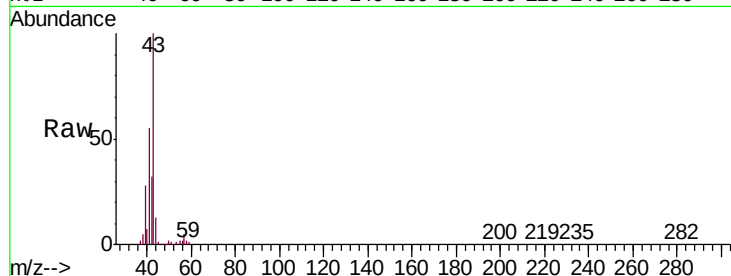
1A-2DL

Tgt Ion: 41 Resp: 64236

Ion Ratio Lower Upper

41 100

42 60.0 54.6 82.0



#10

Heptane

Concen: 0.053 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VL034483.D

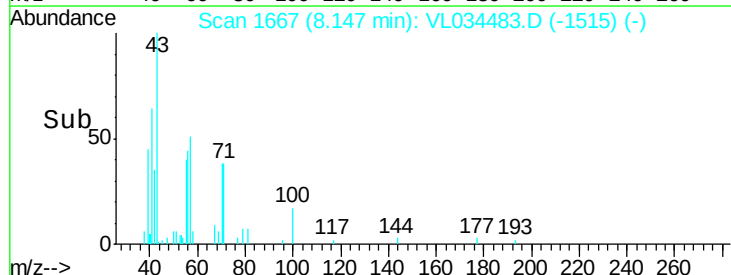
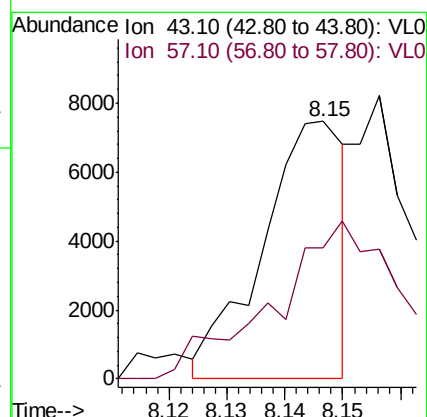
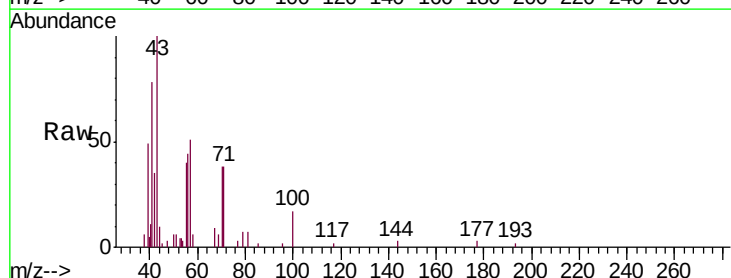
Acq: 10 Dec 2019 3:26

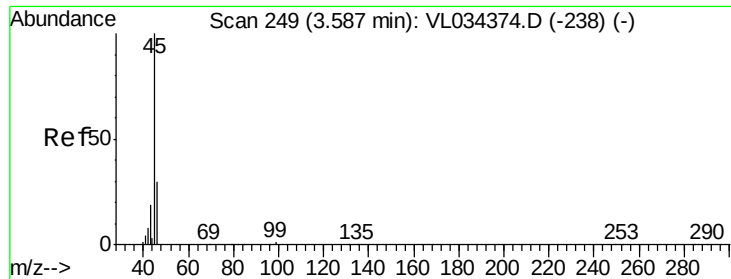
Tgt Ion: 43 Resp: 7350

Ion Ratio Lower Upper

43 100

57 106.1 40.2 60.2#

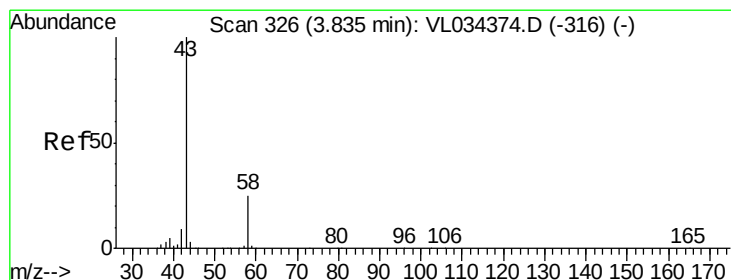
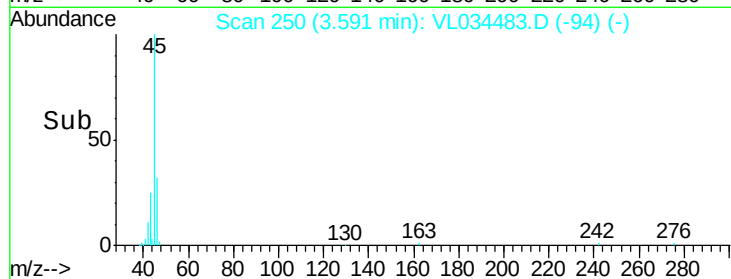
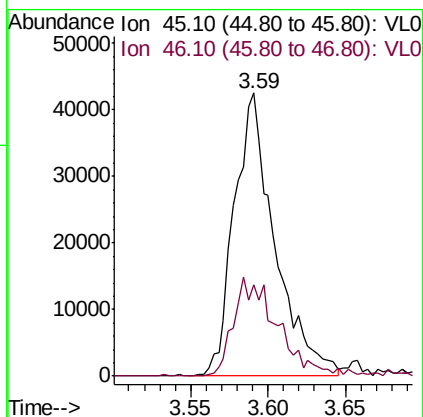
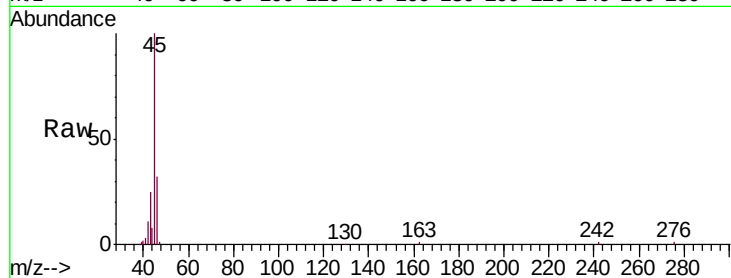




#13
Ethanol
Concen: 5.217 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.00 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

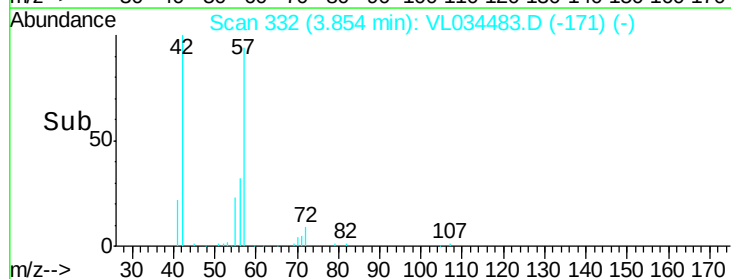
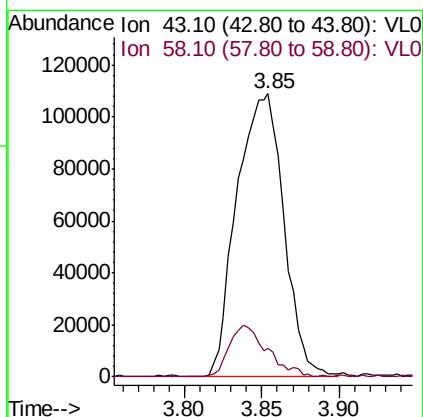
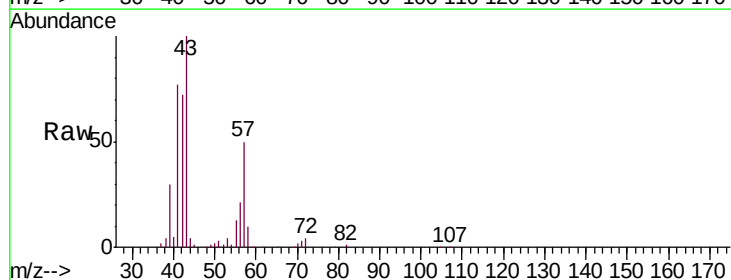
Instrument :
MSVOA_L
ClientSampleId :
1A-2DL

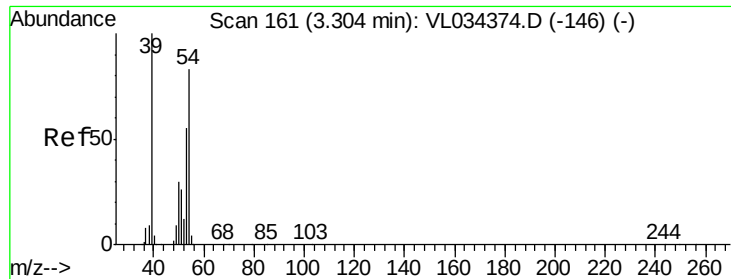
Tgt Ion: 45 Resp: 77580
Ion Ratio Lower Upper
45 100
46 38.0 13.8 55.4



#15
Acetone
Concen: 1.665 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 43 Resp: 229734
Ion Ratio Lower Upper
43 100
58 15.0 20.2 30.4#

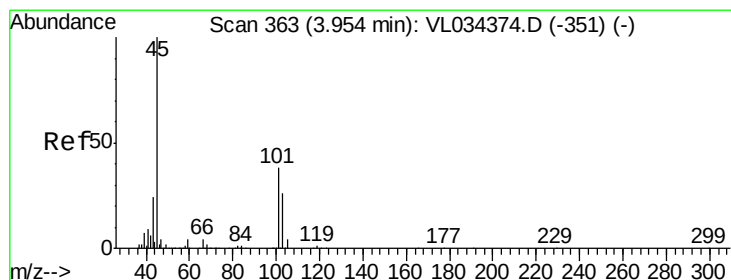
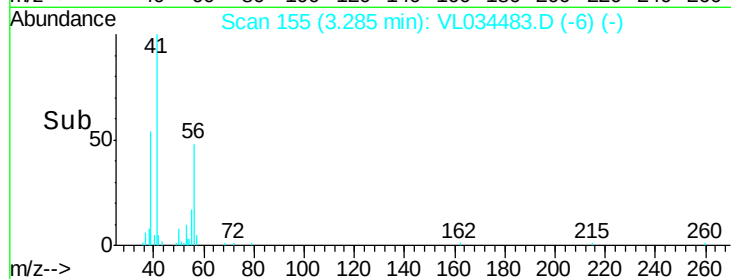
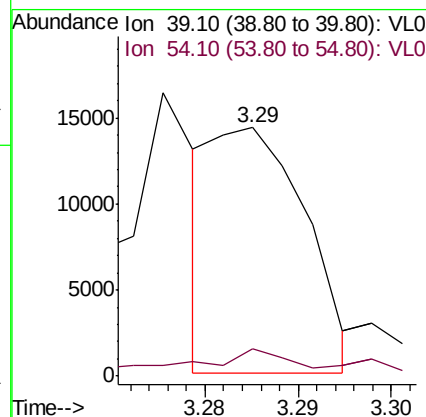
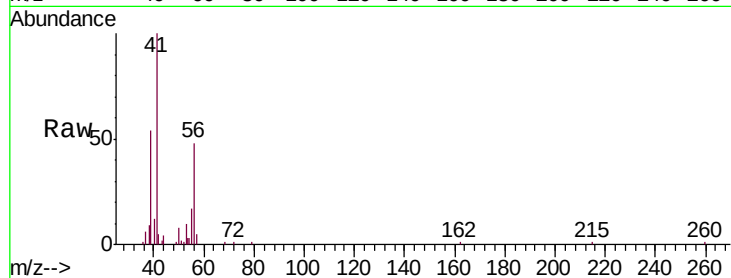




#16
 1,3-Butadiene
 Concen: 0.164 ppbv
 RT: 3.29 min Scan# 155
 Delta R.T. -0.02 min
 Lab File: VL034483.D
 Acq: 10 Dec 2019 3:26

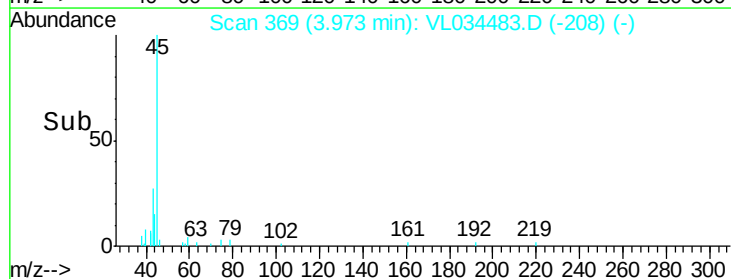
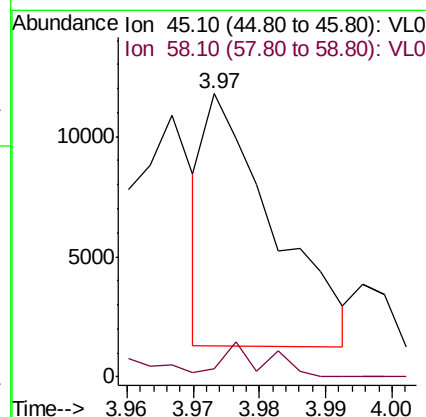
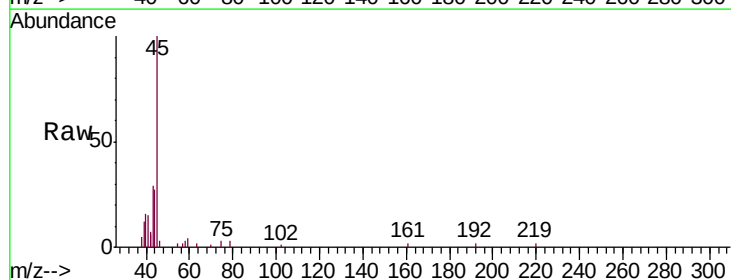
Instrument :
 MSVOA_L
 ClientSampleId :
 1A-2DL

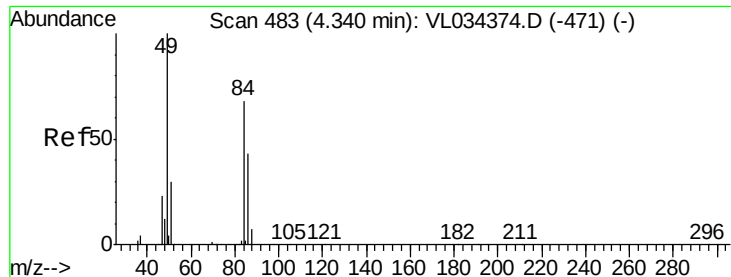
Tgt Ion: 39 Resp: 9883
 Ion Ratio Lower Upper
 39 100
 54 16.0 64.7 97.1#



#19
 Isopropyl Alcohol
 Concen: 0.084 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.02 min
 Lab File: VL034483.D
 Acq: 10 Dec 2019 3:26

Tgt Ion: 45 Resp: 7446
 Ion Ratio Lower Upper
 45 100
 58 16.7 1.3 1.9#

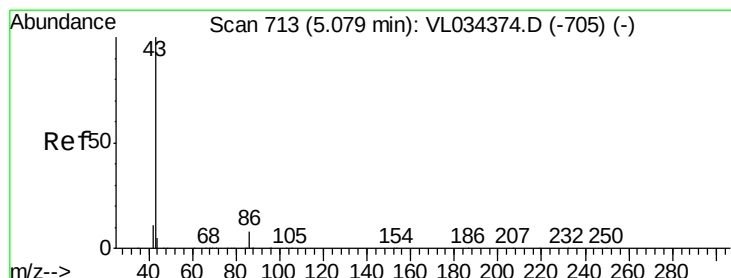
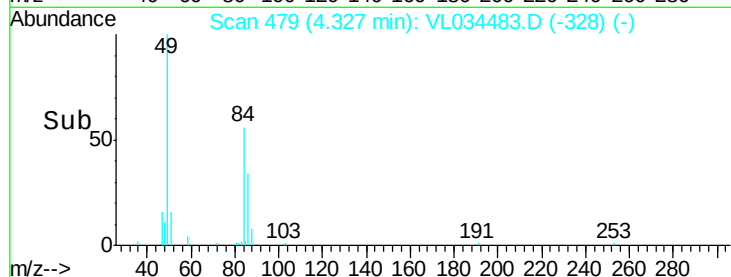
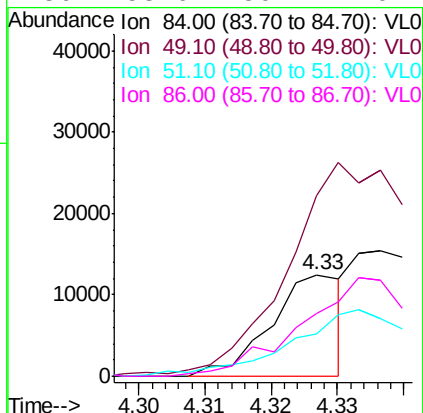
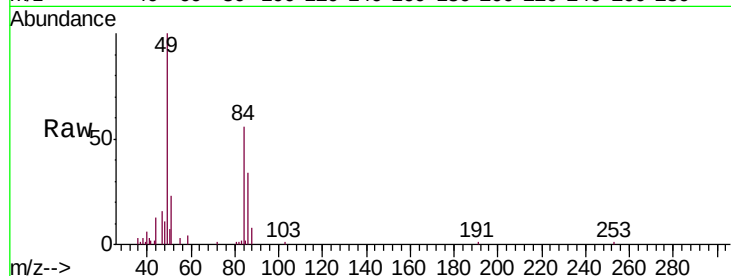




#20
Methylene Chloride
Concen: 0.194 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

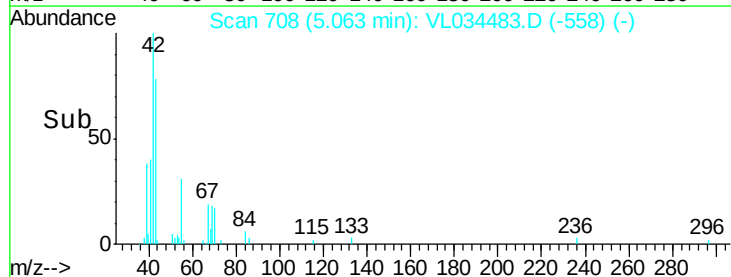
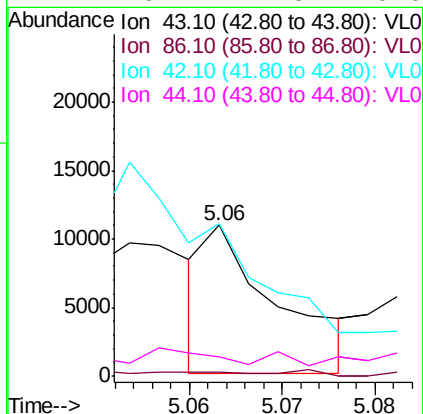
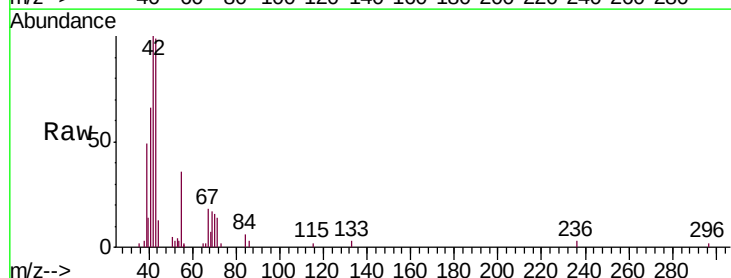
Instrument :
MSVOA_L
ClientSampled :
1A-2DL

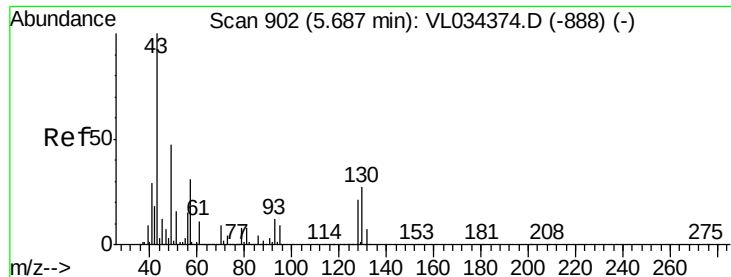
Tgt Ion:	84	Resp:	9477
Ion	Ratio	Lower	Upper
84	100		
49	171.7	116.8	175.2
51	37.1	35.6	53.4
86	58.6	50.7	76.1



#23
Vinyl Acetate
Concen: 0.033 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.02 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion:	43	Resp:	5901
Ion	Ratio	Lower	Upper
43	100		
86	4.4	5.8	8.6#
42	117.8	8.9	13.3#
44	0.1	4.0	6.0#





#25

Ethyl Acetate

Concen: 0.073 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL034483.D

Acq: 10 Dec 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

1A-2DL

Tgt Ion: 43 Resp: 17893

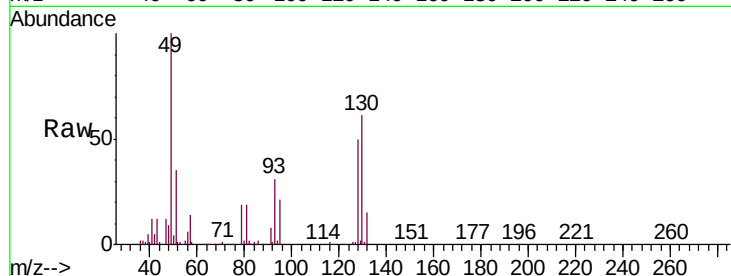
Ion Ratio Lower Upper

43 100

45 1.1 8.2 12.4#

61 3.6 7.5 11.3#

70 4.8 5.7 8.5#

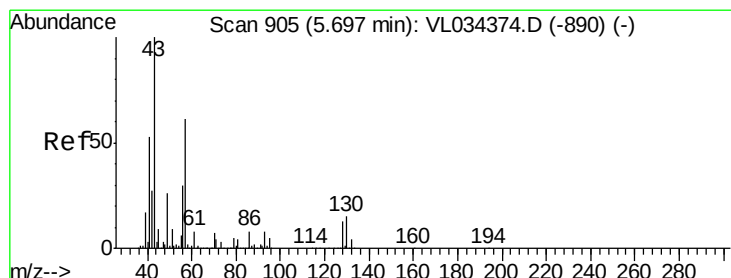
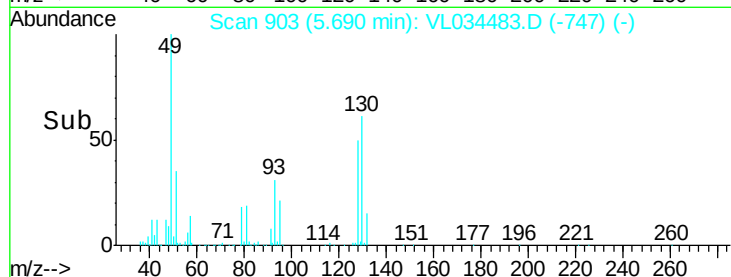
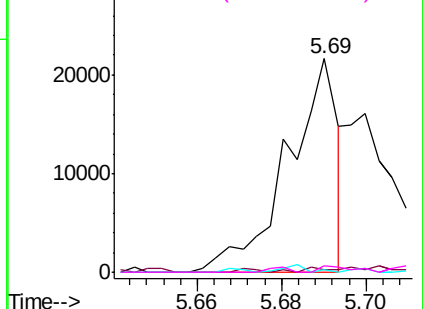


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.349 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL034483.D

Acq: 10 Dec 2019 3:26

Tgt Ion: 57 Resp: 36950

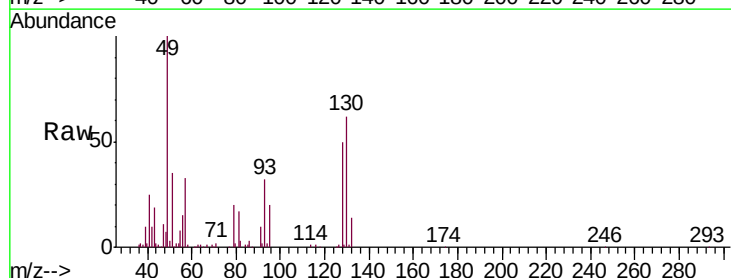
Ion Ratio Lower Upper

57 100

41 105.3 75.0 112.4

43 85.2 186.6 279.8#

56 58.3 41.5 62.3

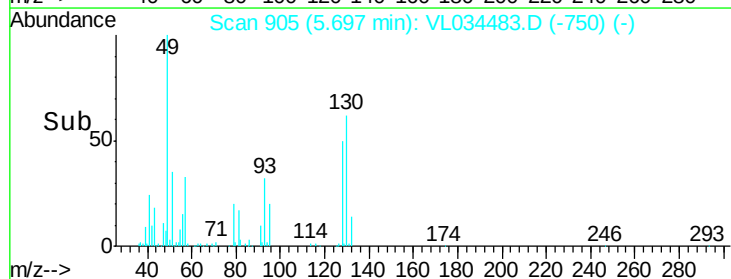
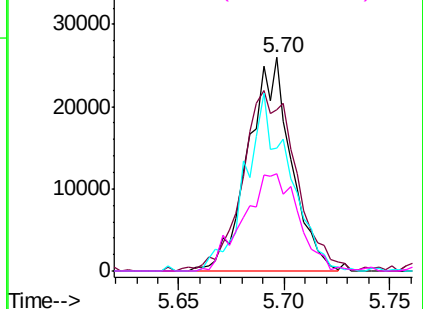


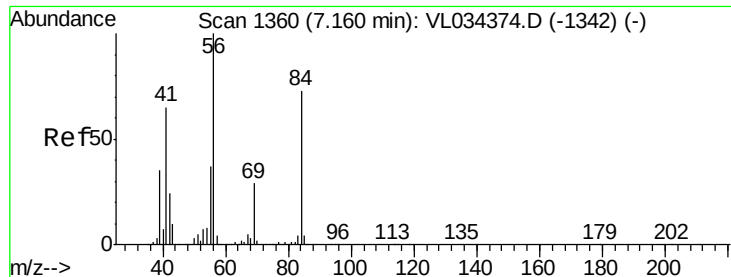
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

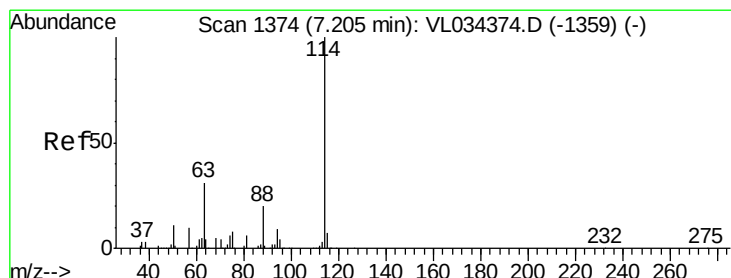
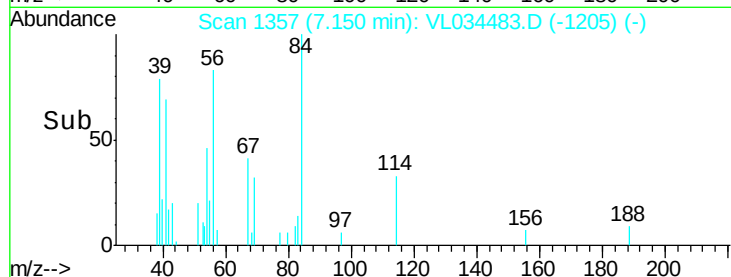
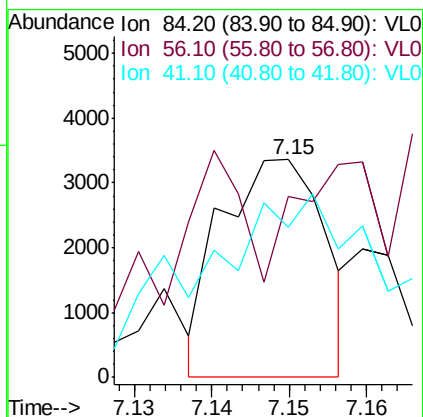
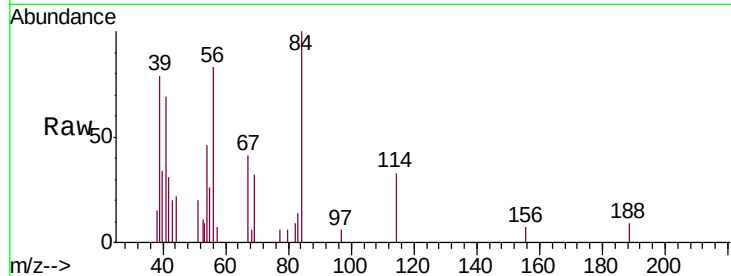




#30
Cyclohexane
Concen: 0.039 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

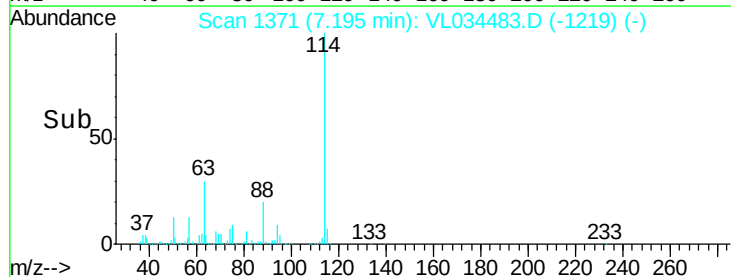
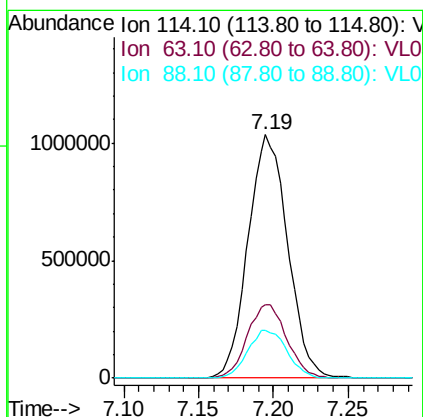
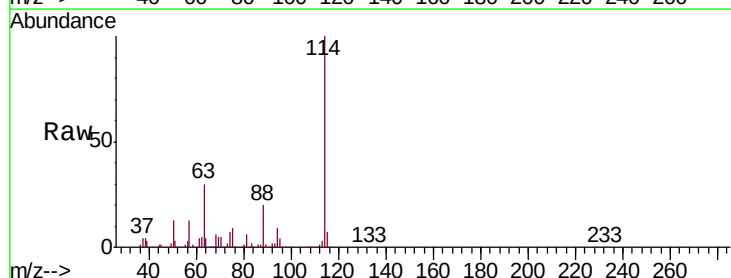
Instrument :
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1A-2DL

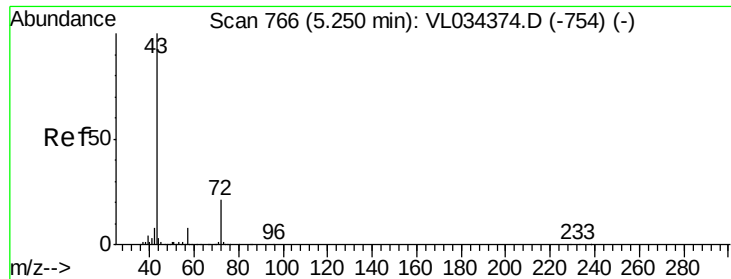
Tgt Ion: 84 Resp: 3135
Ion Ratio Lower Upper
84 100
56 0.0 112.6 169.0#
41 186.0 73.4 110.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 114 Resp: 1905959
Ion Ratio Lower Upper
114 100
63 30.2 24.2 36.4
88 19.7 15.9 23.9

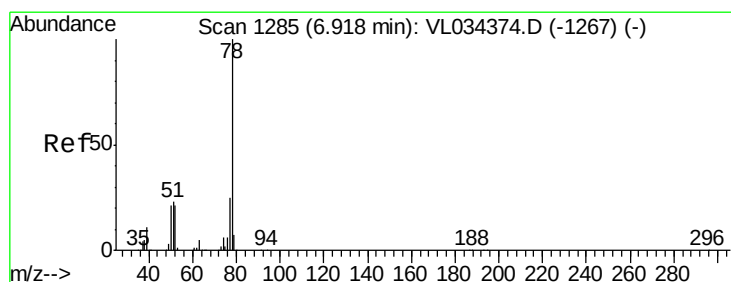
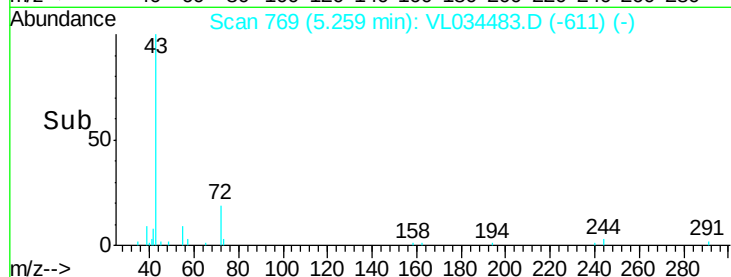
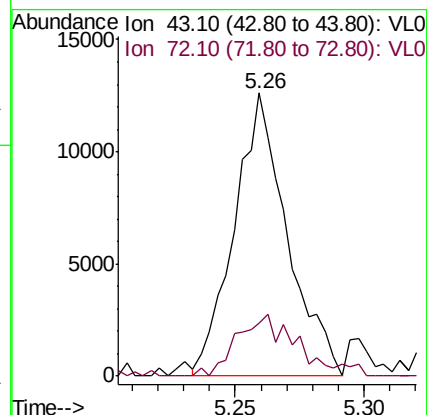
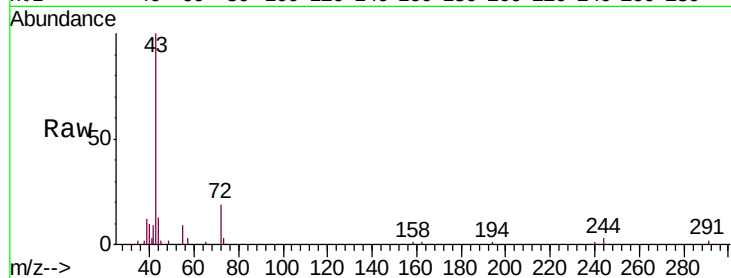




#34
2-Butanone
Concen: 0.115 ppbv
RT: 5.26 min Scan# 769
Delta R.T. 0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

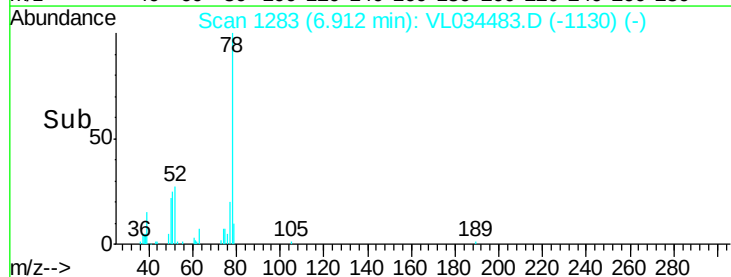
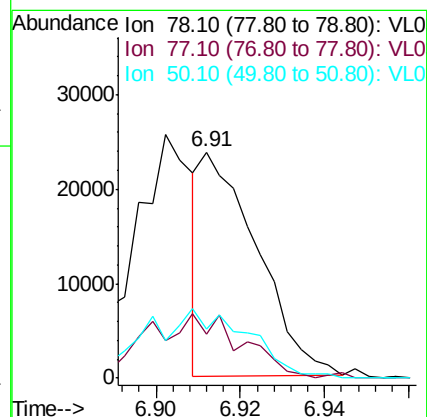
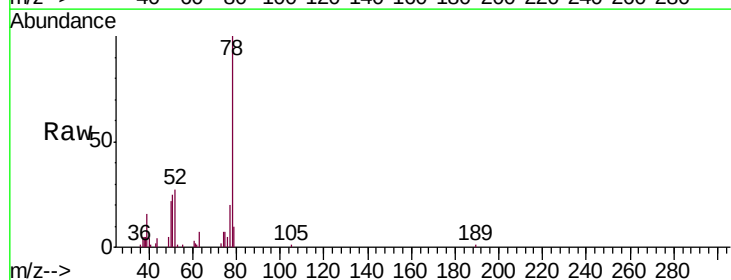
Instrument :
MSVOA_L
ClientSampleId :
1A-2DL

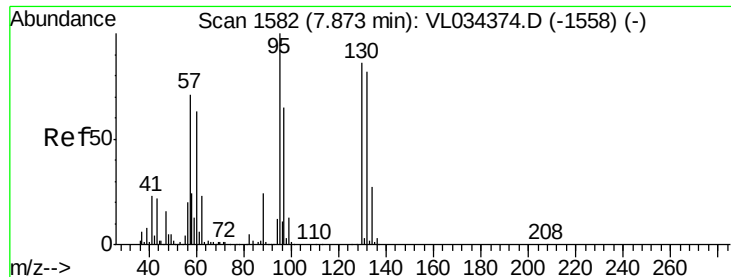
Tgt Ion: 43 Resp: 18074
Ion Ratio Lower Upper
43 100
72 25.7 17.0 25.6#



#36
Benzene
Concen: 0.115 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 78 Resp: 21987
Ion Ratio Lower Upper
78 100
77 17.5 20.2 30.4#
50 22.0 17.1 25.7





#38

Trichloroethene

Concen: 0.040 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. -0.02 min

Lab File: VL034483.D

Acq: 10 Dec 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

1A-2DL

Tgt Ion:130 Resp: 3147

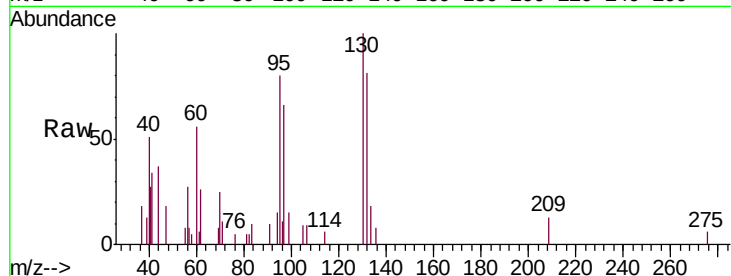
Ion Ratio Lower Upper

130 100

95 43.2 93.4 140.0#

132 67.1 76.4 114.6#

97 56.8 61.1 91.7#

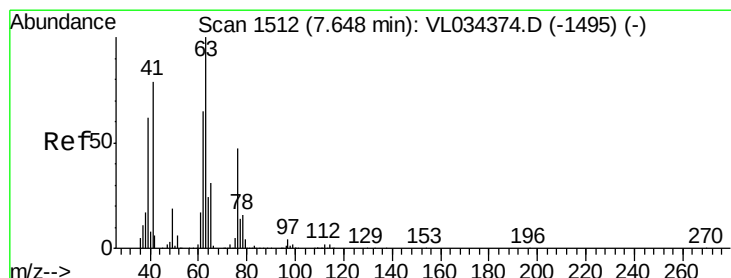
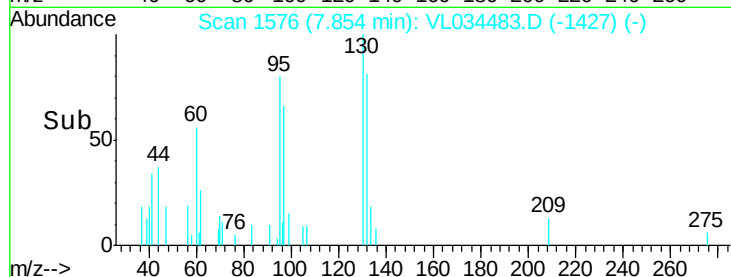
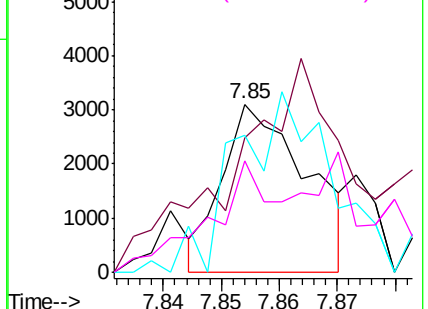


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.817 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.45 min

Lab File: VL034483.D

Acq: 10 Dec 2019 3:26

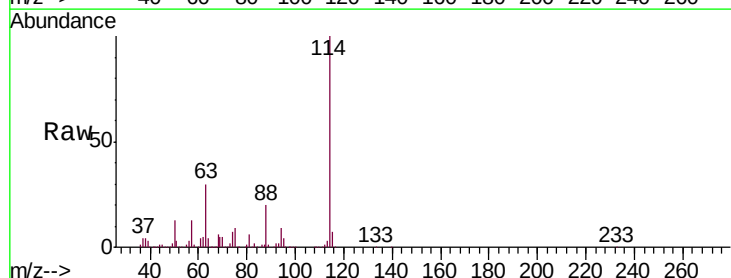
Tgt Ion: 63 Resp: 573762

Ion Ratio Lower Upper

63 100

41 0.0 63.1 94.7#

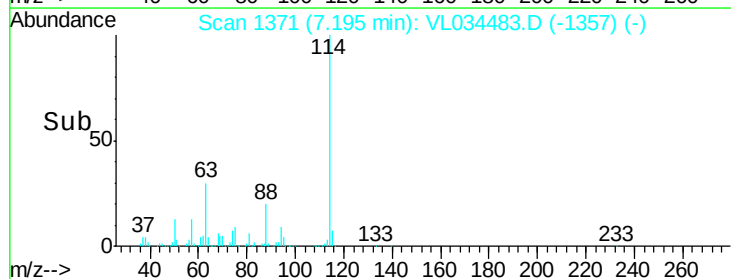
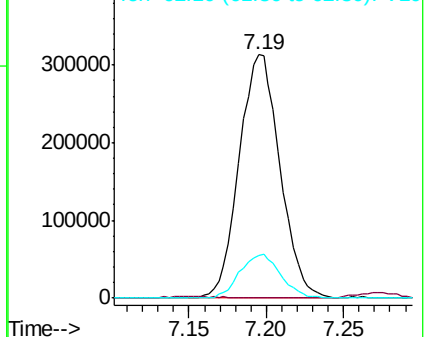
62 17.8 52.3 78.5#

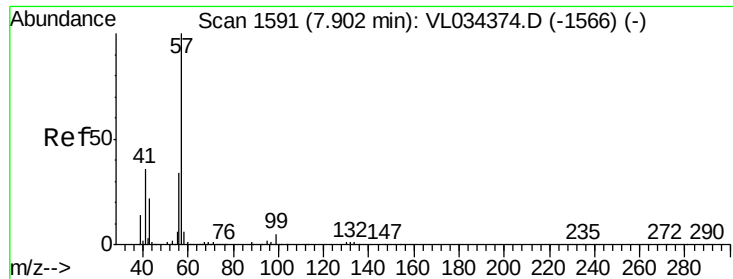


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

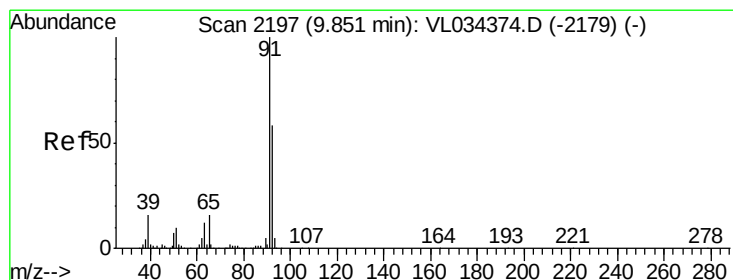
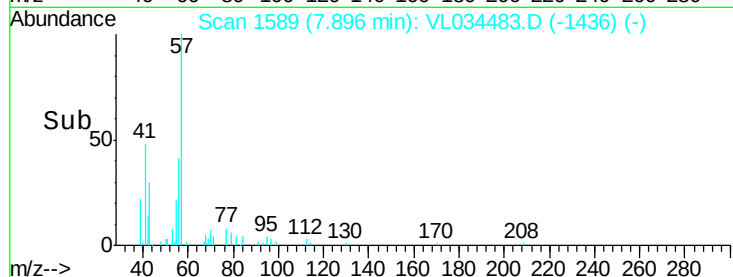
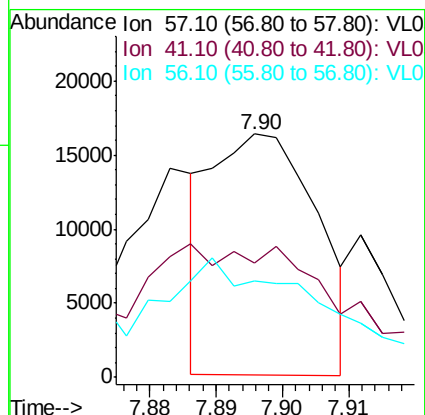
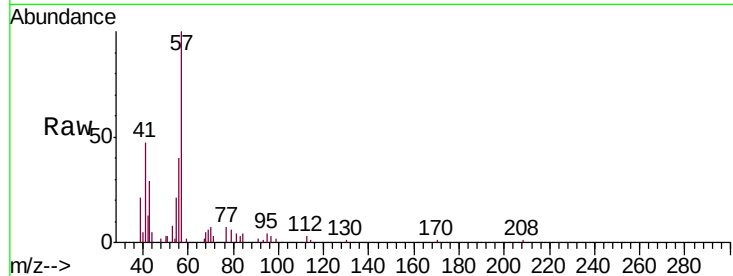




#44
 2,2,4-Trimethylpentane
 Concen: 0.052 ppbv
 RT: 7.90 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: VL034483.D
 Acq: 10 Dec 2019 3:26

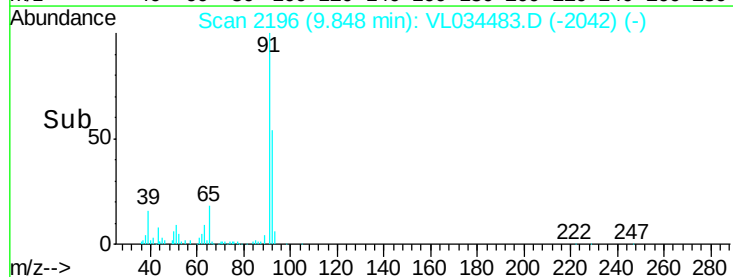
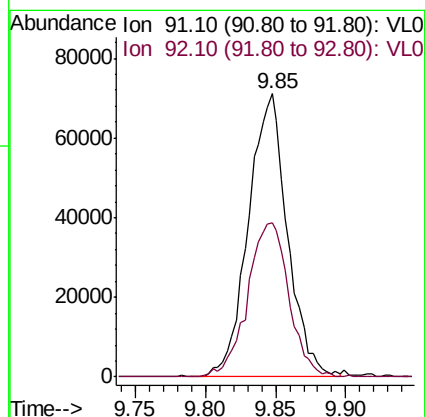
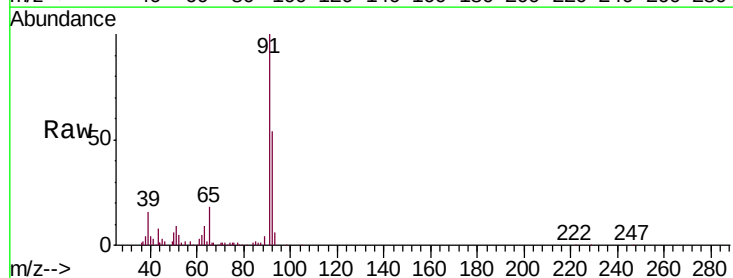
Instrument :
 MSVOA_L
 ClientSampleID :
 1A-2DL

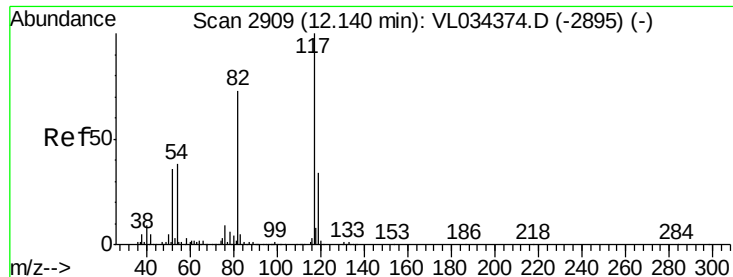
Tgt Ion: 57 Resp: 17944
 Ion Ratio Lower Upper
 57 100
 41 0.0 28.6 42.8#
 56 0.0 25.3 37.9#



#53
 Toluene
 Concen: 0.636 ppbv
 RT: 9.85 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VL034483.D
 Acq: 10 Dec 2019 3:26

Tgt Ion: 91 Resp: 137623
 Ion Ratio Lower Upper
 91 100
 92 57.5 47.9 71.9

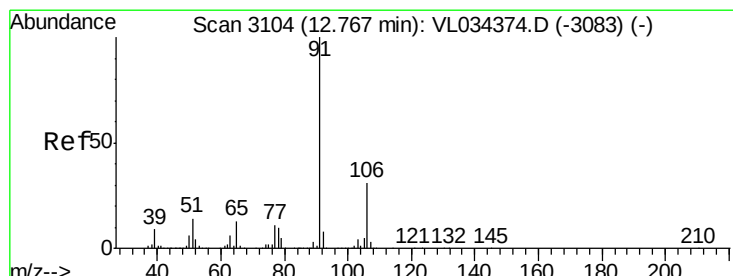
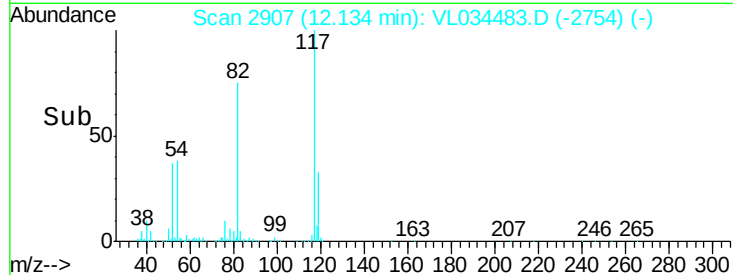
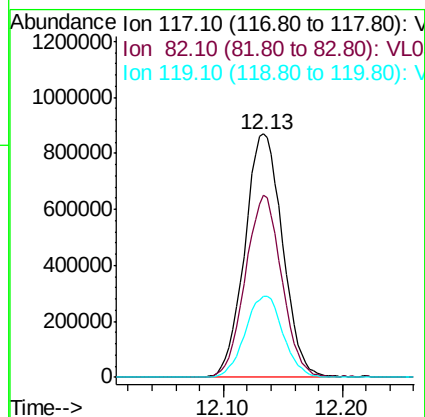
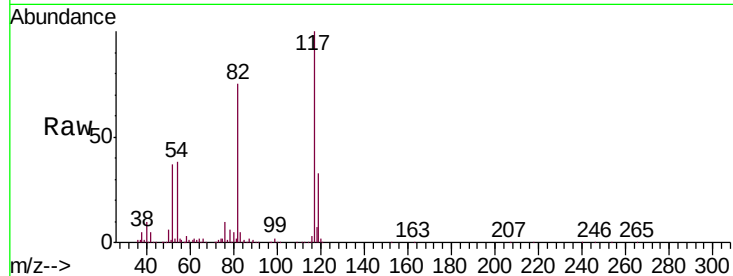




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

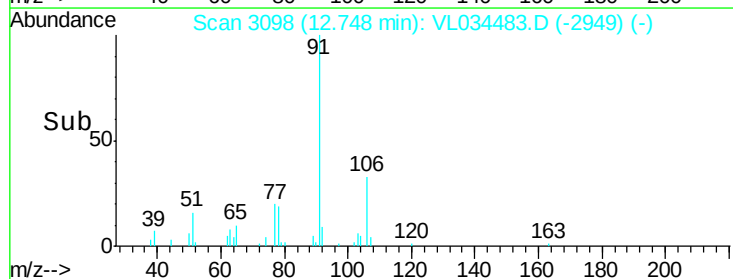
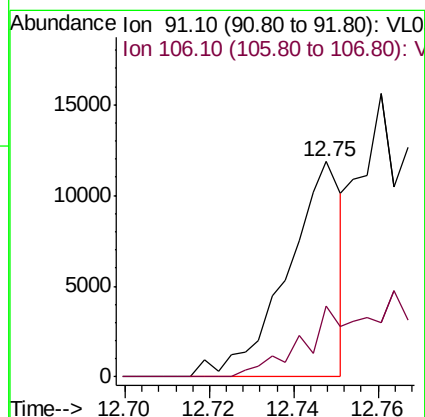
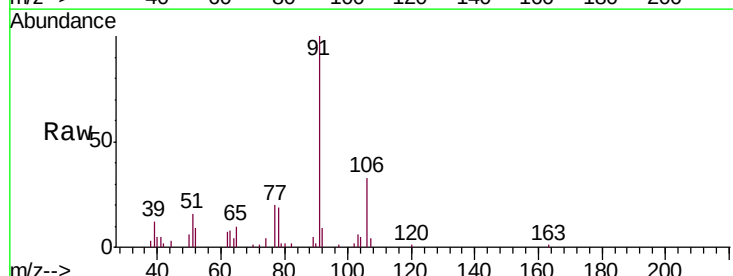
Instrument :
MSVOA_L
ClientSampleID :
1A-2DL

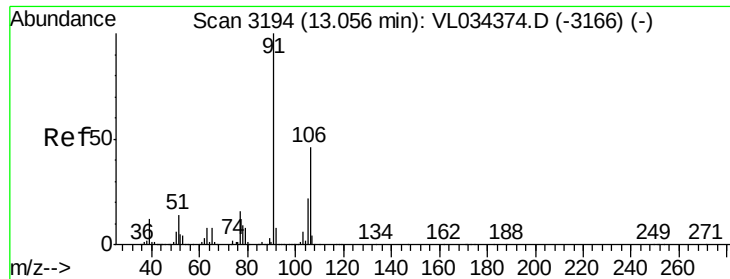
Tgt Ion: 117 Resp: 1913040
Ion Ratio Lower Upper
117 100
82 72.1 57.5 86.3
119 33.8 25.4 38.2



#58
Ethyl Benzene
Concen: 0.036 ppbv
RT: 12.75 min Scan# 3098
Delta R.T. -0.02 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 91 Resp: 10668
Ion Ratio Lower Upper
91 100
106 33.1 24.8 37.2

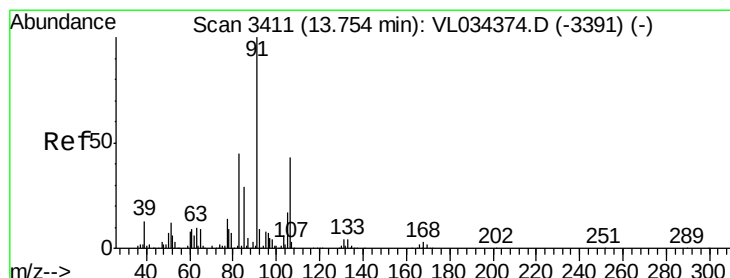
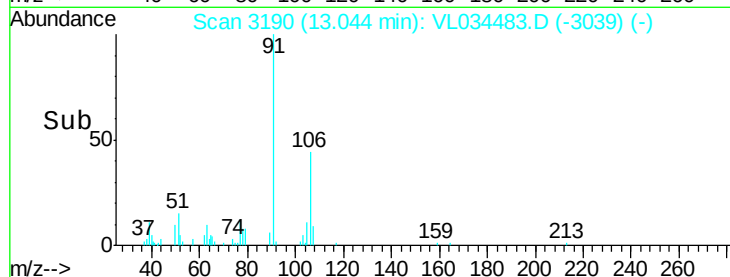
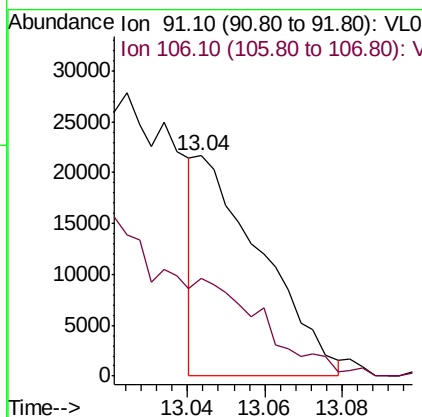
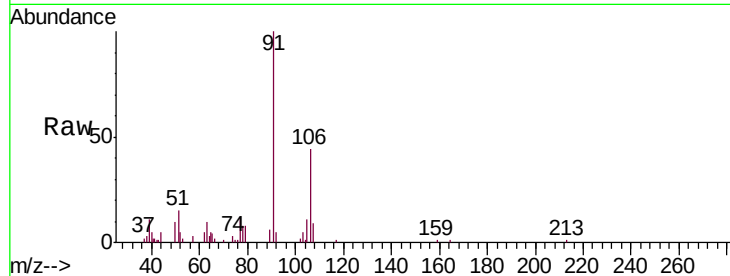




#59
m/p-Xylene
Concen: 0.099 ppbv
RT: 13.04 min Scan# 3190
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

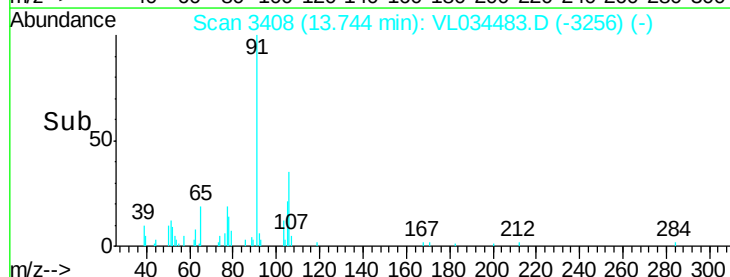
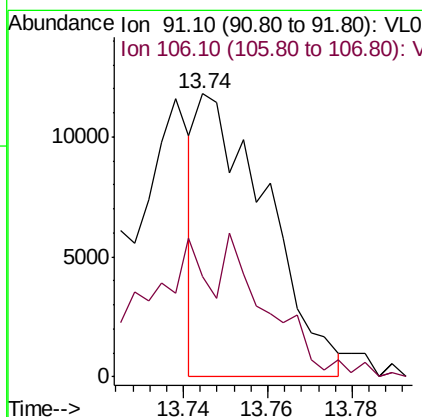
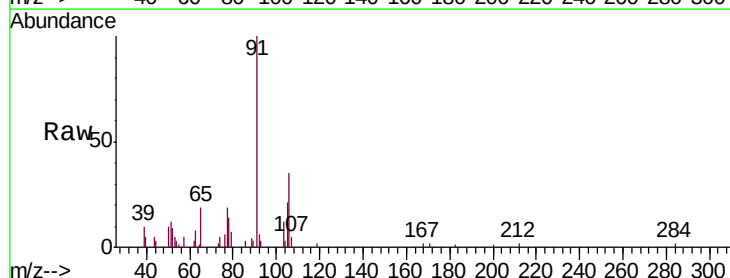
Instrument :
MSVOA_L
ClientSampleId :
1A-2DL

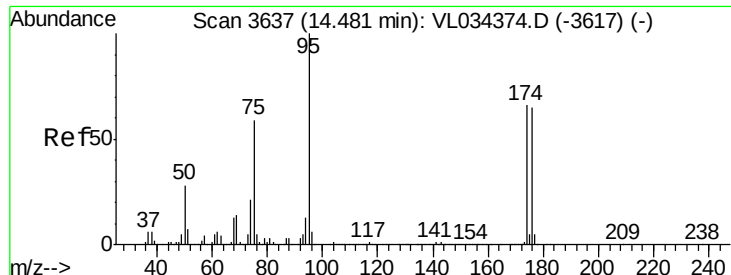
Tgt Ion: 91 Resp: 25380
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#



#60
o-Xylene
Concen: 0.053 ppbv
RT: 13.74 min Scan# 3408
Delta R.T. -0.01 min
Lab File: VL034483.D
Acq: 10 Dec 2019 3:26

Tgt Ion: 91 Resp: 13523
Ion Ratio Lower Upper
91 100
106 83.1 21.3 64.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.133 ppbv

RT: 14.47 min Scan# 3634

Delta R.T. -0.01 min

Lab File: VL034483.D

Acq: 10 Dec 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

1A-2DL

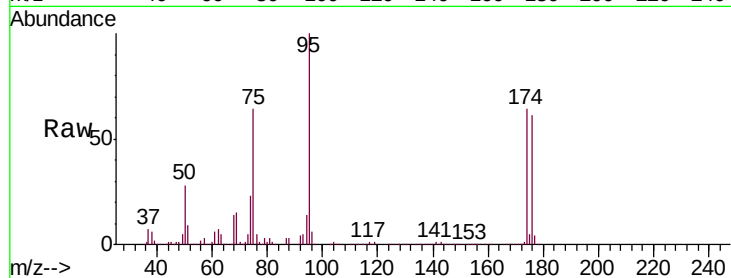
Tgt Ion: 95 Resp: 1630801

Ion Ratio Lower Upper

95 100

174 65.7 52.2 78.2

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

