

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034770.D
 Acq On : 3 Mar 2020 19:09
 Operator : SY/AP
 Sample : L1704-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4

Quant Time: Mar 04 05:48:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1069104	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.22	114	2204805	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	2272857	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1954879	10.49	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	43799	0.260	ppbv #	83
3) Chlorodifluoromethane	2.94	51	105111	0.911	ppbv #	76
4) Chloromethane	3.12	50	94856	1.469	ppbv	97
6) Bromomethane	3.47	94	922	0.025	ppbv	84
7) Chloroethane	3.54	64	1543	0.066	ppbv #	87
9) Propene	3.19	41	166713	3.457	ppbv	84
10) Heptane	8.17	43	771620	6.216	ppbv	99
11) Trichlorofluoromethane	3.94	101	39441	0.267	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.49	101	6761	0.065	ppbv	88
13) Ethanol	3.60	45	2435905	159.881	ppbv	98
15) Acetone	3.84	43	10619667	87.171	ppbv #	68
16) 1,3-Butadiene	3.29	39	22285	0.395	ppbv #	7
17) tert-Butyl alcohol	4.30	59	57951	0.621	ppbv #	54
19) Isopropyl Alcohol	3.98	45	50775	0.700	ppbv #	94
20) Methylene Chloride	4.35	84	210415	4.644	ppbv	93
21) Allyl Chloride	4.37	41	3444	0.043	ppbv #	1
23) Vinyl Acetate	5.09	43	12615142	76.169	ppbv #	54
25) Ethyl Acetate	5.70	43	388540	1.802	ppbv #	91
26) Hexane	5.70	57	336236	3.383	ppbv #	60
29) Chloroform	5.78	83	9040	0.057	ppbv	98
30) Cyclohexane	7.17	84	23124	0.300	ppbv #	1
34) 2-Butanone	5.27	43	221646	1.597	ppbv	97
35) Carbon Tetrachloride	7.06	117	4397	0.030	ppbv #	47
36) Benzene	6.93	78	81348	0.427	ppbv #	90
37) 1,2-Dichloroethane	6.34	62	3085	0.026	ppbv #	82
39) 1,2-Dichloropropane	7.22	63	636536	8.402	ppbv #	22
41) Tetrahydrofuran	6.33	42	11508	0.157	ppbv #	48
42) Bromodichloromethane	7.84	83	7127	0.045	ppbv #	24
44) 2,2,4-Trimethylpentane	7.91	57	31736	0.095	ppbv #	42
50) 4-Methyl-2-Pentanone	8.80	43	61922	0.315	ppbv	97
51) 2-Hexanone	10.16	43	11469	0.074	ppbv #	76
53) Toluene	9.86	91	9920269	48.980	ppbv	85
58) Ethyl Benzene	12.78	91	801939	2.916	ppbv	96
59) m/p-Xylene	13.03	91	2690683	11.219	ppbv	99
60) o-Xylene	13.76	91	894414	3.758	ppbv	98
61) Styrene	13.61	104	11382	0.074	ppbv #	27
62) Isopropylbenzene	14.74	105	89217	0.257	ppbv	99
64) n-propylbenzene	15.64	120	46511	0.520	ppbv #	1
65) tert-Butylbenzene	16.83	119	193568	0.646	ppbv #	63
66) Benzyl Chloride	16.94	91	2958	0.026	ppbv #	1
67) sec-Butylbenzene	17.38	105	11214	0.026	ppbv #	59

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ClientSampleId :
IA-1-4

Quant Time: Mar 04 05:48:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020
QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration

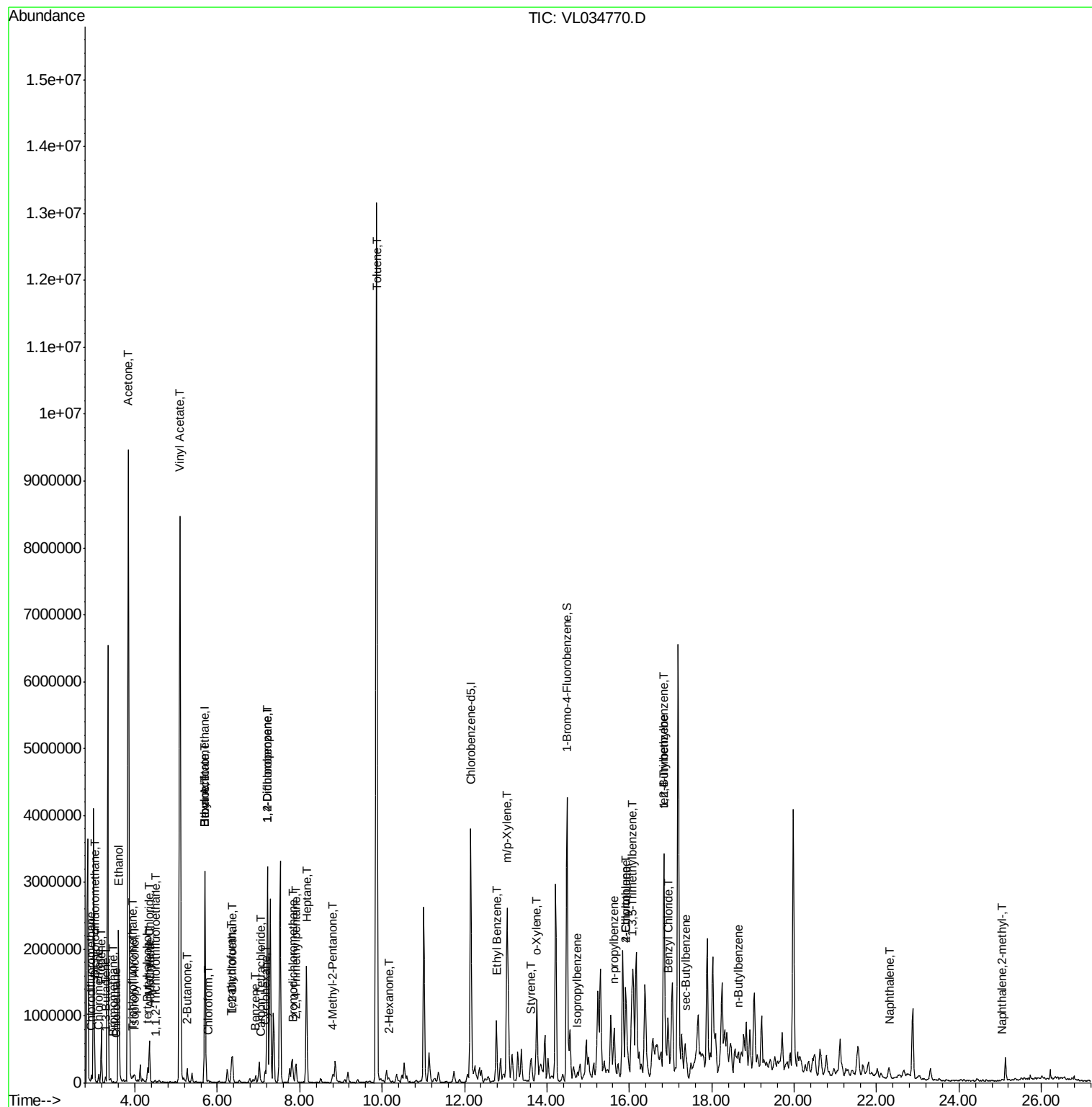
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	18.64	91	21543	0.056	ppbv #	33
71) 2-Chlorotoluene	15.91	91	33287	0.124	ppbv	76
72) 4-Ethyltoluene	15.91	105	703198	2.655	ppbv	98
73) 1,3,5-Trimethylbenzene	16.07	105	622960	2.445	ppbv	94
74) 1,2,4-Trimethylbenzene	16.83	105	1773455	6.302	ppbv #	67
79) Naphthalene	22.32	128	16714	0.067	ppbv	97
80) Naphthalene,2-methyl-	25.04	142	12459	0.163	ppbv #	83

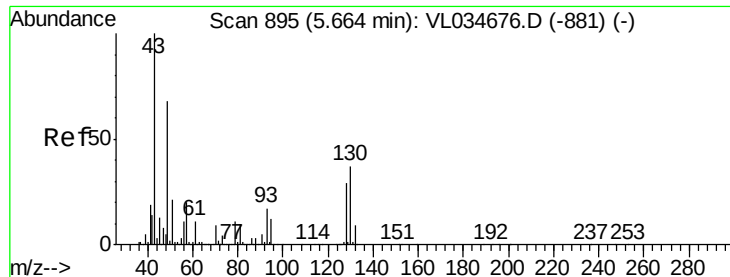
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampled :

IA-1-4

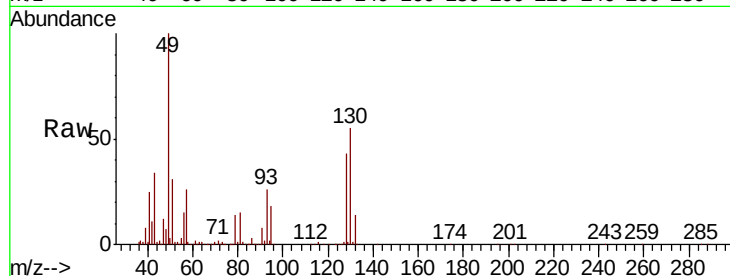
Tot Ion: 49 Resp: 1069104

Ion Ratio Lower Upper

49 100

128 43.5 21.6 65.0

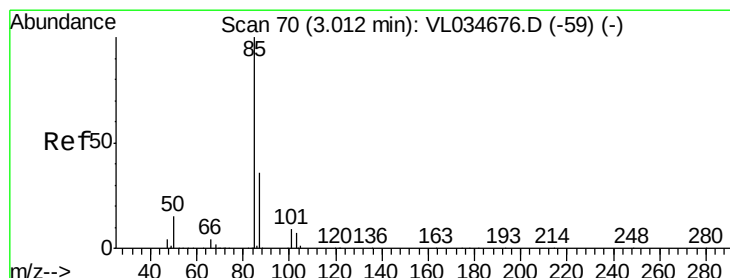
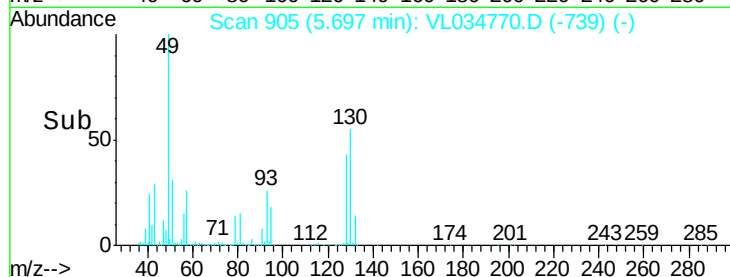
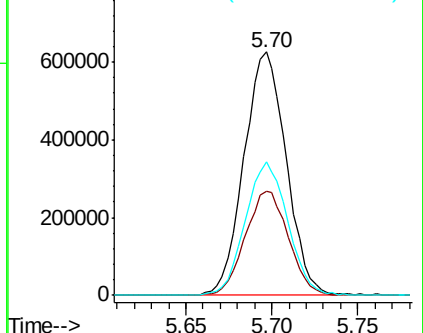
130 55.2 27.7 83.1



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: 0.260 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL034770.D

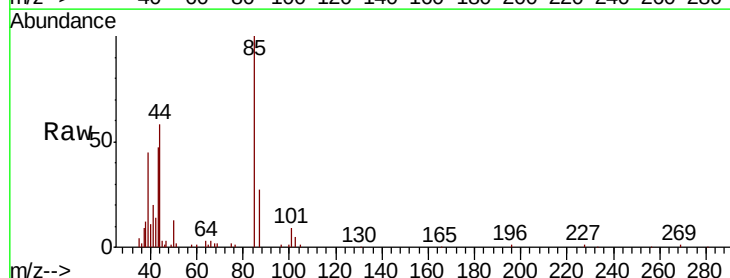
Acq: 3 Mar 2020 19:09

Tgt Ion: 85 Resp: 43799

Ion Ratio Lower Upper

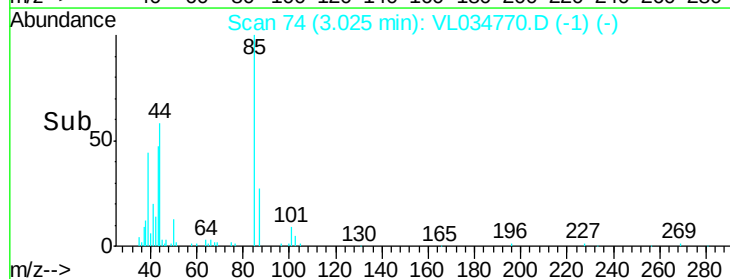
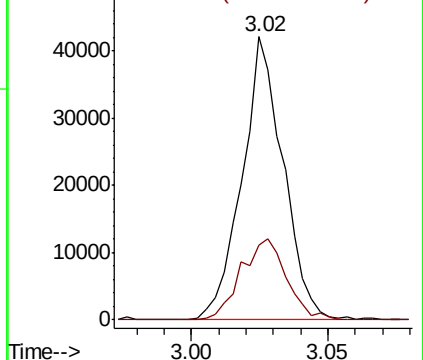
85 100

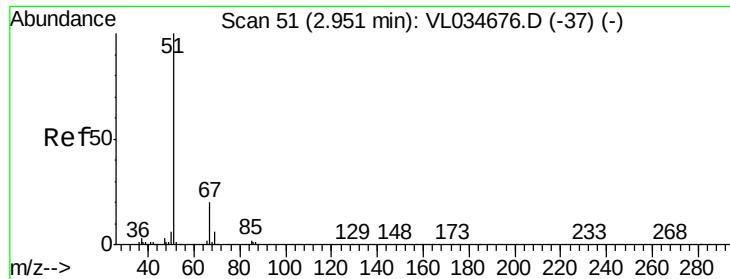
87 26.5 29.2 43.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

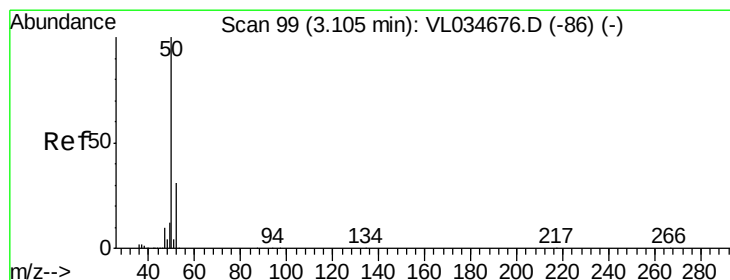
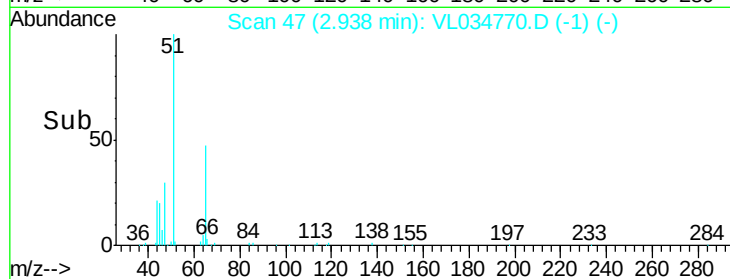
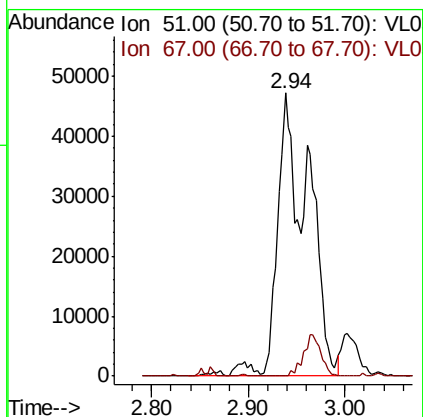
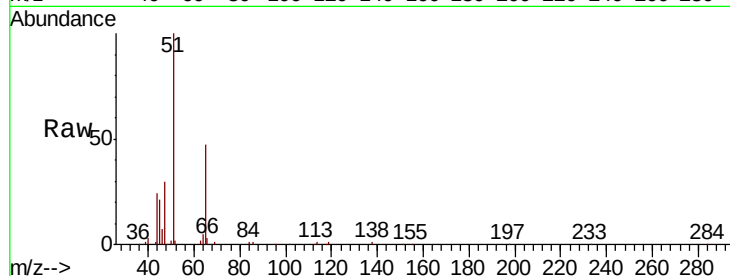




#3
Chlorodifluoromethane
Concen: 0.911 ppbv
RT: 2.94 min Scan# 47
Delta R.T. -0.01 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

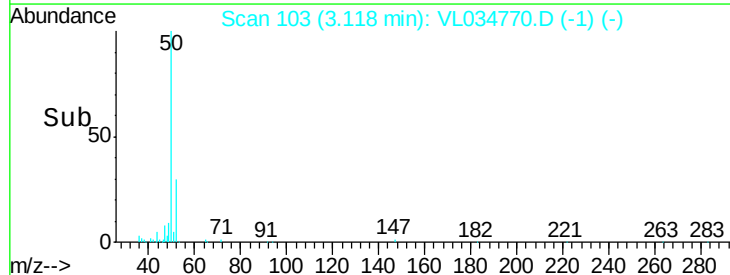
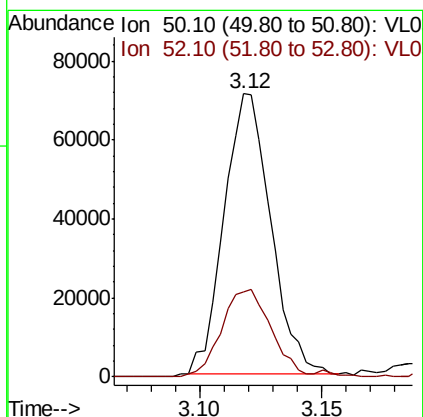
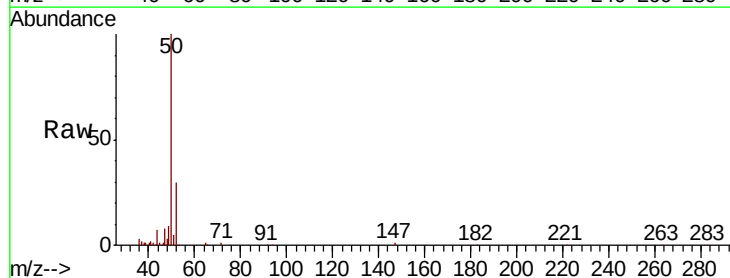
Instrument :
MSVOA_L
ClientSampleId :
IA-1-4

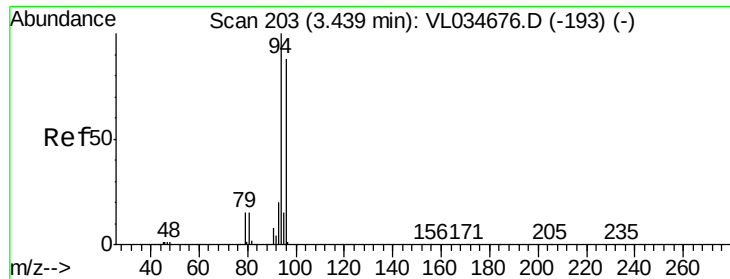
Tot Ion: 51 Resp: 105111
Ion Ratio Lower Upper
51 100
67 8.3 15.5 23.3#



#4
Chloromethane
Concen: 1.469 ppbv
RT: 3.12 min Scan# 103
Delta R.T. 0.01 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

Tgt Ion: 50 Resp: 94856
Ion Ratio Lower Upper
50 100
52 29.8 25.0 37.4





#6

Bromomethane

Concen: 0.025 ppbv

RT: 3.47 min Scan# 211

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

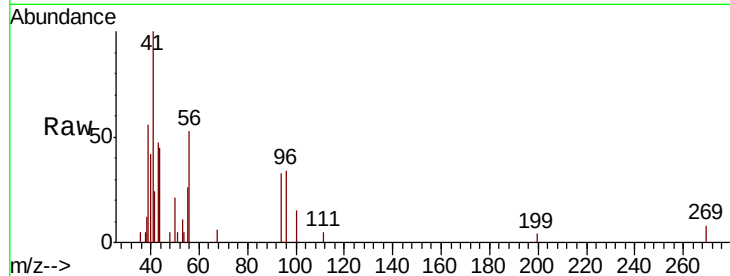
IA-1-4

Tot Ion: 94 Resp: 922

Ion Ratio Lower Upper

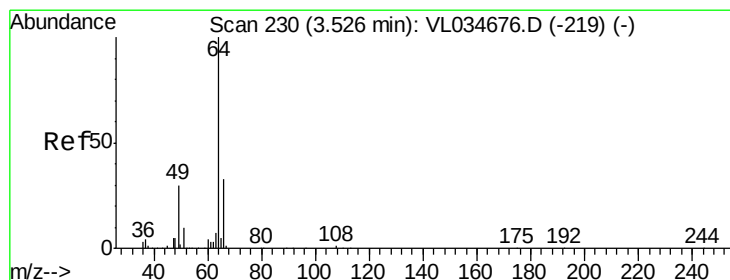
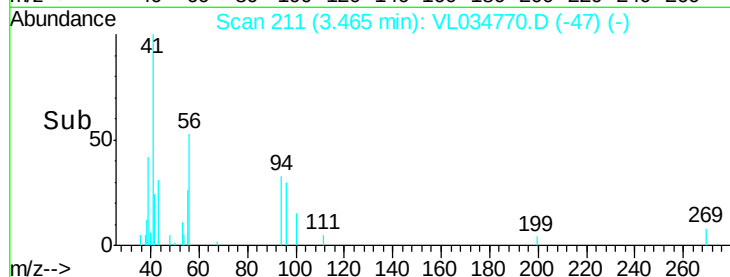
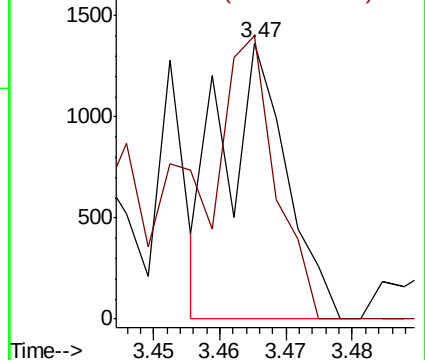
94 100

96 102.6 70.5 105.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 0.066 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.02 min

Lab File: VL034770.D

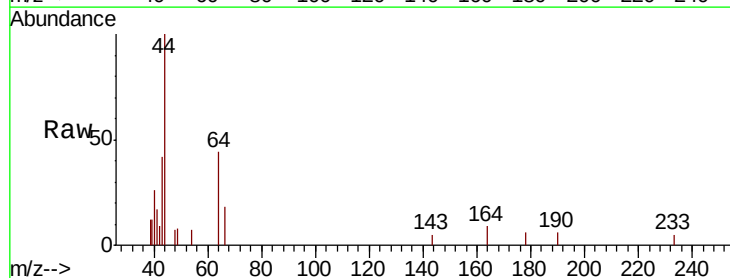
Acq: 3 Mar 2020 19:09

Tgt Ion: 64 Resp: 1543

Ion Ratio Lower Upper

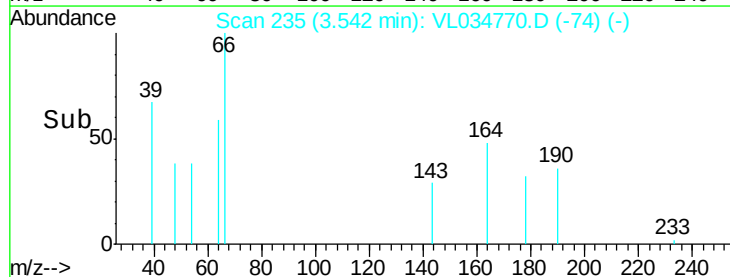
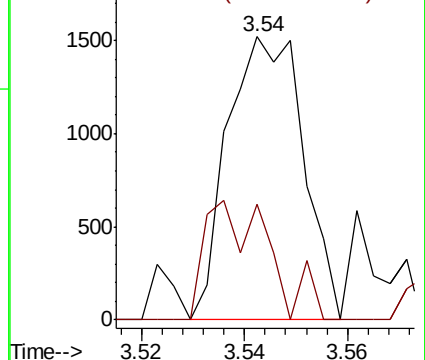
64 100

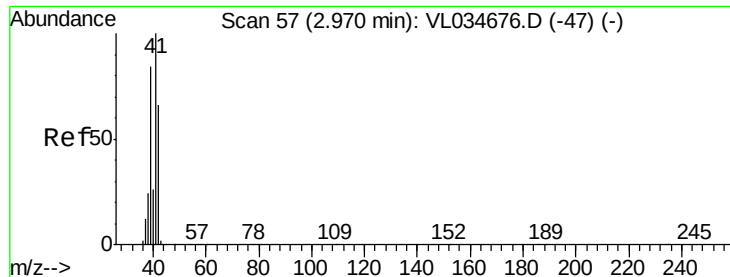
66 40.9 26.7 40.1#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 3.457 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.22 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

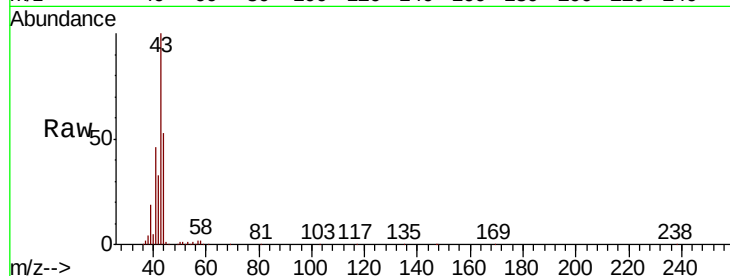
IA-1-4

Tot Ion: 41 Resp: 166713

Ion Ratio Lower Upper

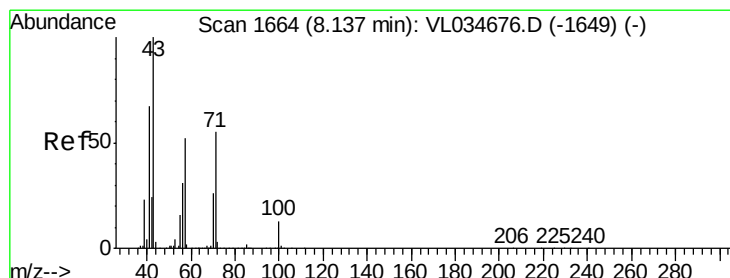
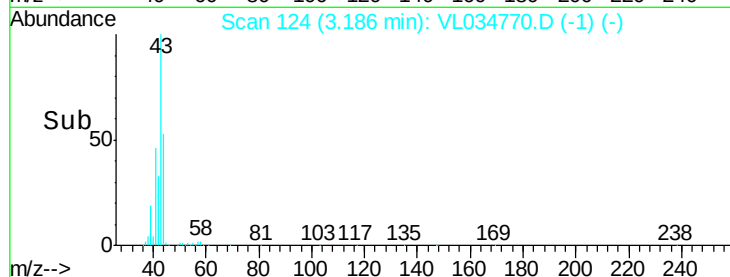
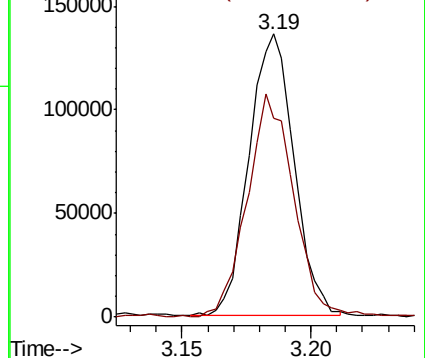
41 100

42 81.7 54.9 82.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 6.216 ppbv

RT: 8.17 min Scan# 1673

Delta R.T. 0.03 min

Lab File: VL034770.D

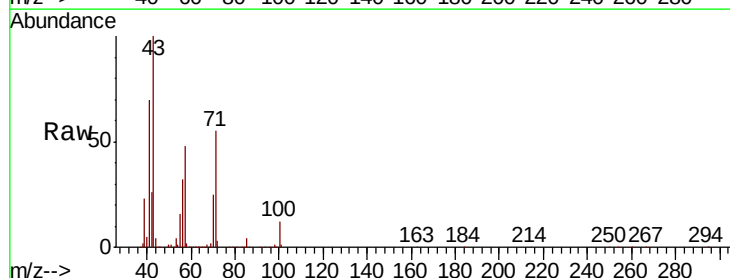
Acq: 3 Mar 2020 19:09

Tgt Ion: 43 Resp: 771620

Ion Ratio Lower Upper

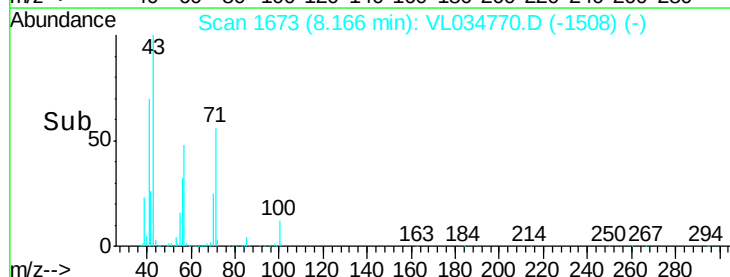
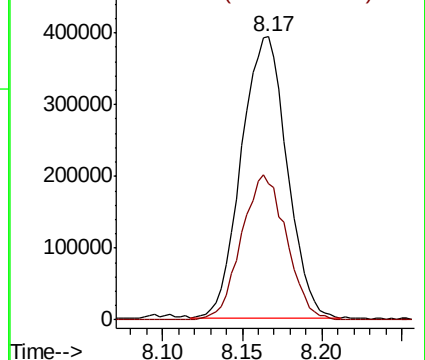
43 100

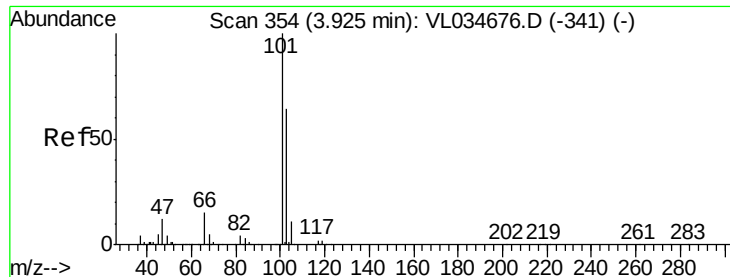
57 50.5 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.267 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.02 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

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ClientSampleId :

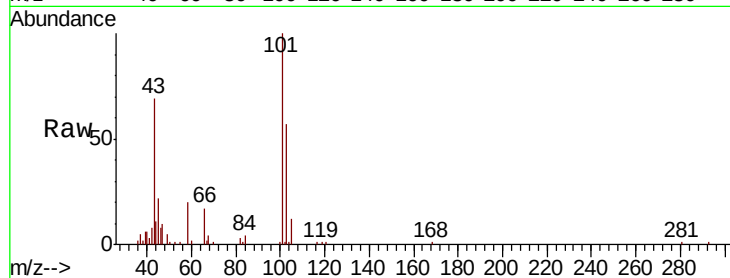
IA-1-4

Tot Ion:101 Resp: 39441

Ion Ratio Lower Upper

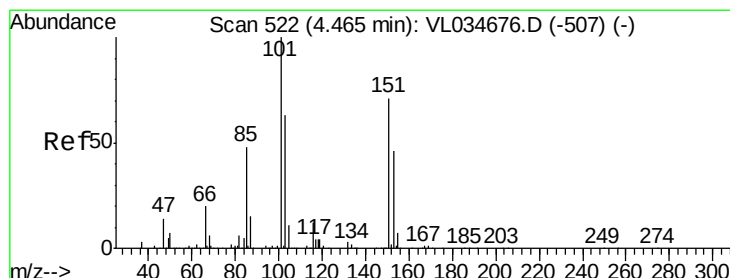
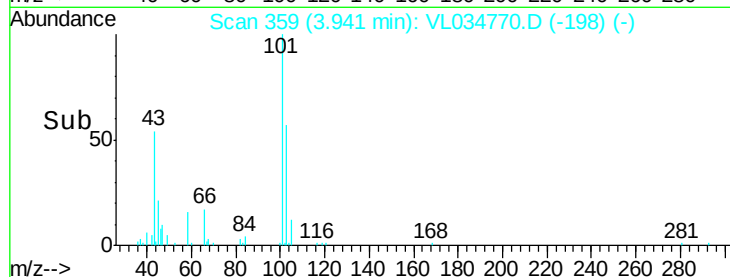
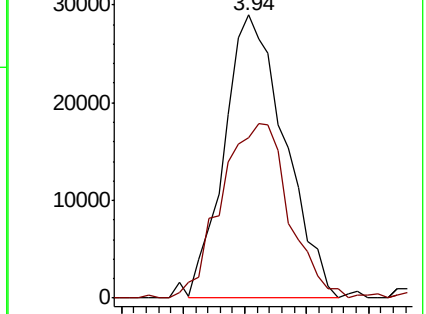
101 100

103 53.3 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.065 ppbv

RT: 4.49 min Scan# 529

Delta R.T. 0.02 min

Lab File: VL034770.D

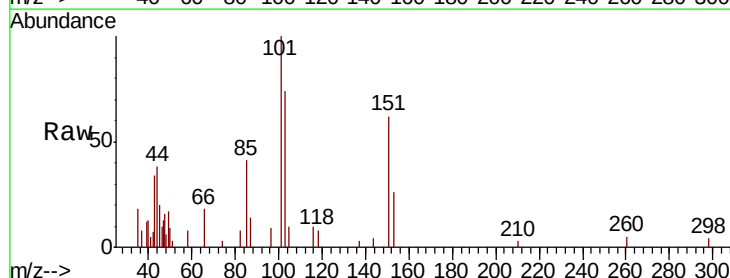
Acq: 3 Mar 2020 19:09

Tgt Ion:101 Resp: 6761

Ion Ratio Lower Upper

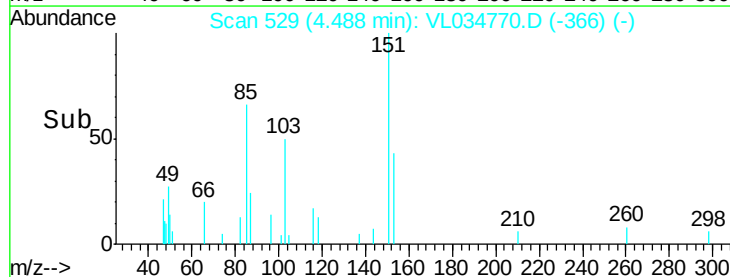
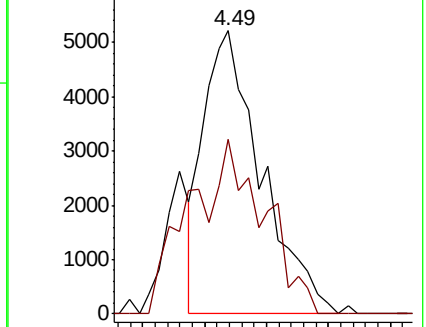
101 100

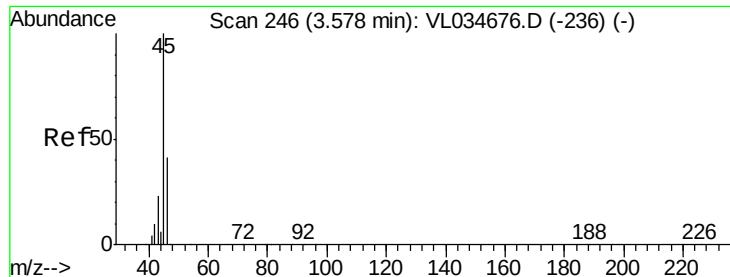
151 79.5 55.8 83.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

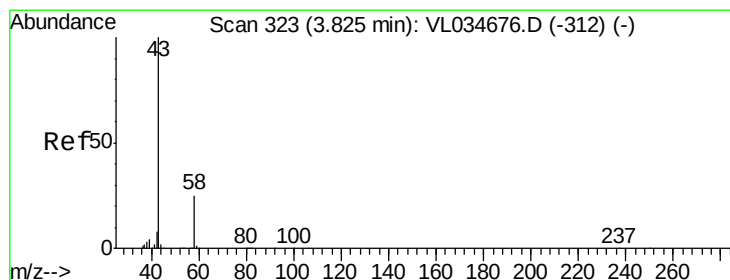
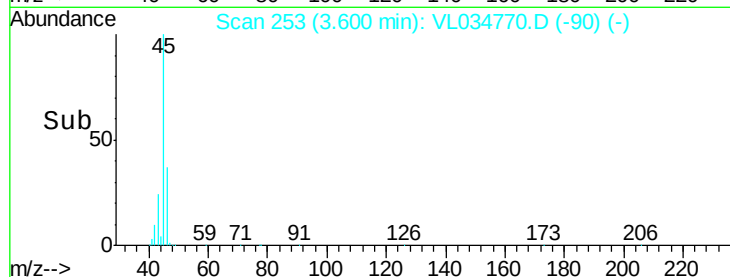
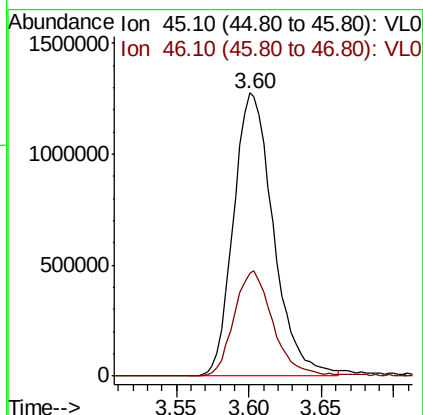
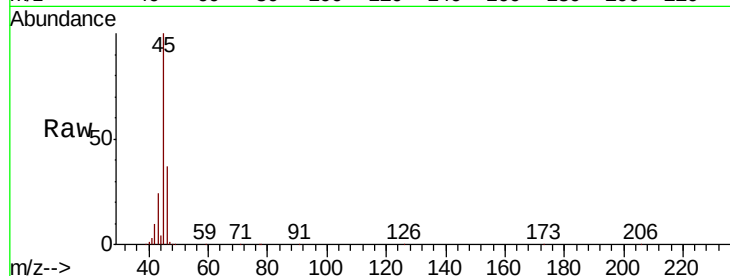




#13
Ethanol
Concen: 159.881 ppbv
RT: 3.60 min Scan# 253
Delta R.T. 0.02 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

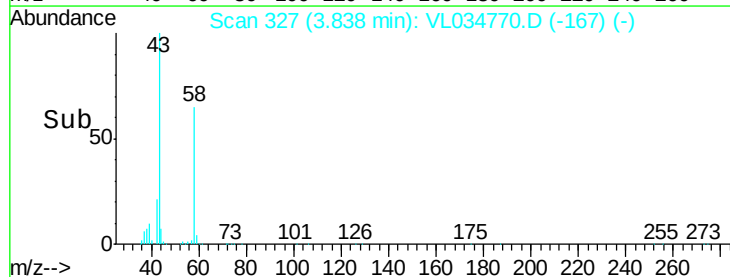
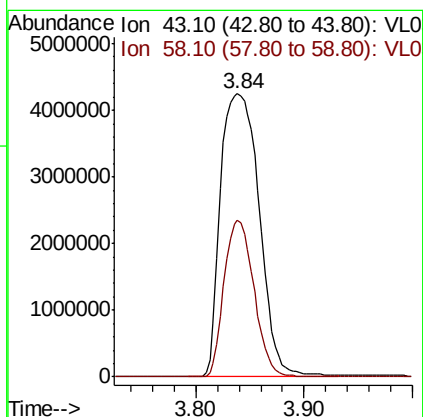
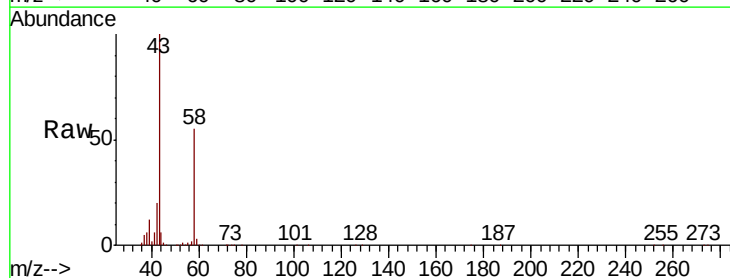
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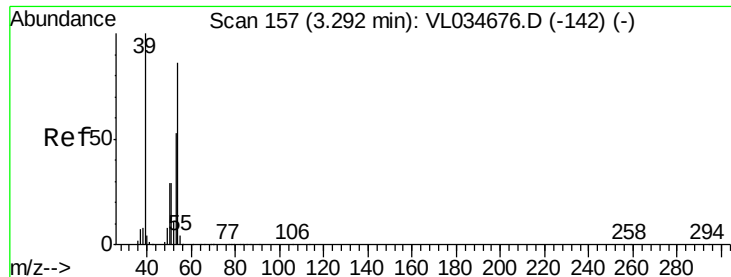
Tot Ion: 45 Resp: 2435905
Ion Ratio Lower Upper
45 100
46 37.1 15.4 61.4



#15
Acetone
Concen: 87.171 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.01 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

Tgt Ion: 43 Resp: 10619667
Ion Ratio Lower Upper
43 100
58 43.1 21.4 32.0#

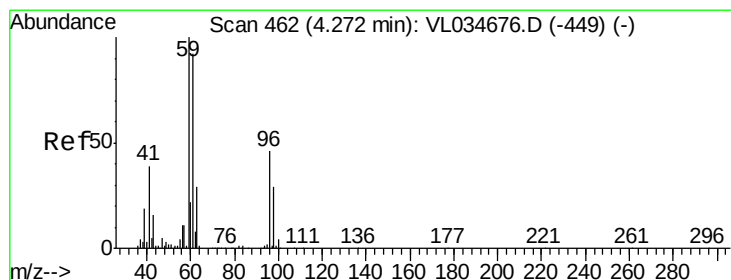
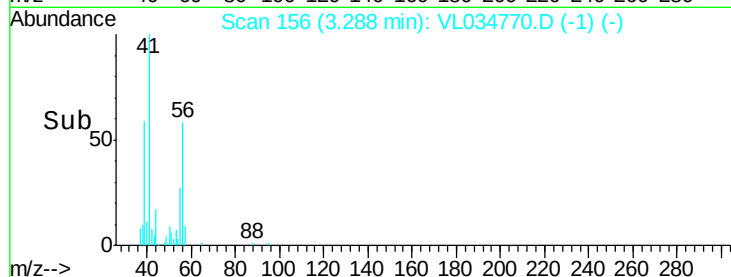
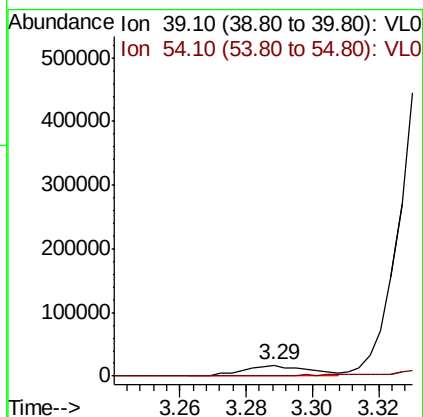
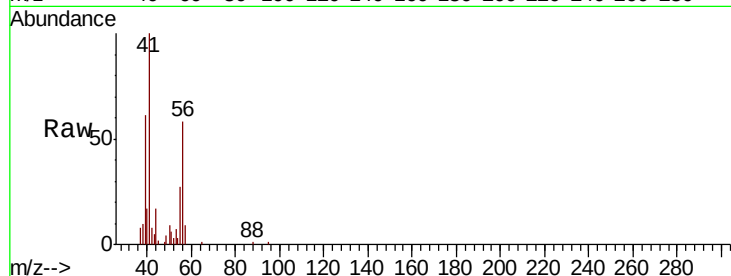




#16
 1,3-Butadiene
 Concen: 0.395 ppbv
 RT: 3.29 min Scan# 156
 Delta R.T. -0.00 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

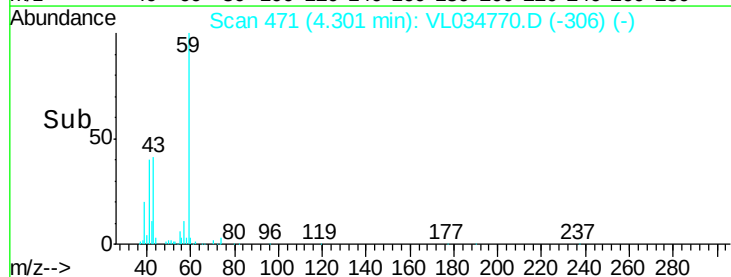
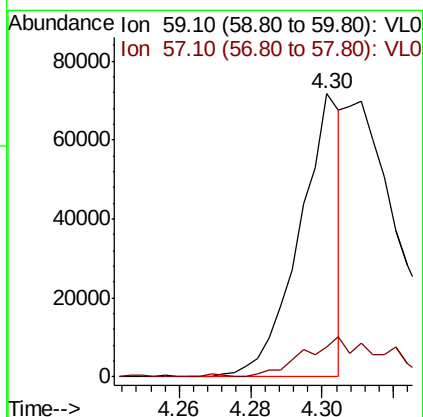
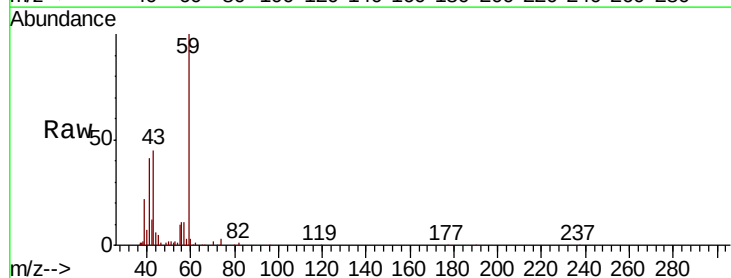
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4

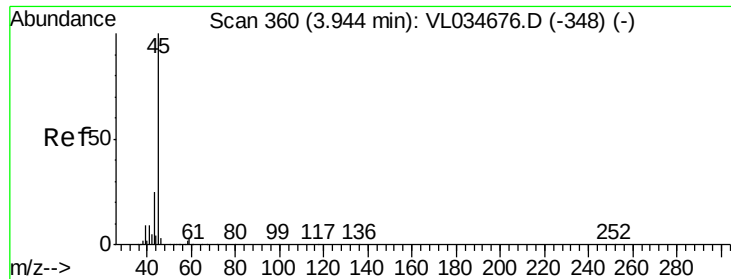
Tot Ion: 39 Resp: 22285
 Ion Ratio Lower Upper
 39 100
 54 0.0 67.0 100.6#



#17
 tert-Butyl alcohol
 Concen: 0.621 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. 0.03 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

Tgt Ion: 59 Resp: 57951
 Ion Ratio Lower Upper
 59 100
 57 28.3 8.8 13.2#





#19

Isopropyl Alcohol

Concen: 0.700 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

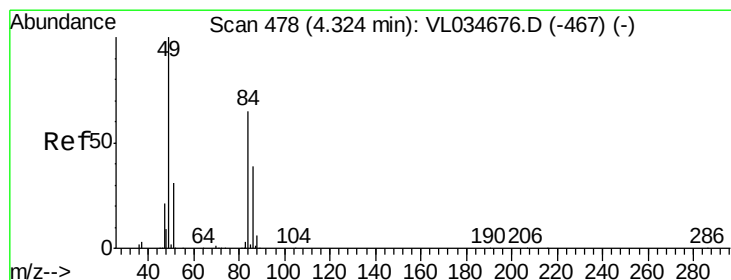
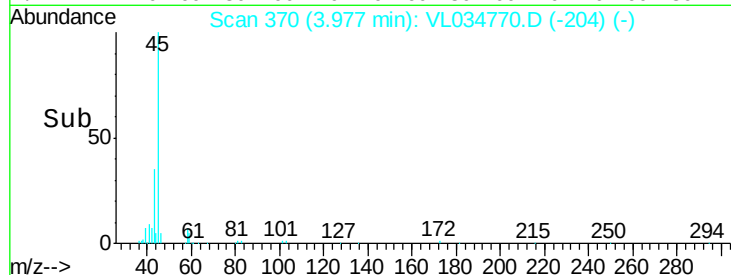
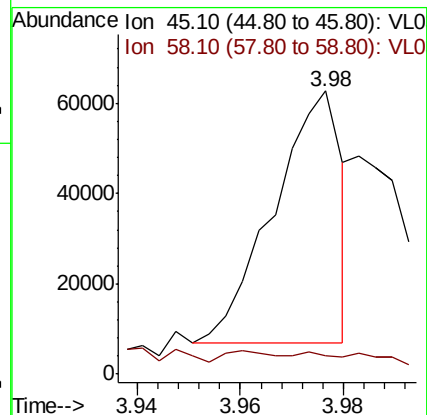
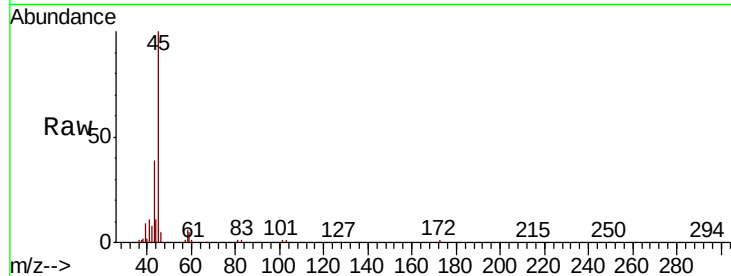
IA-1-4

Tot Ion: 45 Resp: 50775

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#



#20

Methylene Chloride

Concen: 4.644 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Tgt Ion: 84 Resp: 210415

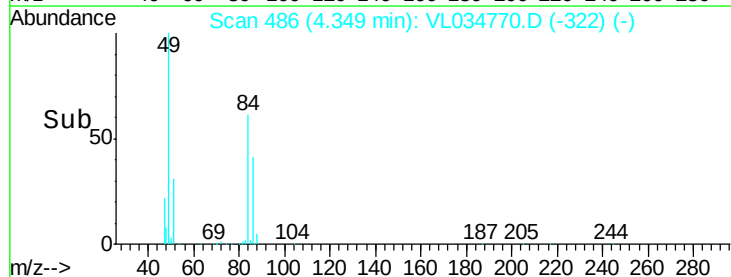
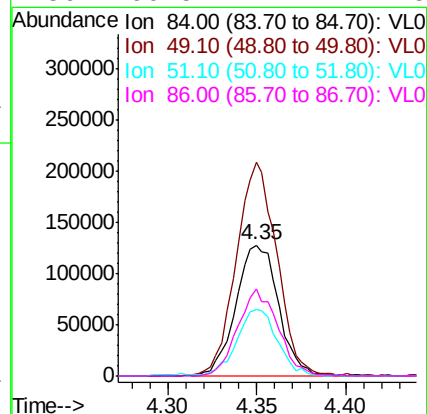
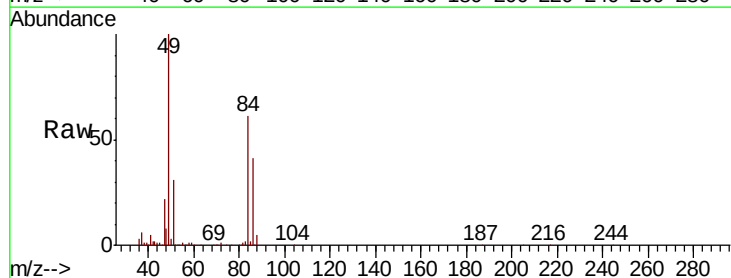
Ion Ratio Lower Upper

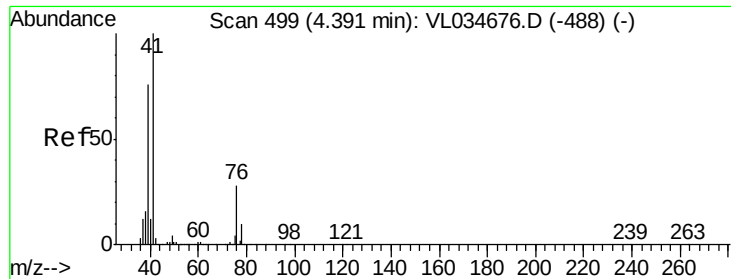
84 100

49 162.6 122.8 184.2

51 51.0 38.6 58.0

86 66.5 47.7 71.5

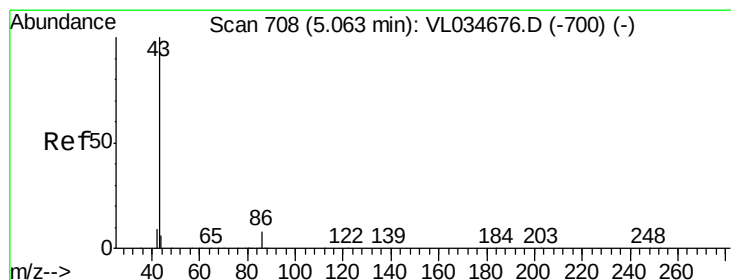
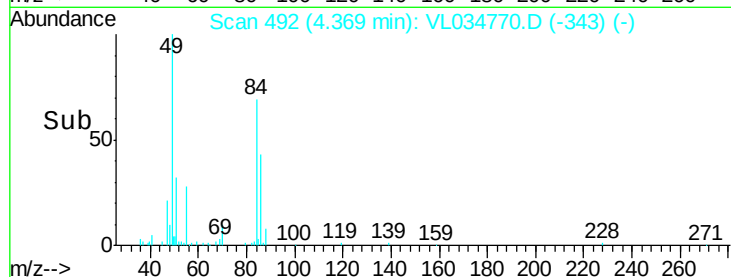
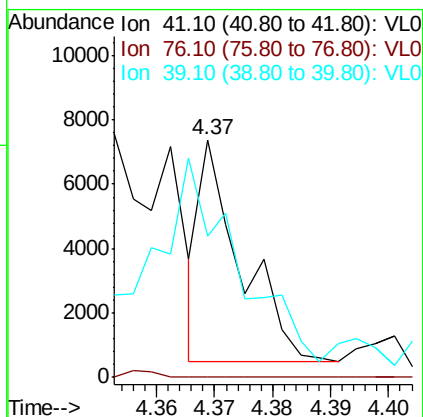
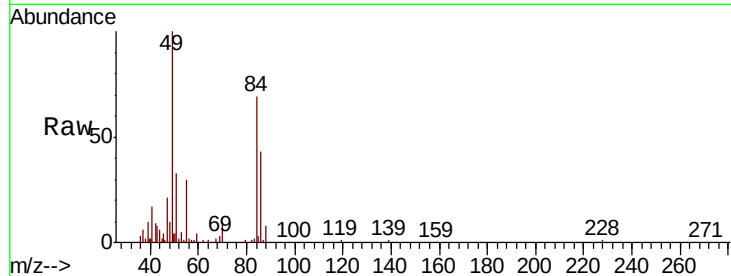




#21
Allvl Chloride
Concen: 0.043 ppbv
RT: 4.37 min Scan# 492
Delta R.T. -0.02 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

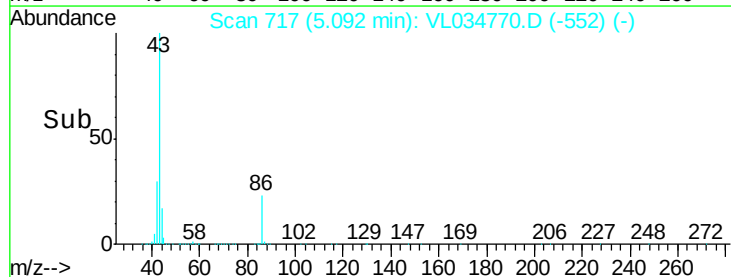
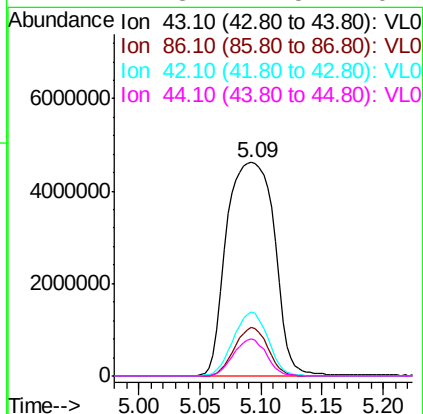
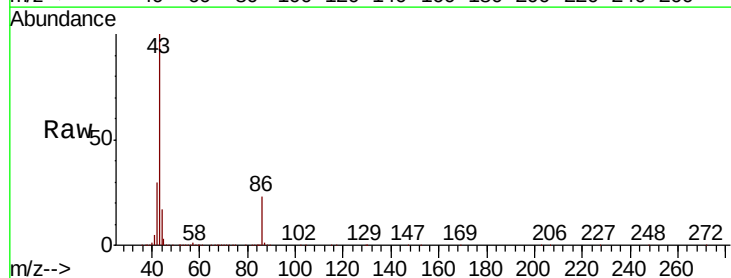
Instrument :
MSVOA_L
ClientSampleId :
IA-1-4

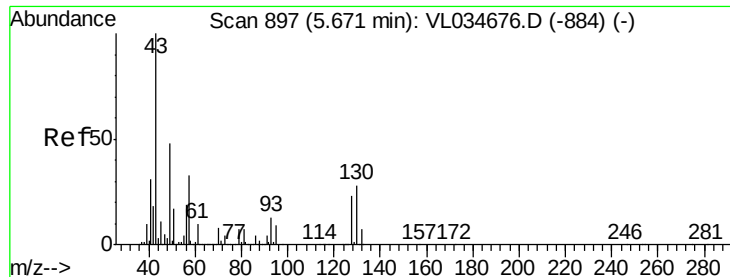
Tot Ion: 41 Resp: 3444
Ion Ratio Lower Upper
41 100
76 0.0 22.8 34.2#
39 187.8 61.7 92.5#



#23
Vinyl Acetate
Concen: 76.169 ppbv
RT: 5.09 min Scan# 717
Delta R.T. 0.03 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

Tgt Ion: 43 Resp:12615142
Ion Ratio Lower Upper
43 100
86 22.9 6.0 9.0#
42 30.1 8.0 12.0#
44 17.3 4.5 6.7#

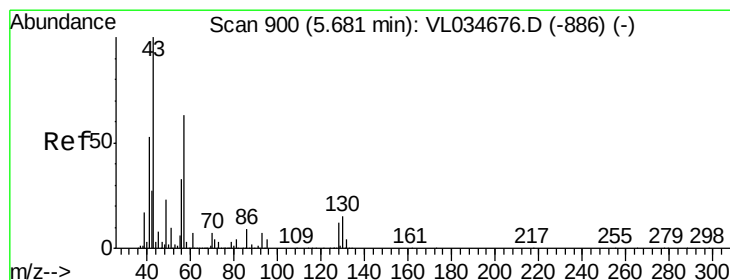
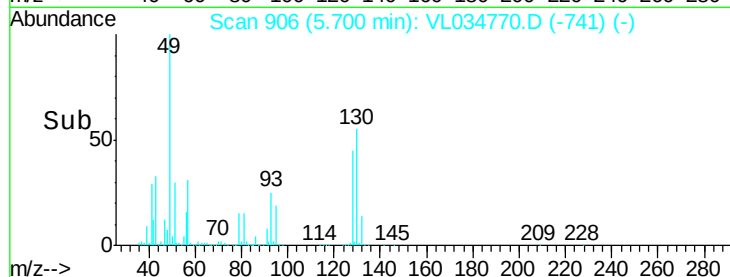
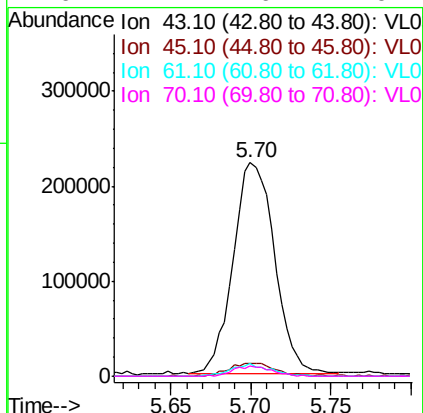
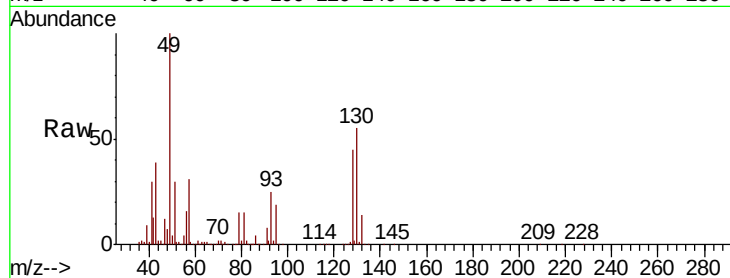




#25
Ethyl Acetate
Concen: 1.802 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.03 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

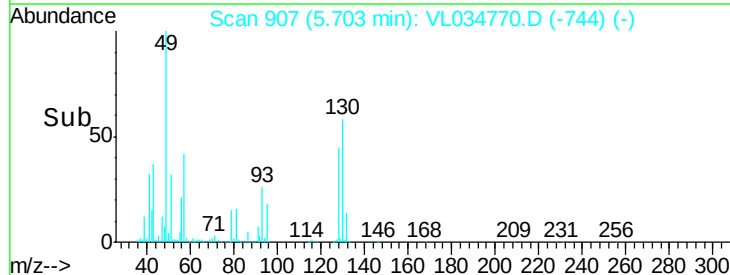
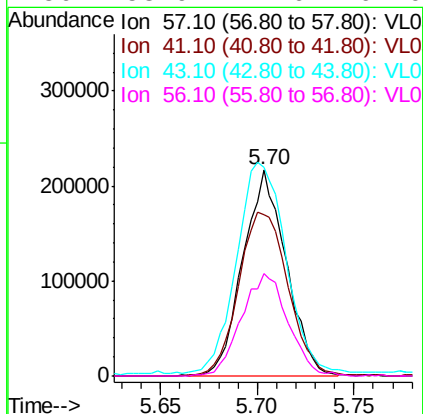
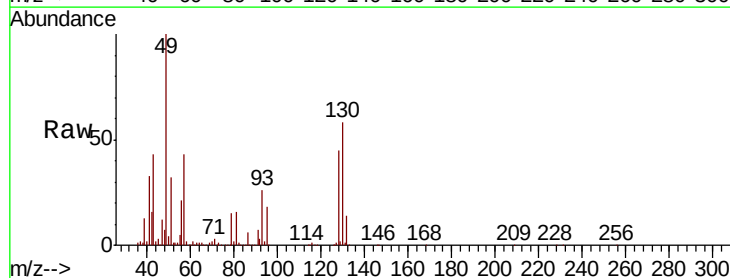
Instrument :
MSVOA_L
ClientSampleId :
IA-1-4

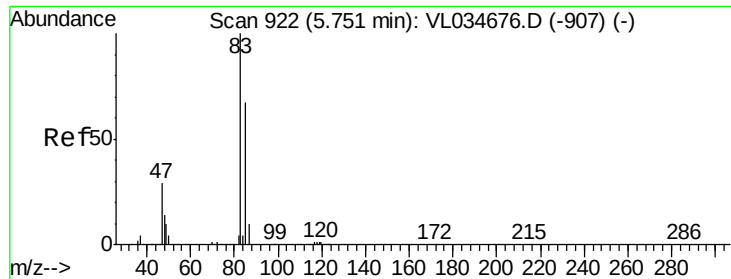
Tot Ion:	43	Resp:	388540
Ion	Ratio	Lower	Upper
43	100		
45	7.6	8.2	12.4#
61	5.8	7.8	11.6#
70	4.7	6.1	9.1#



#26
Hexane
Concen: 3.383 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.02 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

Tgt Ion:	57	Resp:	336236
Ion	Ratio	Lower	Upper
57	100		
41	90.3	70.3	105.5
43	117.9	177.0	265.4#
56	53.9	42.6	64.0

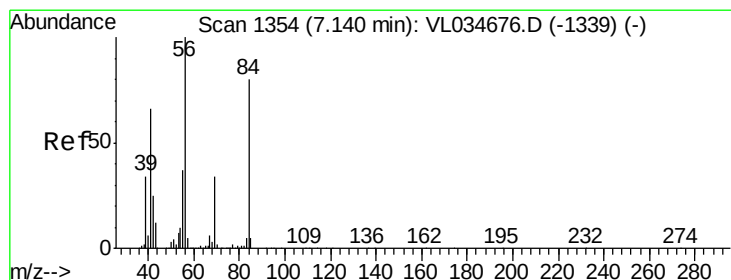
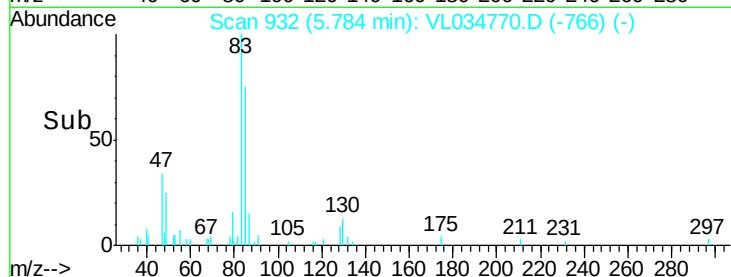
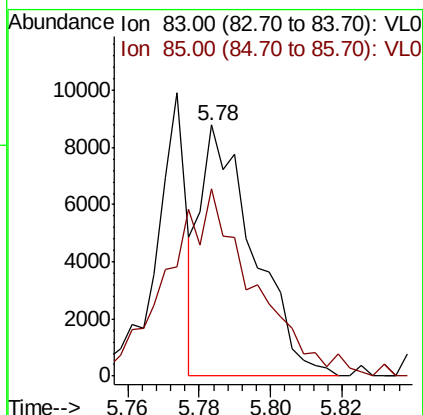
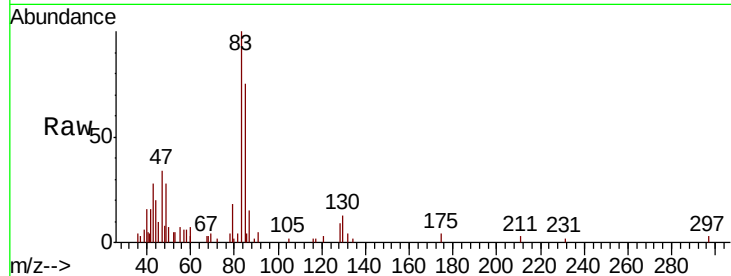




#29
Chloroform
Concen: 0.057 ppbv
RT: 5.78 min Scan# 932
Delta R.T. 0.03 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

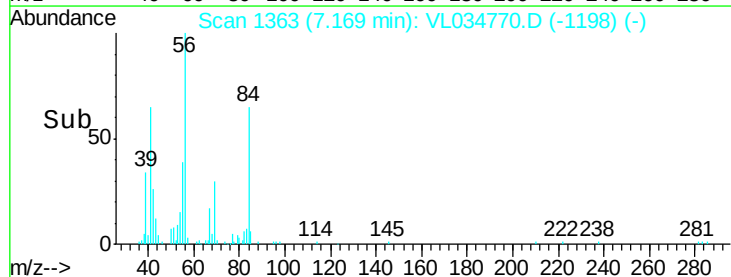
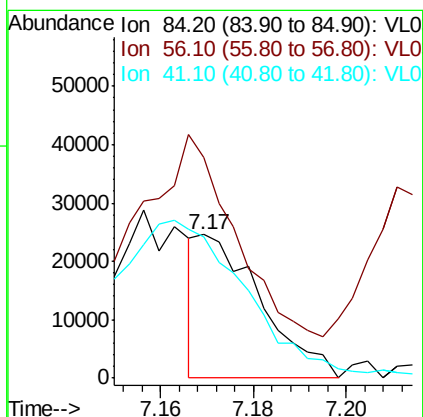
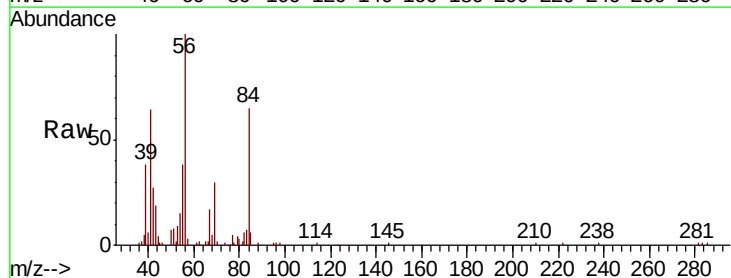
Instrument :
MSVOA_L
ClientSampleId :
IA-1-4

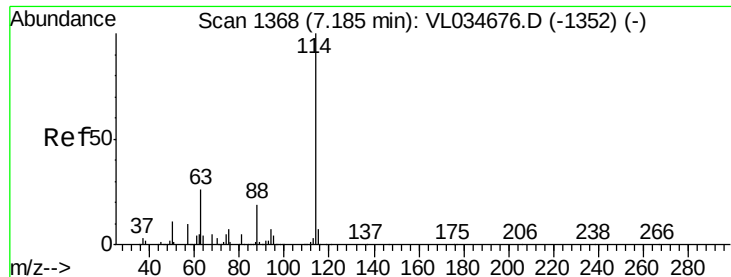
Tot Ion: 83 Resp: 9040
Ion Ratio Lower Upper
83 100
85 65.8 53.9 80.9



#30
Cyclohexane
Concen: 0.300 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. 0.03 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

Tgt Ion: 84 Resp: 23124
Ion Ratio Lower Upper
84 100
56 317.8 113.4 170.2#
41 0.0 68.2 102.4#

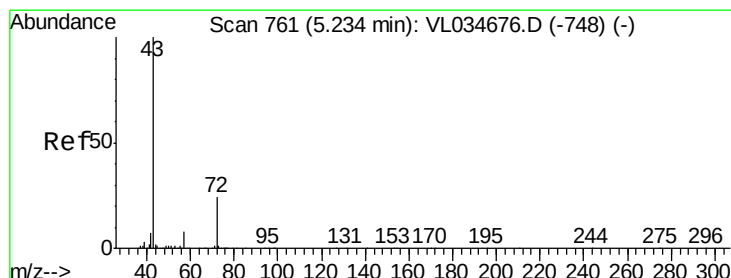
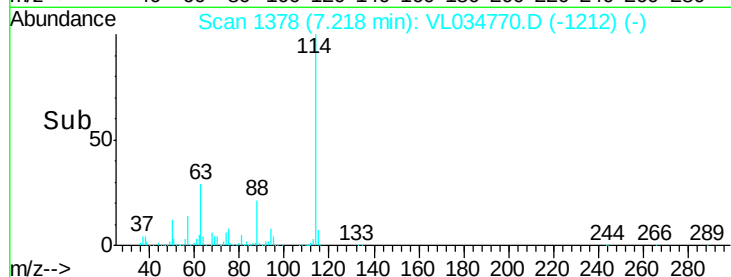
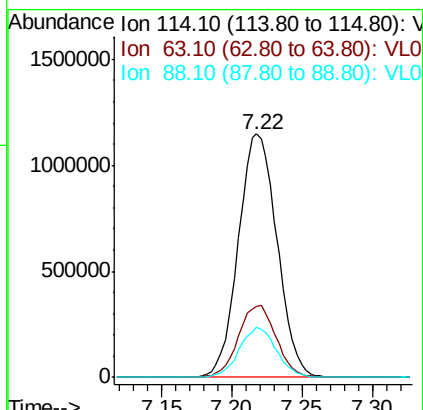
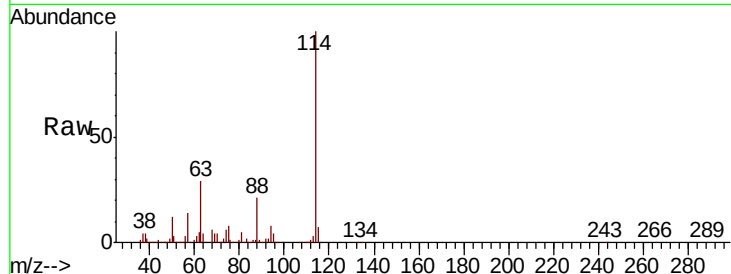




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1378
 Delta R.T. 0.03 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

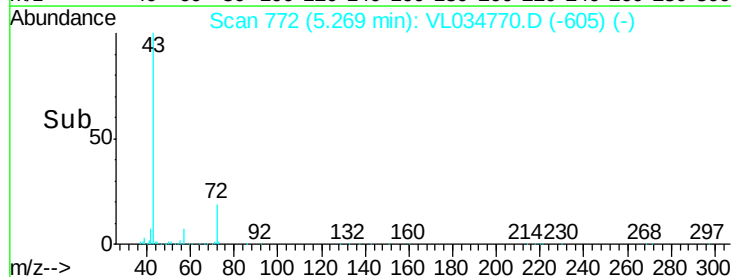
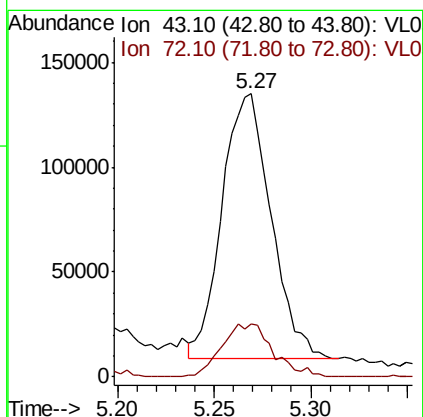
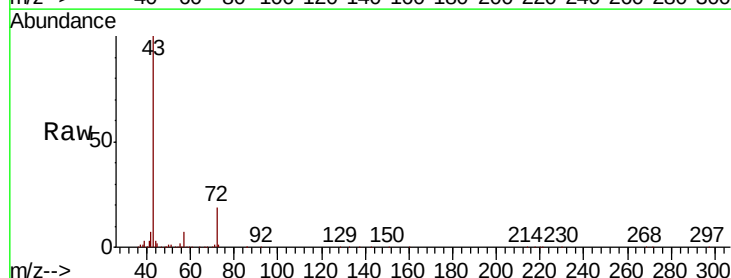
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4

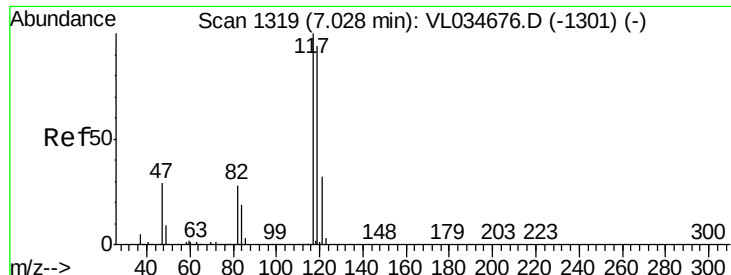
Tot Ion:114 Resp: 2204805
 Ion Ratio Lower Upper
 114 100
 63 29.3 22.9 34.3
 88 19.7 15.8 23.6



#34
 2-Butanone
 Concen: 1.597 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.04 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

Tgt Ion: 43 Resp: 221646
 Ion Ratio Lower Upper
 43 100
 72 21.2 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.030 ppbv

RT: 7.06 min Scan# 1329

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4

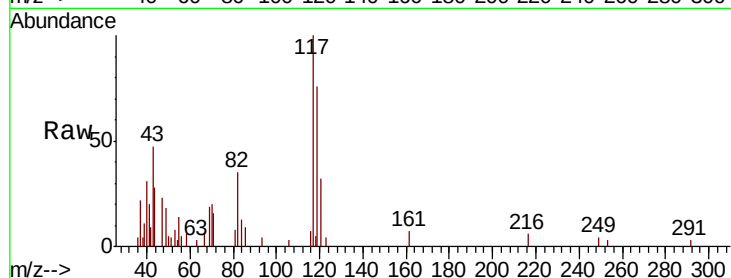
Tot Ion:117 Resp: 4397

Ion Ratio Lower Upper

117 100

119 32.1 75.5 113.3#

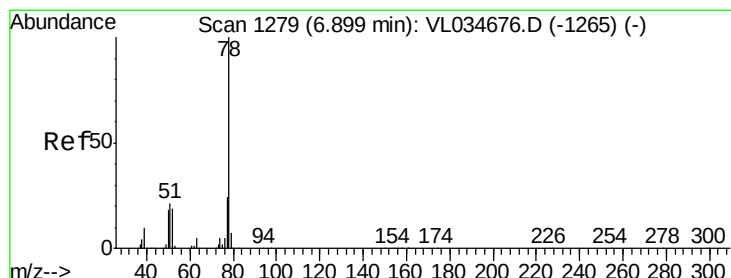
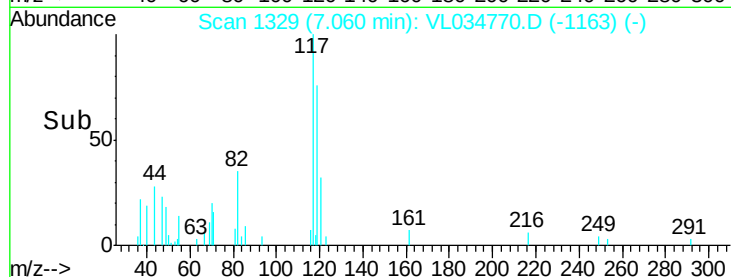
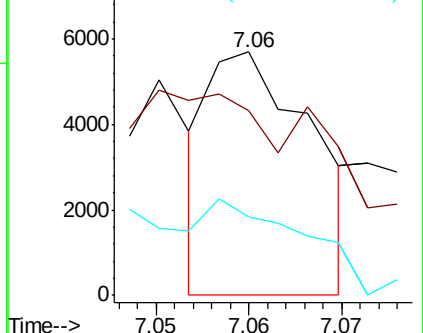
121 22.1 25.4 38.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.427 ppbv

RT: 6.93 min Scan# 1288

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

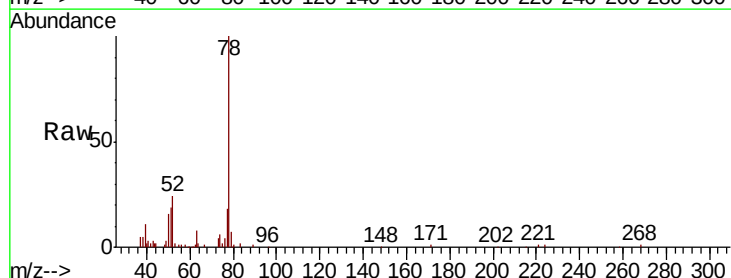
Tgt Ion: 78 Resp: 81348

Ion Ratio Lower Upper

78 100

77 18.5 19.5 29.3#

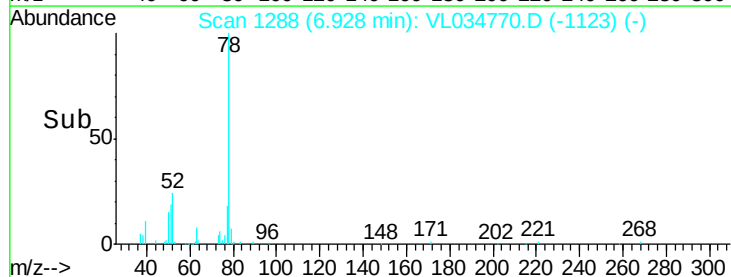
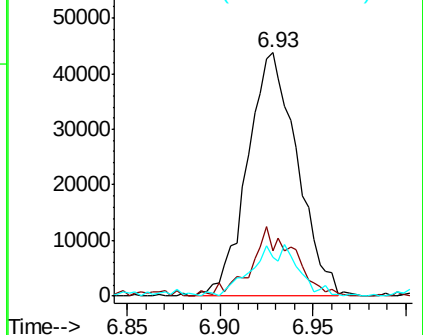
50 14.6 14.6 21.8

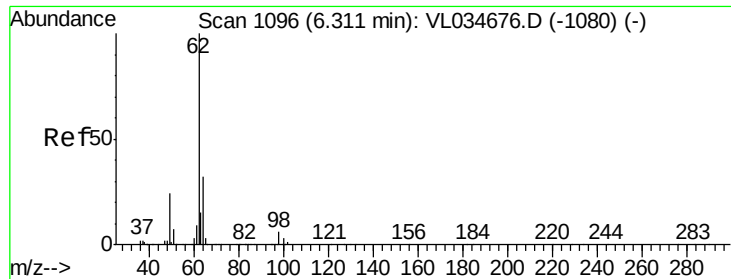


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

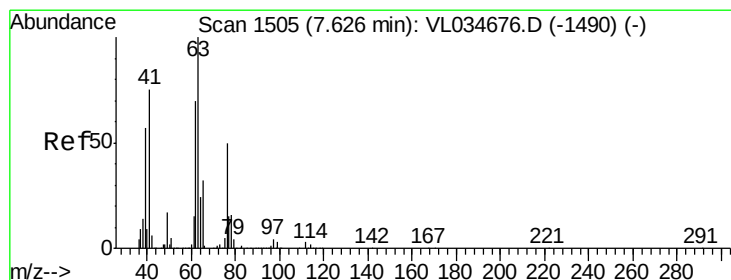
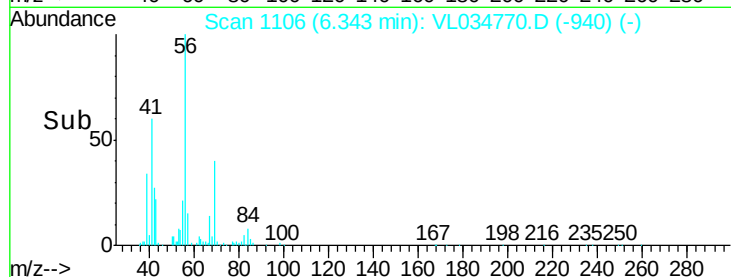
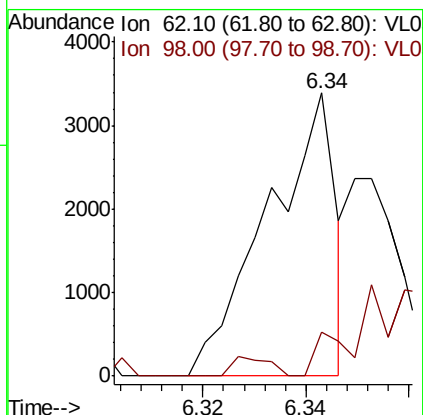
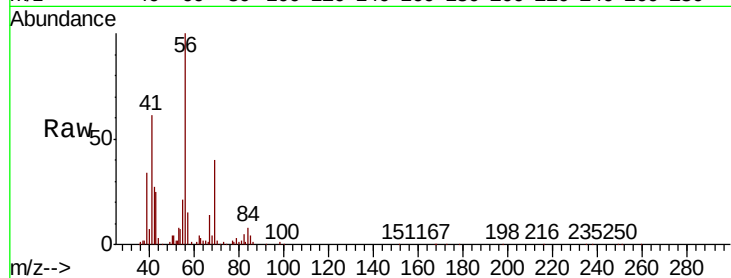




#37
 1,2-Dichloroethane
 Concen: 0.026 ppbv
 RT: 6.34 min Scan# 1106
 Delta R.T. 0.03 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

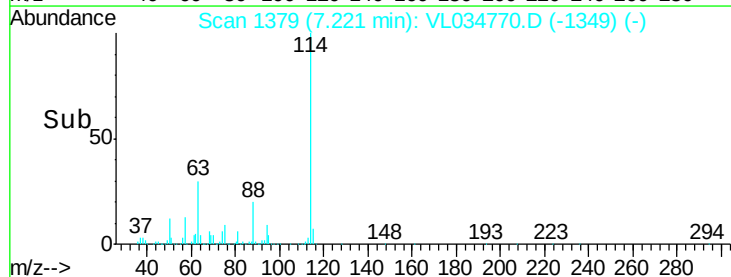
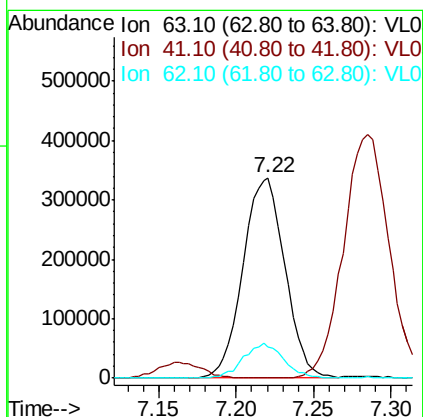
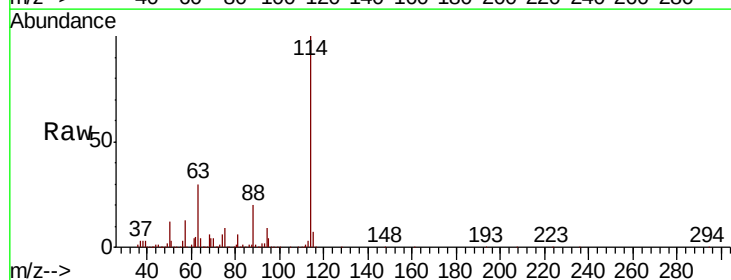
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4

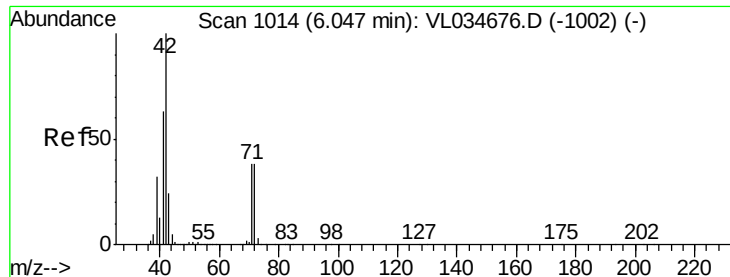
Tot Ion: 62 Resp: 3085
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.7 7.1#



#39
 1,2-Dichloropropane
 Concen: 8.402 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. -0.41 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

Tgt Ion: 63 Resp: 636536
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.2 90.4#
 62 15.7 56.3 84.5#





#41

Tetrahydrofuran

Concen: 0.157 ppbv

RT: 6.33 min Scan# 1103

Delta R.T. 0.29 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4

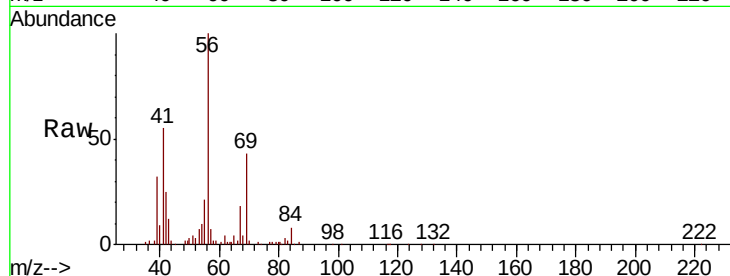
Tot Ion: 42 Resp: 11508

Ion Ratio Lower Upper

42 100

72 1.6 31.7 47.5#

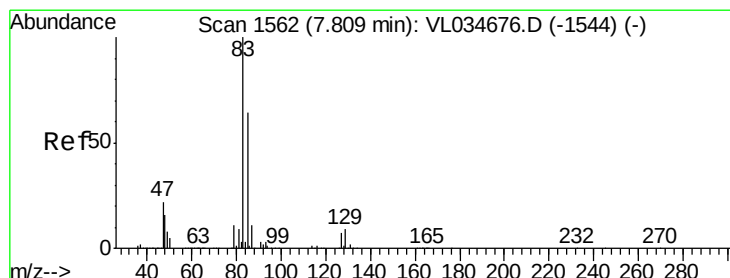
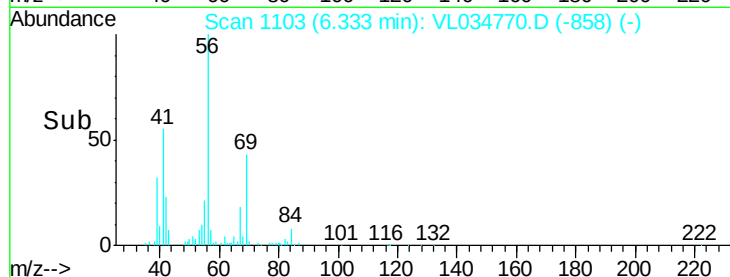
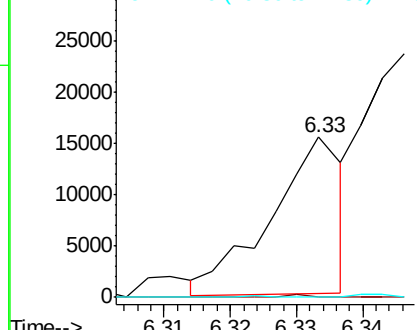
71 13.1 30.7 46.1#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.045 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

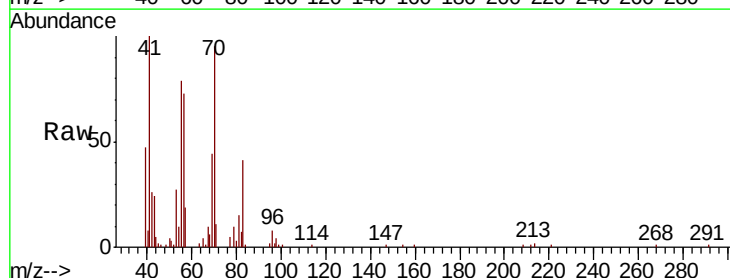
Tgt Ion: 83 Resp: 7127

Ion Ratio Lower Upper

83 100

85 0.0 51.1 76.7#

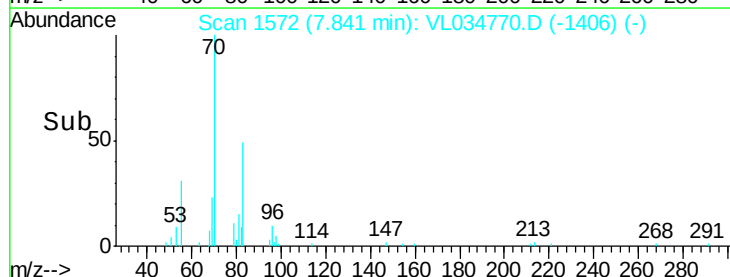
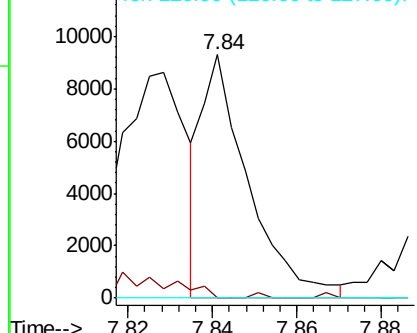
127 0.0 5.8 8.8#

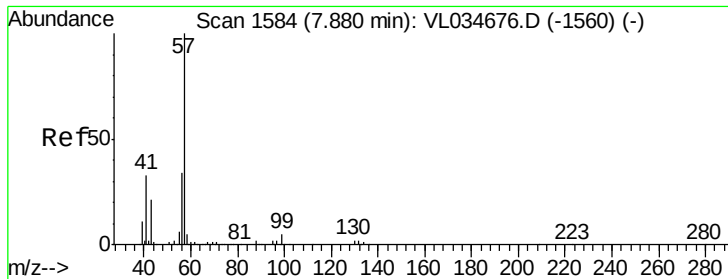


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

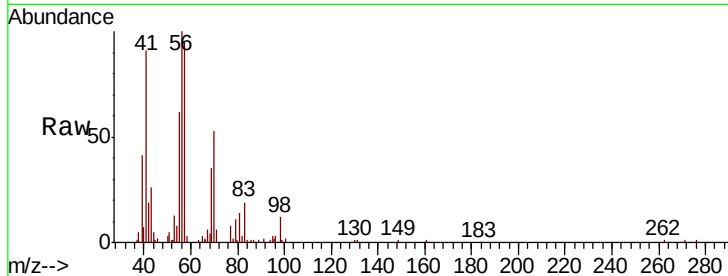




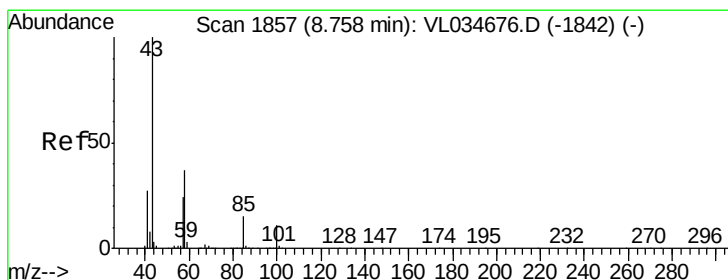
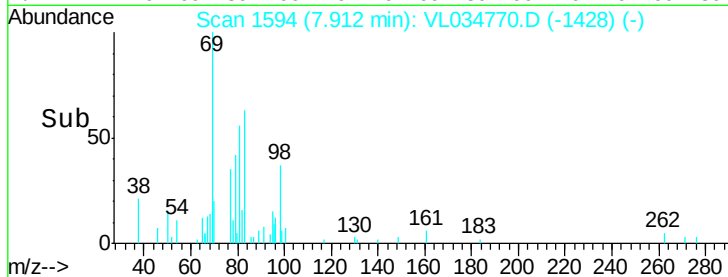
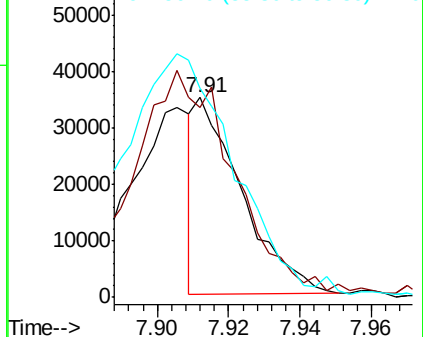
#44
 2,2,4-Trimethylpentane
 Concen: 0.095 ppbv
 RT: 7.91 min Scan# 1594
 Delta R.T. 0.03 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1-4

Tot Ion: 57 Resp: 31736
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.0 39.0#
 56 0.0 25.6 38.4#

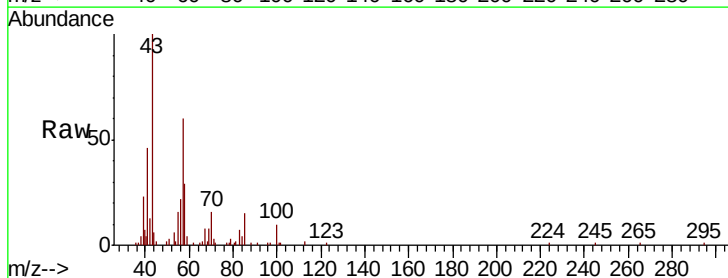


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

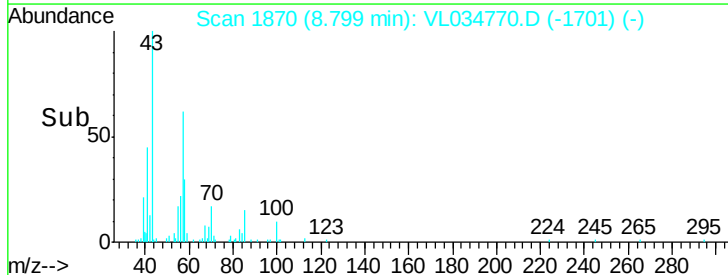
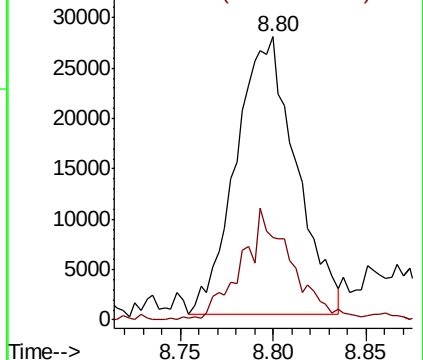


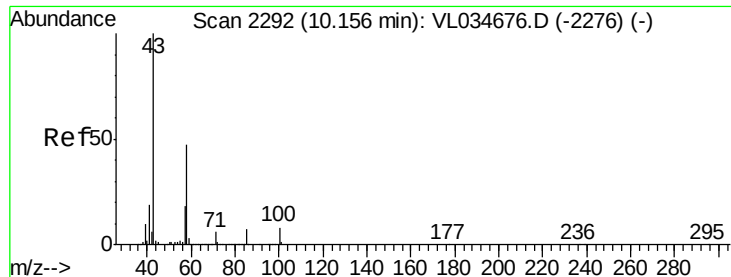
#50
 4-Methyl-2-Pentanone
 Concen: 0.315 ppbv
 RT: 8.80 min Scan# 1870
 Delta R.T. 0.04 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

Tgt Ion: 43 Resp: 61922
 Ion Ratio Lower Upper
 43 100
 58 34.7 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0

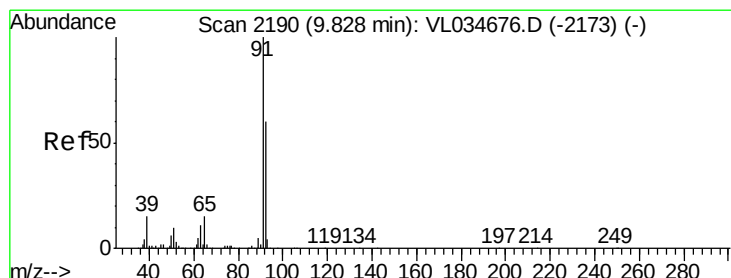
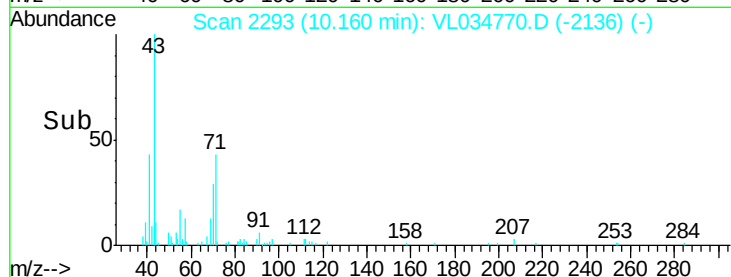
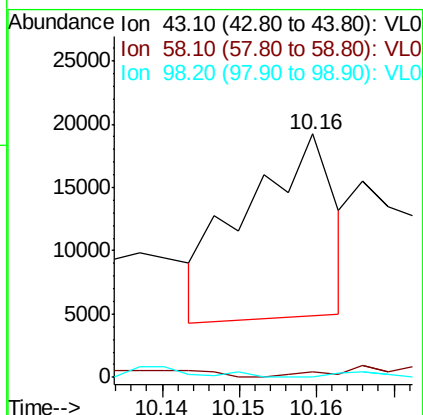
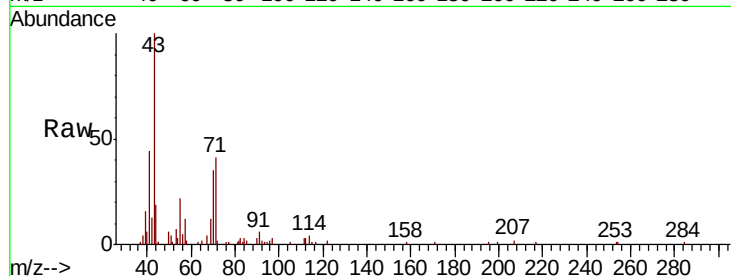




#51
2-Hexanone
Concen: 0.074 ppbv
RT: 10.16 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

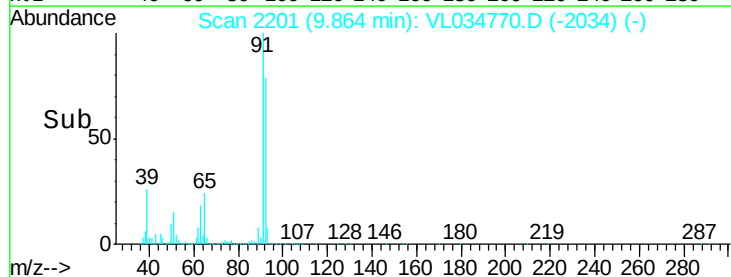
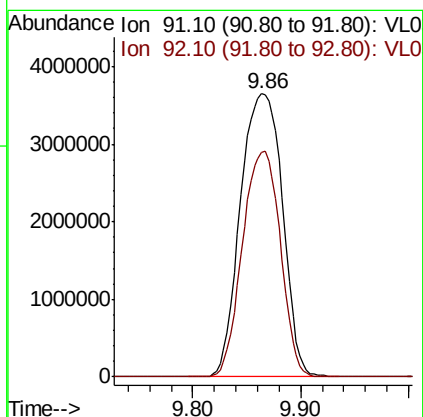
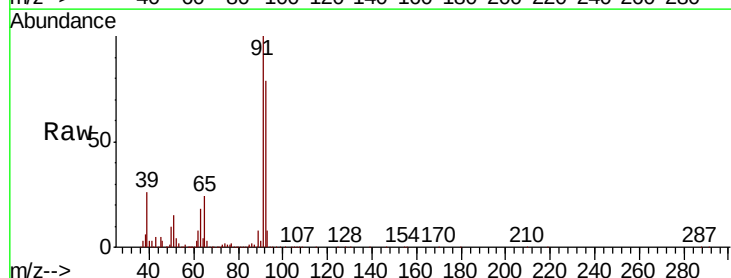
Instrument :
MSVOA_L
ClientSampleId :
IA-1-4

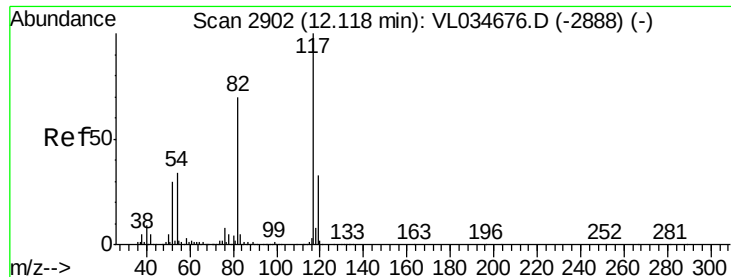
Tot Ion: 43 Resp: 11469
Ion Ratio Lower Upper
43 100
58 33.0 39.4 59.0#
98 3.1 0.2 0.2#



#53
Toluene
Concen: 48.980 ppbv
RT: 9.86 min Scan# 2201
Delta R.T. 0.04 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

Tgt Ion: 91 Resp: 9920269
Ion Ratio Lower Upper
91 100
92 72.1 48.5 72.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4

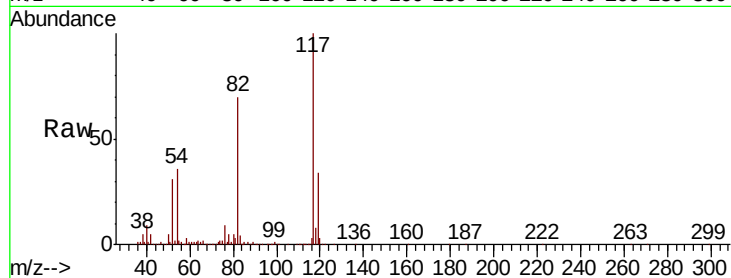
Tot Ion:117 Resp: 2272857

Ion	Ratio	Lower	Upper
117	100		
82	70.8	54.1	81.1
119	33.0	27.6	41.4

117 100

82 70.8 54.1 81.1

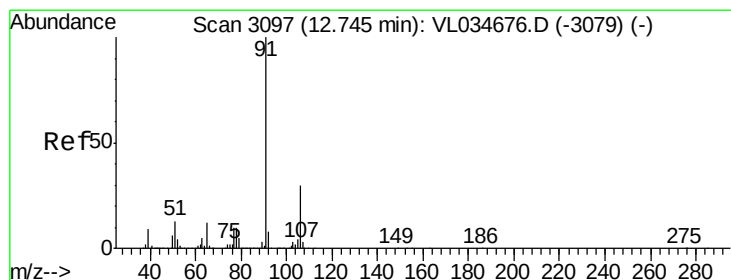
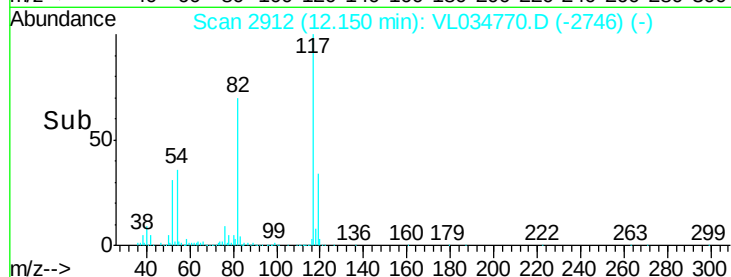
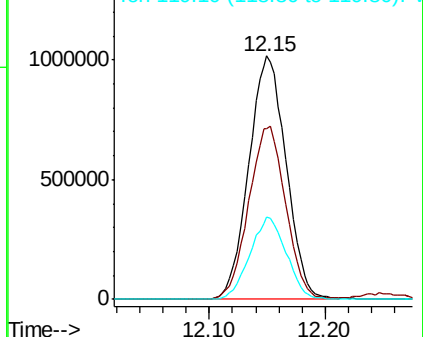
119 33.0 27.6 41.4



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 2.916 ppbv

RT: 12.78 min Scan# 3107

Delta R.T. 0.03 min

Lab File: VL034770.D

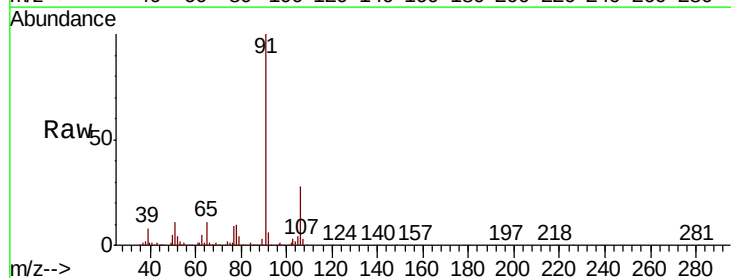
Acq: 3 Mar 2020 19:09

Tgt Ion: 91 Resp: 801939

Ion	Ratio	Lower	Upper
91	100		
106	27.7	24.0	36.0

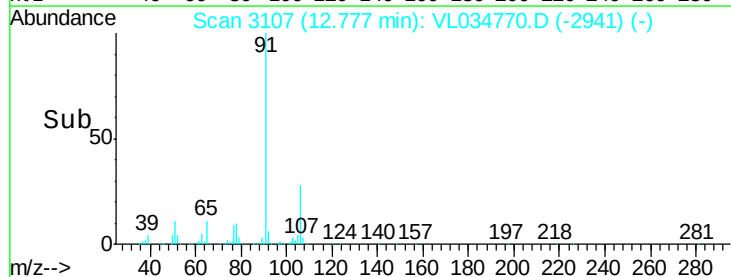
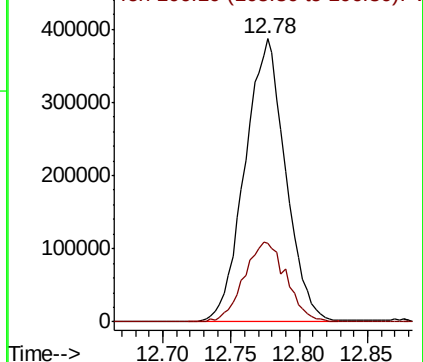
91 100

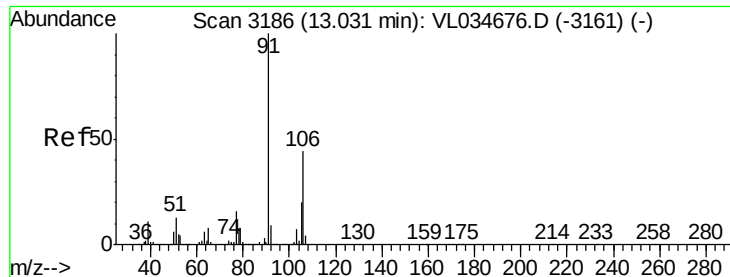
106 27.7 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

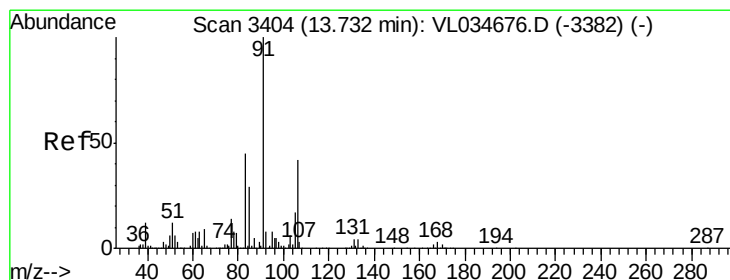
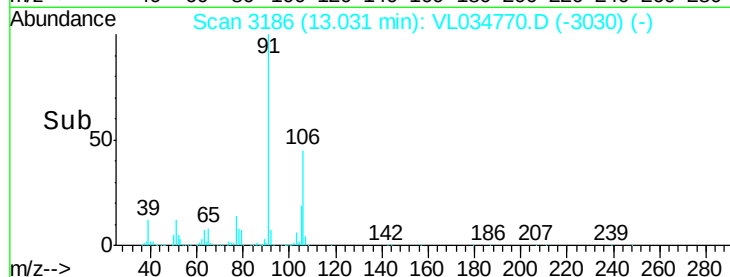
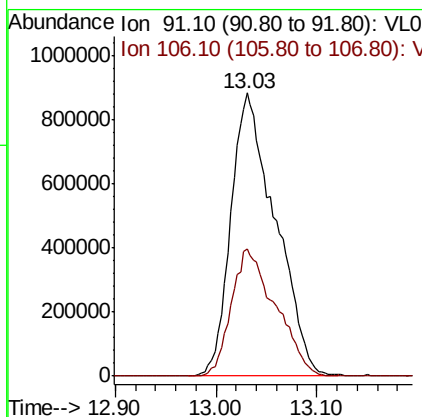
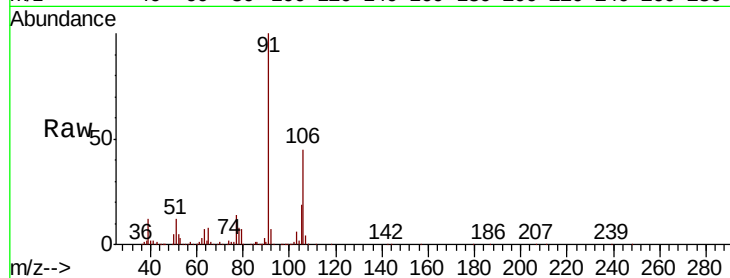




#59
m/p-Xylene
Concen: 11.219 ppbv
RT: 13.03 min Scan# 3186
Delta R.T. 0.00 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

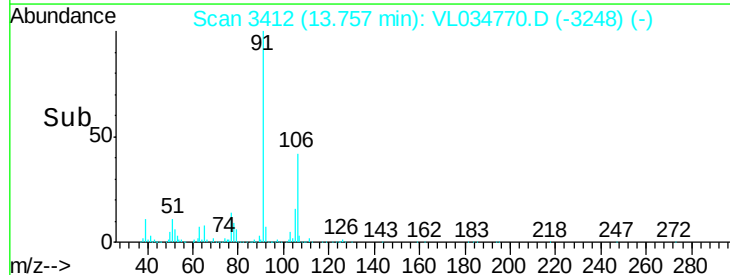
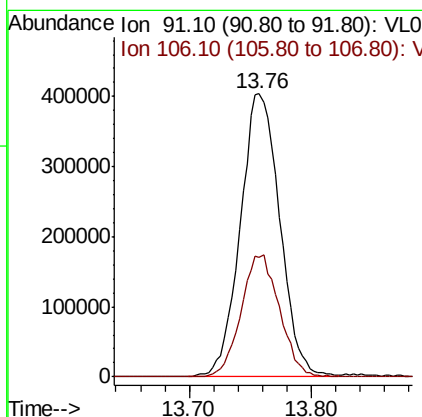
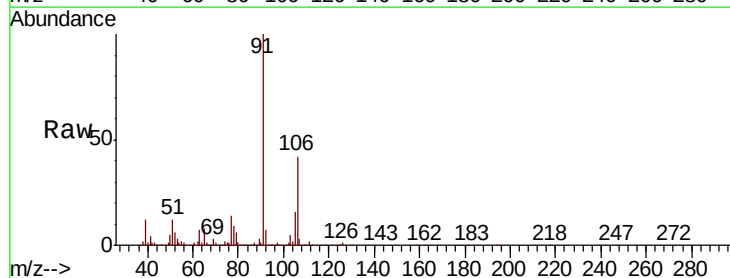
Instrument :
MSVOA_L
ClientSampled :
IA-1-4

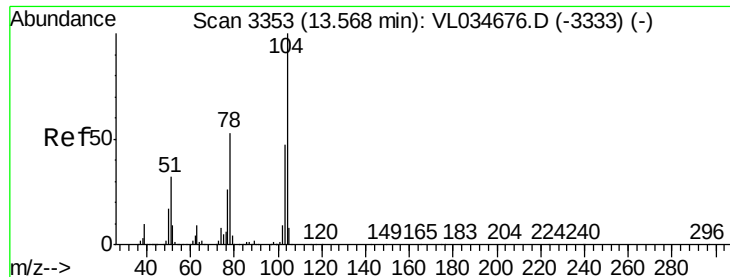
Tot Ion: 91 Resp: 2690683
Ion Ratio Lower Upper
91 100
106 44.9 35.6 53.4



#60
o-Xylene
Concen: 3.758 ppbv
RT: 13.76 min Scan# 3412
Delta R.T. 0.03 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

Tgt Ion: 91 Resp: 894414
Ion Ratio Lower Upper
91 100
106 42.3 21.9 65.5





#61

Stvrene

Concen: 0.074 ppbv

RT: 13.61 min Scan# 3365

Delta R.T. 0.04 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4

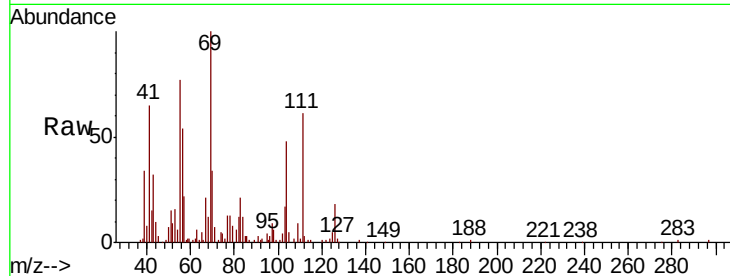
Tot Ion:104 Resp: 11382

Ion Ratio Lower Upper

104 100

78 0.0 44.2 66.4#

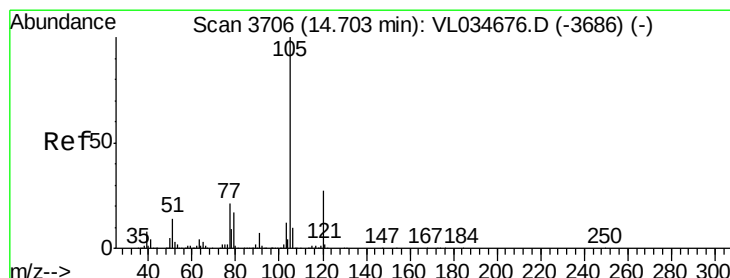
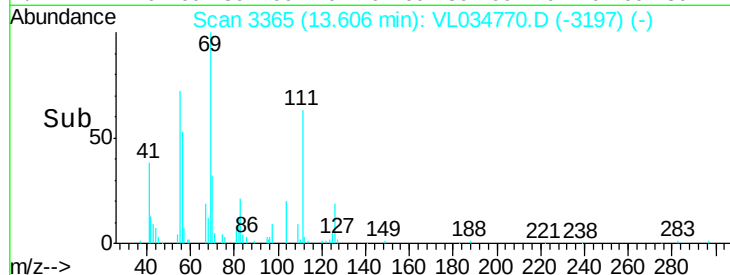
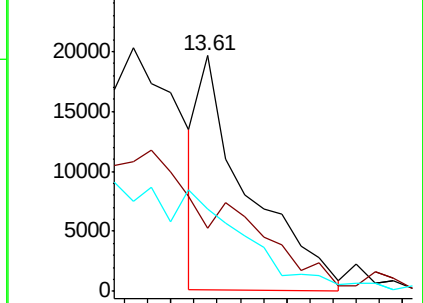
103 0.0 37.4 56.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.257 ppbv

RT: 14.74 min Scan# 3718

Delta R.T. 0.04 min

Lab File: VL034770.D

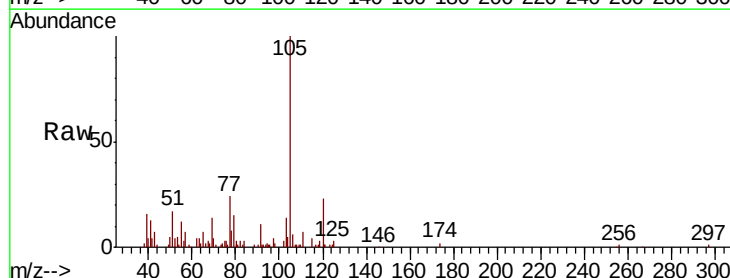
Acq: 3 Mar 2020 19:09

Tgt Ion:105 Resp: 89217

Ion Ratio Lower Upper

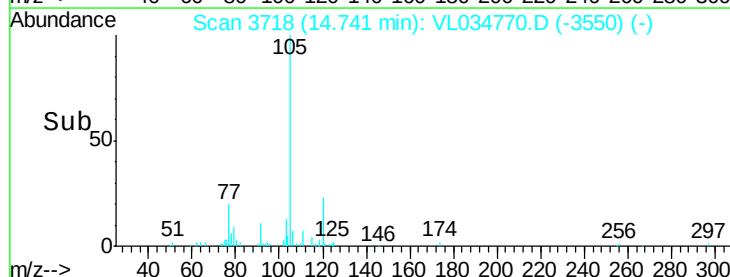
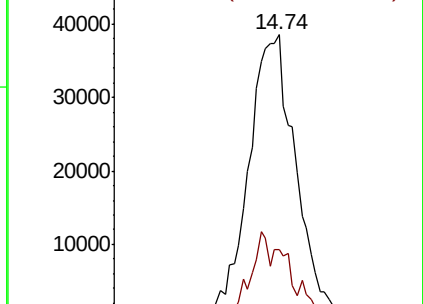
105 100

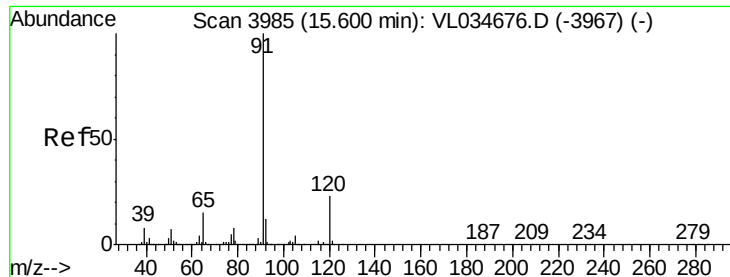
120 25.9 20.2 30.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.520 ppbv

RT: 15.64 min Scan# 3997

Delta R.T. 0.04 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

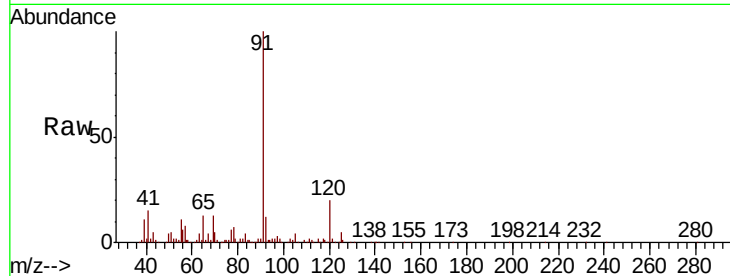
IA-1-4

Tot Ion:120 Resp: 46511

Ion Ratio Lower Upper

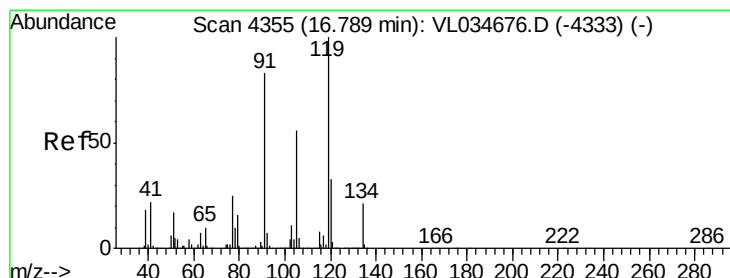
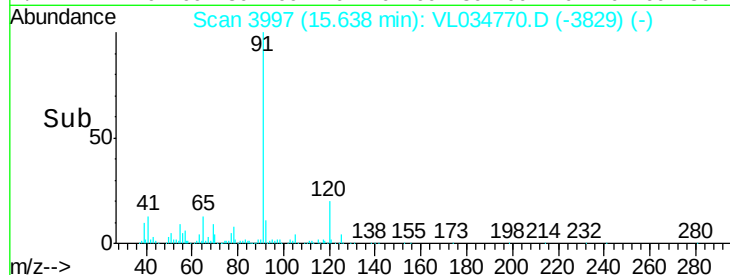
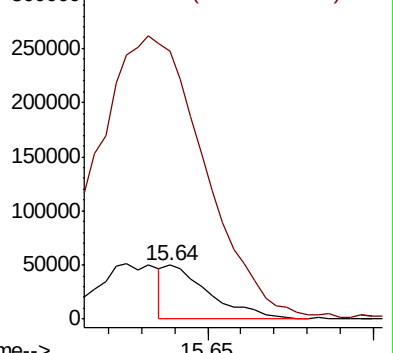
120 100

91 1288.6 369.8 554.8#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.646 ppbv

RT: 16.83 min Scan# 4369

Delta R.T. 0.05 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

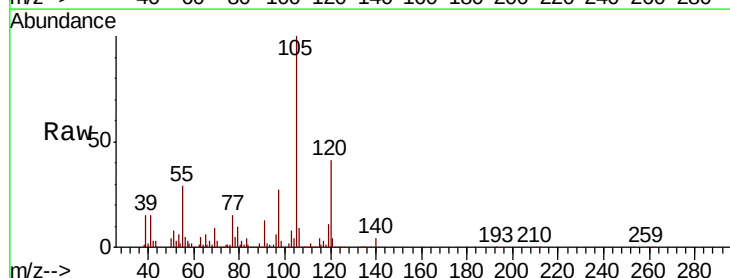
Tgt Ion:119 Resp: 193568

Ion Ratio Lower Upper

119 100

91 119.2 69.1 103.7#

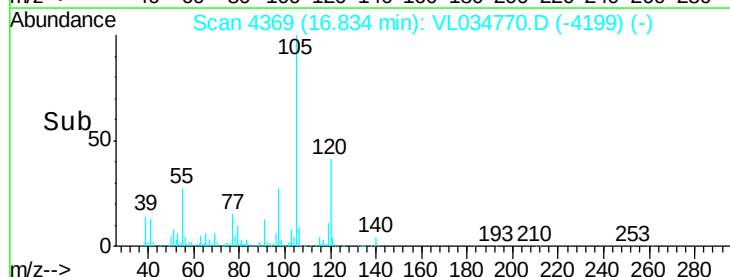
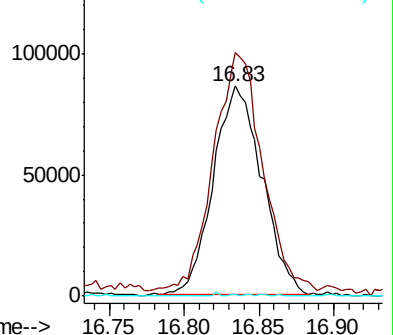
134 0.8 15.8 23.8#

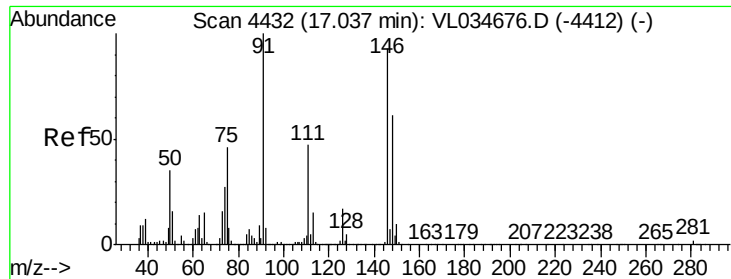


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

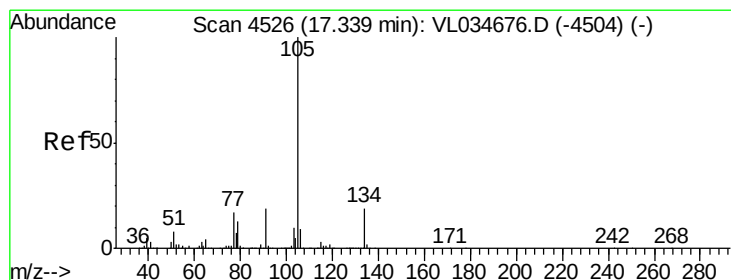
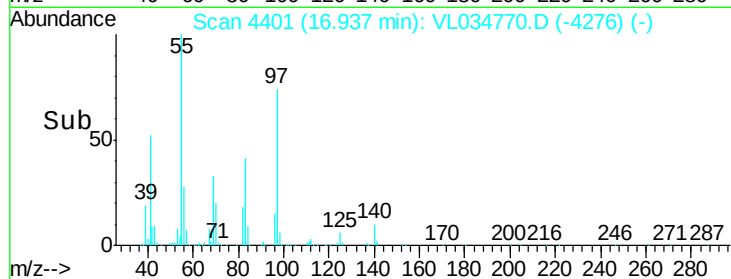
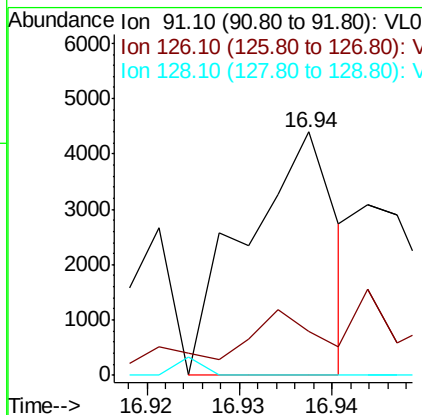
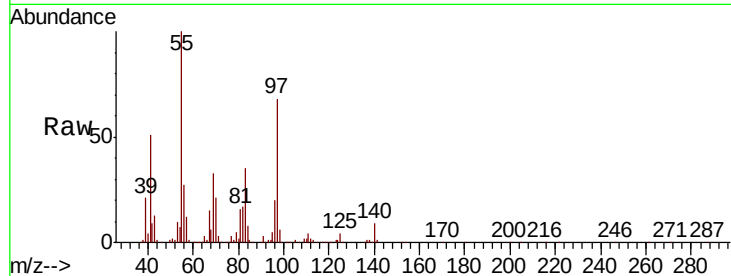




#66
Benzyl Chloride
Concen: 0.026 ppbv
RT: 16.94 min Scan# 4401
Delta R.T. -0.10 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

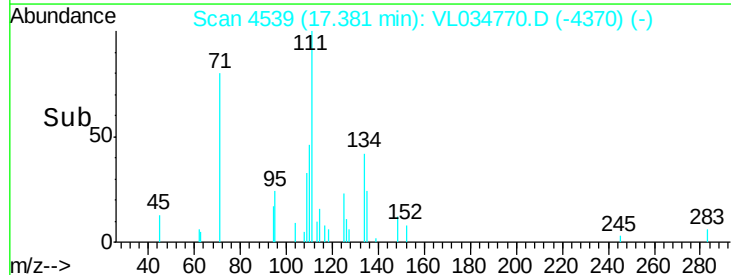
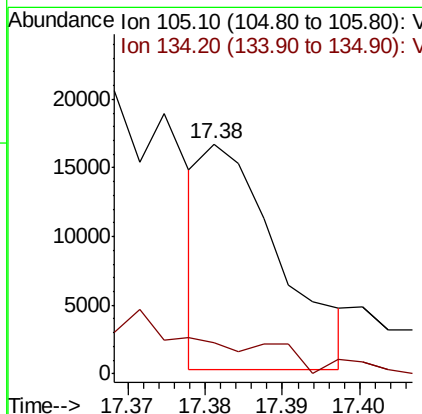
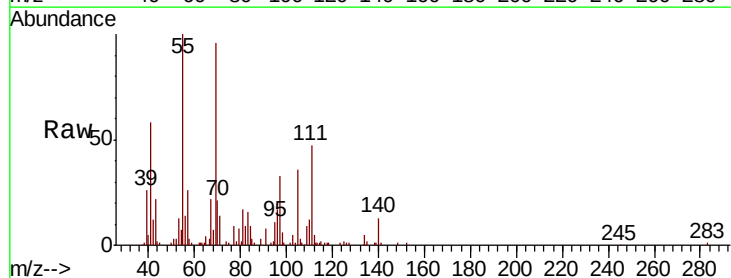
Instrument :
MSVOA_L
ClientSampled :
IA-1-4

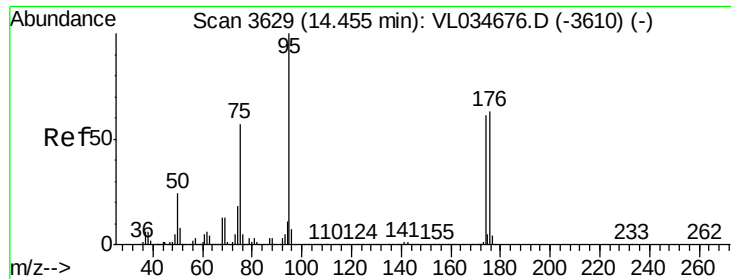
Tot Ion: 91 Resp: 2958
Ion Ratio Lower Upper
91 100
126 124.5 13.5 20.3#
128 2.1 4.2 6.4#



#67
sec-Butylbenzene
Concen: 0.026 ppbv
RT: 17.38 min Scan# 4539
Delta R.T. 0.04 min
Lab File: VL034770.D
Acq: 3 Mar 2020 19:09

Tgt Ion: 105 Resp: 11214
Ion Ratio Lower Upper
105 100
134 0.0 14.8 22.2#

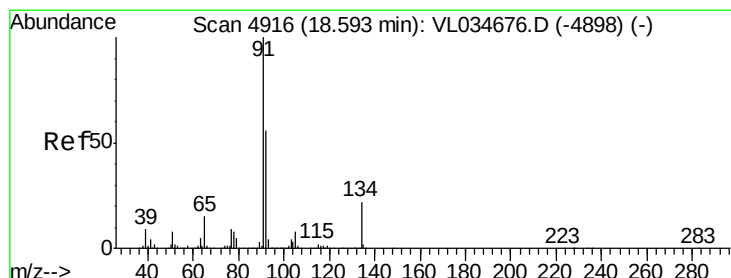
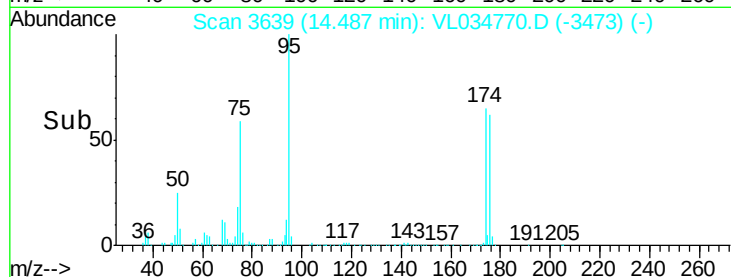
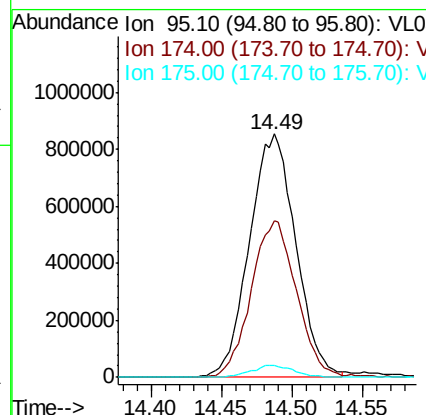
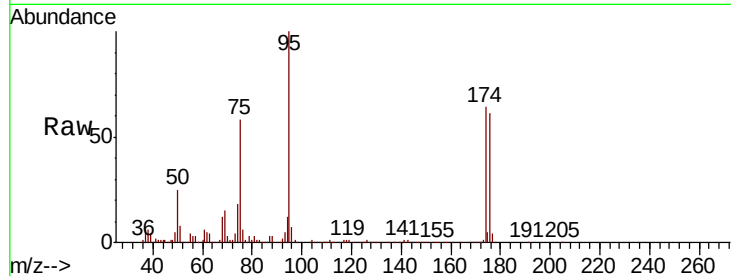




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.489 ppbv
 RT: 14.49 min Scan# 3639
 Delta R.T. 0.03 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

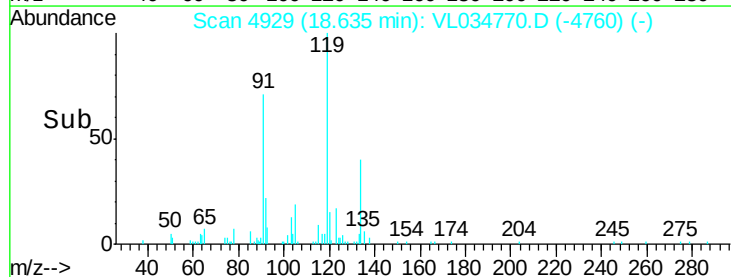
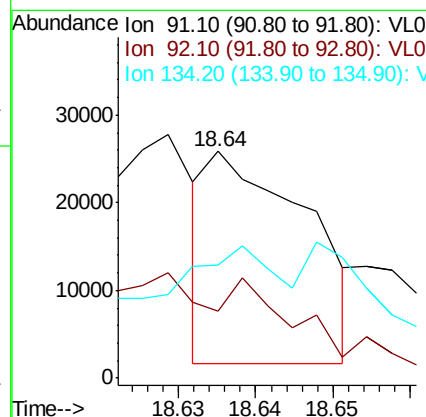
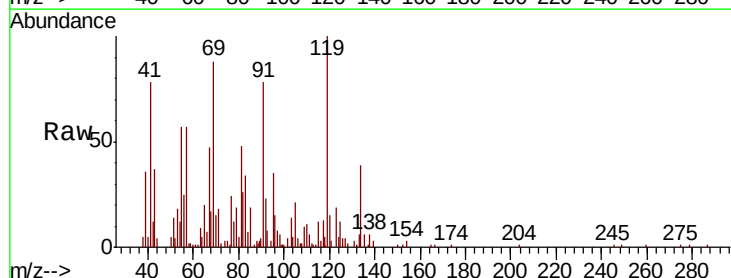
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4

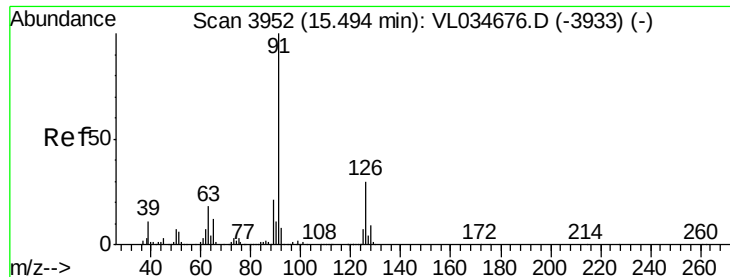
Tot Ion: 95 Resp: 1954879
 Ion Ratio Lower Upper
 95 100
 174 63.7 50.7 76.1
 175 4.6 3.9 5.9



#70
 n-Butylbenzene
 Concen: 0.056 ppbv
 RT: 18.64 min Scan# 4929
 Delta R.T. 0.04 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

Tgt Ion: 91 Resp: 21543
 Ion Ratio Lower Upper
 91 100
 92 0.0 43.8 65.6#
 134 0.0 17.6 26.4#

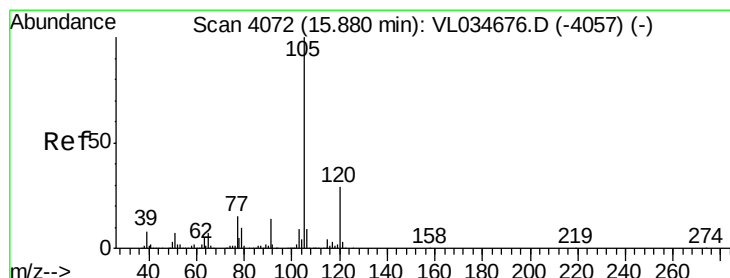
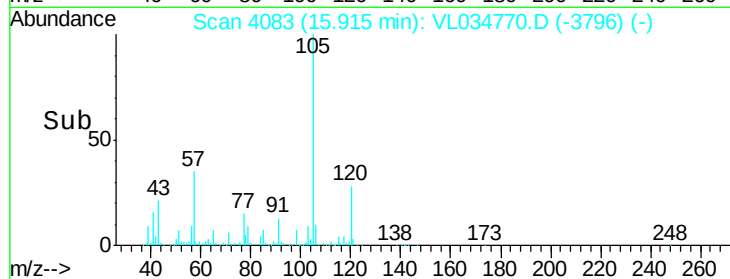
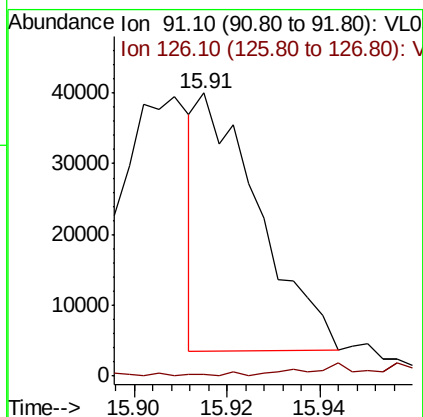
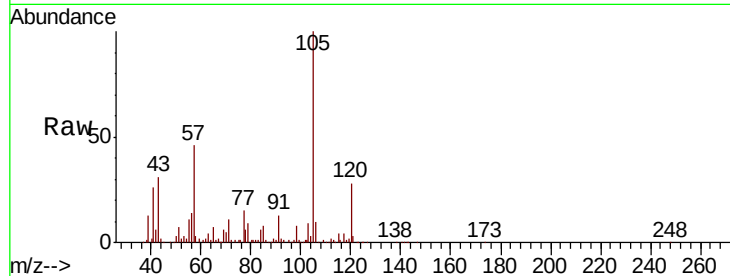




#71
 2-Chlorotoluene
 Concen: 0.124 ppbv
 RT: 15.91 min Scan# 4083
 Delta R.T. 0.42 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

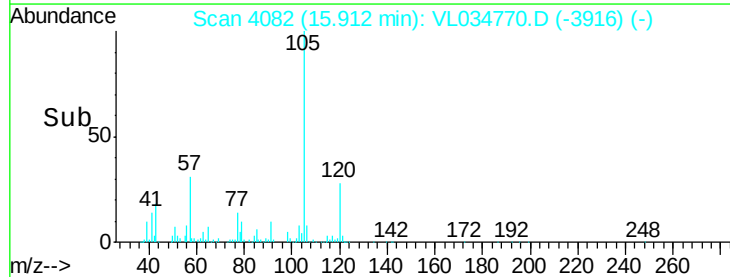
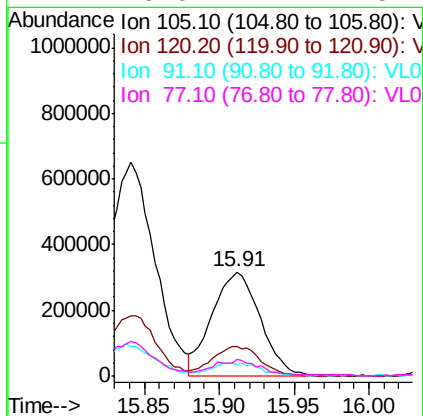
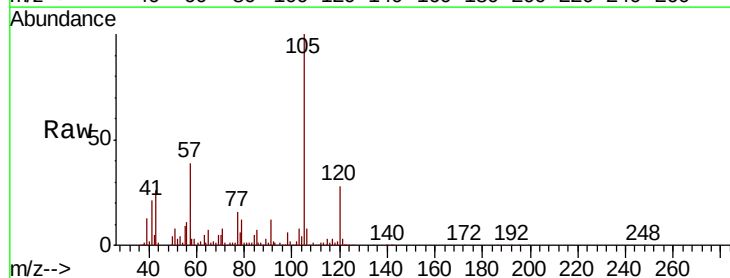
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1-4

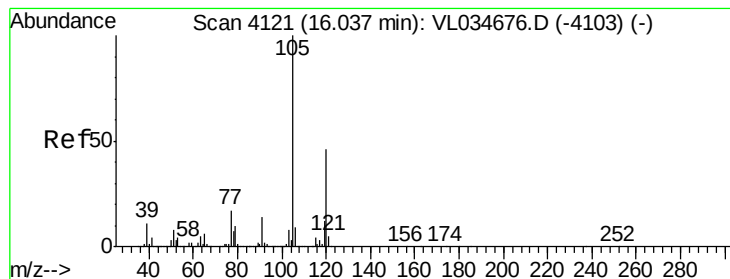
Tot Ion: 91 Resp: 33287
 Ion Ratio Lower Upper
 91 100
 126 16.7 11.8 47.2



#72
 4-Ethyltoluene
 Concen: 2.655 ppbv
 RT: 15.91 min Scan# 4082
 Delta R.T. 0.03 min
 Lab File: VL034770.D
 Acq: 3 Mar 2020 19:09

Tgt Ion: 105 Resp: 703198
 Ion Ratio Lower Upper
 105 100
 120 28.1 23.7 35.5
 91 12.9 10.9 16.3
 77 15.0 12.2 18.2





#73

1,3,5-Trimethylbenzene

Concen: 2.445 ppbv

RT: 16.07 min Scan# 4130

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

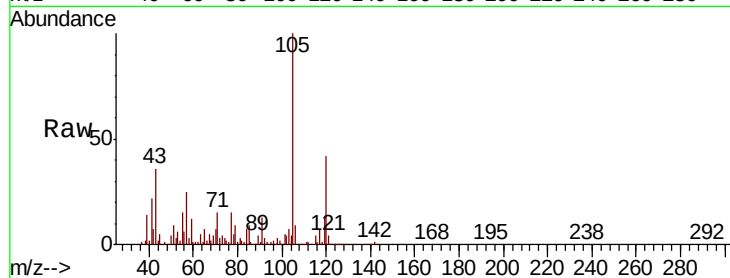
IA-1-4

Tot Ion:105 Resp: 622960

Ion Ratio Lower Upper

105 100

120 42.5 37.1 55.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.07

250000

200000

150000

100000

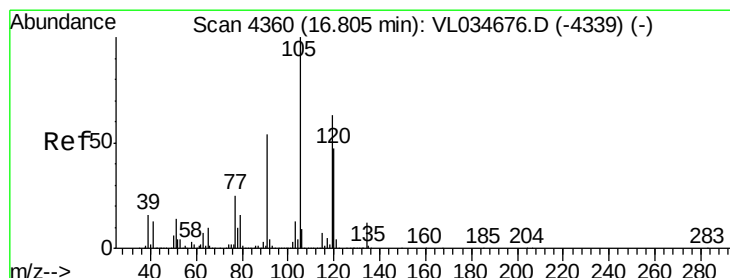
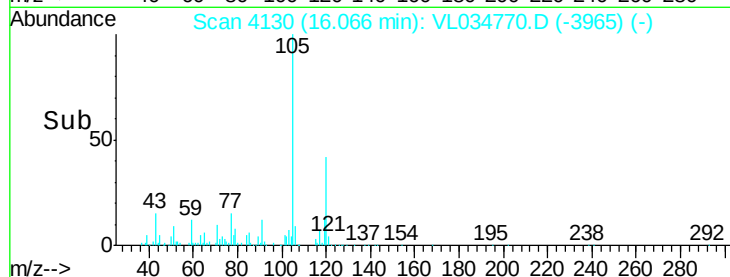
50000

0

Time-->

16.00

16.10



#74

1,2,4-Trimethylbenzene

Concen: 6.302 ppbv

RT: 16.83 min Scan# 4369

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Tgt Ion:105 Resp: 1773455

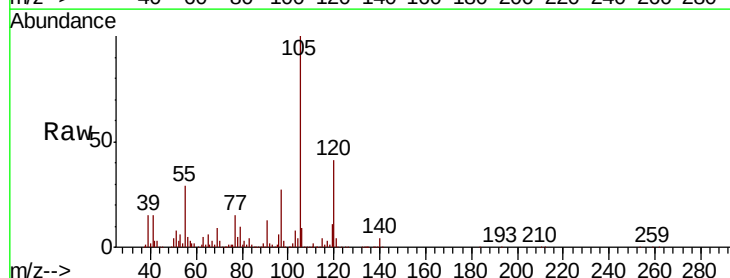
Ion Ratio Lower Upper

105 100

120 40.5 37.9 56.9

91 12.7 43.9 65.9#

77 14.6 20.3 30.5#



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

1200000

1000000

800000

600000

400000

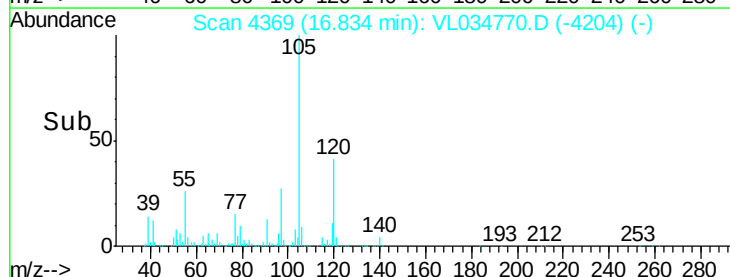
200000

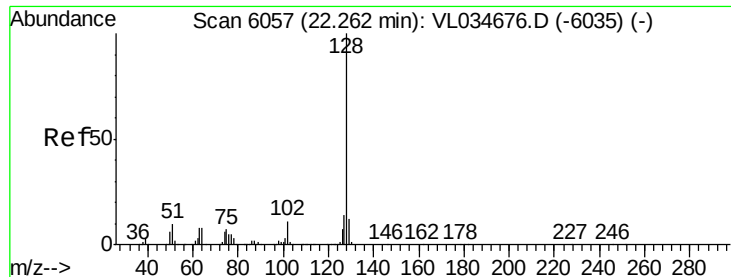
0

Time-->

16.80

16.90





#79

Naphthalene

Concen: 0.067 ppbv

RT: 22.32 min Scan# 6076

Delta R.T. 0.06 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

IA-1-4

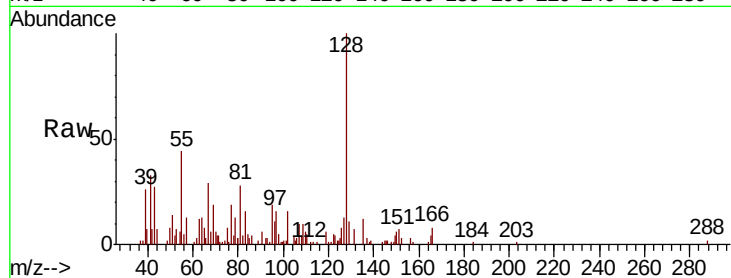
Tot Ion:128 Resp: 16714

Ion Ratio Lower Upper

128 100

127 13.1 11.0 16.6

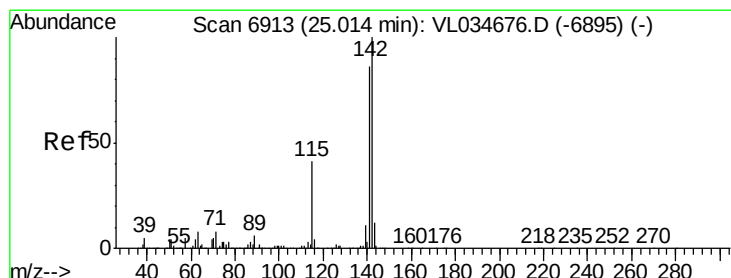
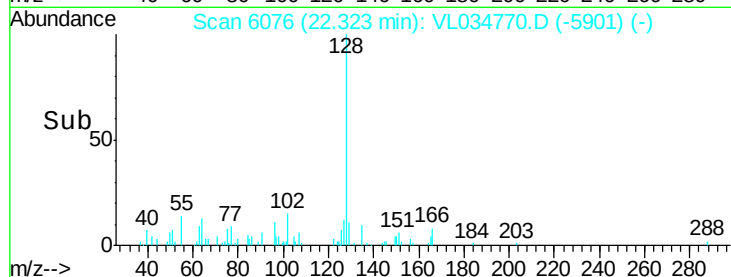
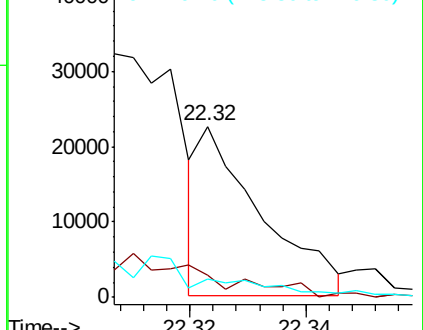
129 9.8 9.4 14.2



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.163 ppbv

RT: 25.04 min Scan# 6921

Delta R.T. 0.03 min

Lab File: VL034770.D

Acq: 3 Mar 2020 19:09

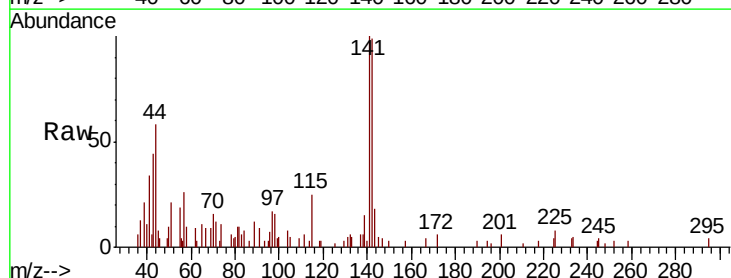
Tgt Ion:142 Resp: 12459

Ion Ratio Lower Upper

142 100

141 92.2 66.5 99.7

115 57.9 30.6 46.0#



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

