

Data File : VL032369.D
Acq On : 16 Aug 2018 3:13
Operator : SY/AP
Sample : J4457-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVI

Quant Time: Aug 16 05:51:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1302141	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.38	114	3130492	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.33	117	3368595	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	2814819	10.95	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	16901	Below Cal		90
3) Chlorodifluoromethane	3.38	51	5488516	45.500	ppbv #	61
4) Chloromethane	3.21	50	1694231	23.600	ppbv	100
5) Vinyl Chloride	3.33	62	16236	0.237	ppbv	98
6) Bromomethane	3.56	94	2250	0.061	ppbv	86
7) Chloroethane	3.65	64	2443279	101.816	ppbv	96
9) Propene	3.43	41	12566079	243.415	ppbv	98
10) Heptane	8.36	43	25785343	165.834	ppbv	90
11) Trichlorofluoromethane	4.06	101	195030	1.339	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.62	101	724671	7.389	ppbv	97
13) Ethanol	3.70	45	3904257	294.463	ppbv	96
15) Acetone	3.95	43	18402627	148.750	ppbv #	57
16) 1,3-Butadiene	3.43	39	9902439	193.867	ppbv #	47
17) tert-Butyl alcohol	4.43	59	8746809	421.353	ppbv #	95
18) 1,1-Dichloroethene	4.41	96	13061	0.286	ppbv #	72
19) Isopropyl Alcohol	4.08	45	3826363	45.930	ppbv #	78
20) Methylene Chloride	4.47	84	333790	7.144	ppbv #	91
21) Allyl Chloride	4.53	41	545046	6.980	ppbv #	23
23) Vinyl Acetate	5.21	43	4975139	23.288	ppbv #	1
24) 1,1-Dichloroethane	5.21	63	107024	0.694	ppbv #	89
25) Ethyl Acetate	5.87	43	21528806	81.201	ppbv #	78
26) Hexane	5.87	57	26047722	220.377	ppbv #	41
27) Carbon Disulfide	4.68	76	8346058	75.653	ppbv	96
28) Methyl tert-Butyl Ether	5.18	73	9961	0.064	ppbv #	51
29) Chloroform	5.92	83	2777785	16.036	ppbv	96
30) Cyclohexane	7.34	84	8623950	95.785	ppbv #	53
32) 1,1,1-Trichloroethane	6.69	97	25084	0.149	ppbv #	62
34) 2-Butanone	5.39	43	13141045	61.678	ppbv	97
35) Carbon Tetrachloride	7.23	117	12966	0.070	ppbv	96
36) Benzene	7.09	78	15164523	57.137	ppbv	94
37) 1,2-Dichloroethane	6.50	62	27575	0.171	ppbv #	1
39) 1,2-Dichloropropane	7.75	63	152907	1.379	ppbv #	1
40) 1,4-Dioxane	8.05	88	1265	0.038	ppbv #	1
41) Tetrahydrofuran	6.22	42	4766578	41.673	ppbv #	81
42) Bromodichloromethane	8.06	83	1215370	5.765	ppbv #	65
43) Methyl Methacrylate	8.21	69	201484	1.905	ppbv #	1
44) 2,2,4-Trimethylpentane	8.06	57	1333459	2.786	ppbv #	1
47) 1,1,2-Trichloroethane	9.79	97	41585	0.341	ppbv #	56
50) 4-Methyl-2-Pentanone	8.96	43	4567755	14.845	ppbv #	79
51) 2-Hexanone	10.35	43	9199143	42.573	ppbv #	61
52) Tetrachloroethene	11.47	164	2343500	29.940	ppbv	96

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
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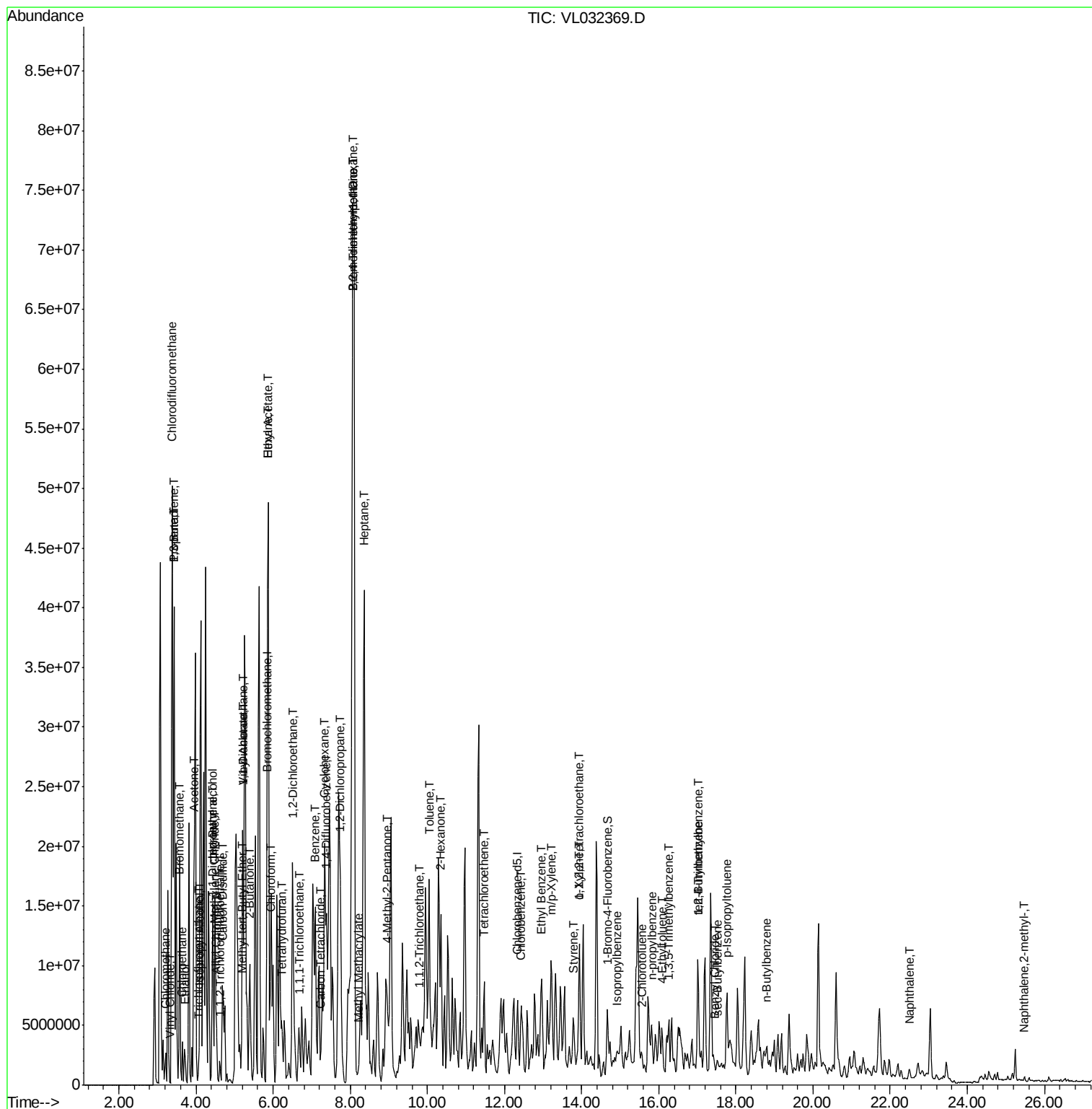
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Toluene	10.04	91	14523776	49.921	ppbv	96
57) Chlorobenzene	12.43	112	547082	2.157	ppbv #	33
58) Ethyl Benzene	12.95	91	3195557	7.885	ppbv	100
59) m/p-Xylene	13.21	91	6157728	17.886	ppbv	99
60) o-Xylene	13.94	91	2584239	7.637	ppbv	97
61) Styrene	13.77	104	1114805	4.714	ppbv	98
62) Isopropylbenzene	14.91	105	487788	1.013	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	148591	0.522	ppbv #	24
64) n-propylbenzene	15.81	120	263160	2.111	ppbv #	52
65) tert-Butylbenzene	17.01	119	364328	0.885	ppbv #	62
66) Benzyl Chloride	17.45	91	178944	0.734	ppbv #	83
67) sec-Butylbenzene	17.54	105	494762	0.809	ppbv	99
69) p-Isopropyltoluene	17.78	119	641869	1.371	ppbv	97
70) n-Butylbenzene	18.80	91	825679	1.608	ppbv #	52
71) 2-Chlorotoluene	15.56	91	117827	0.316	ppbv	81
72) 4-Ethyltoluene	16.09	105	1160524	3.075	ppbv	99
73) 1,3,5-Trimethylbenzene	16.24	105	1059005	2.917	ppbv	98
74) 1,2,4-Trimethylbenzene	17.01	105	3032603	7.851	ppbv #	72
79) Naphthalene	22.50	128	734582	2.294	ppbv	99
80) Naphthalene,2-methyl-	25.48	142	128783	1.671	ppbv	97

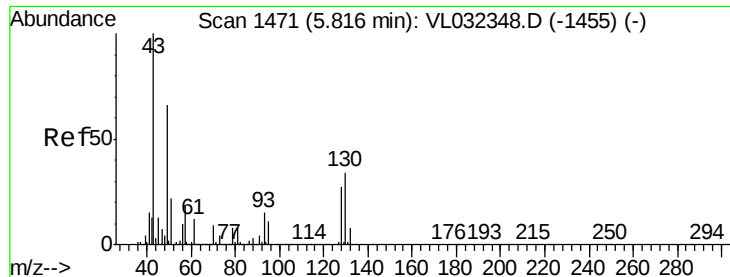
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1475

Delta R.T. 0.01 min

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ClientSampleId :

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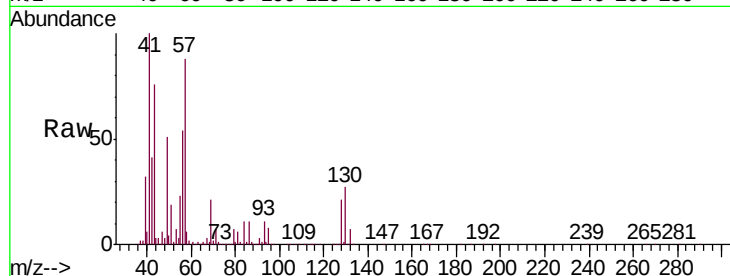
Tgt Ion: 49 Resp: 1302141

Ion Ratio Lower Upper

49 100

128 41.7 20.5 61.6

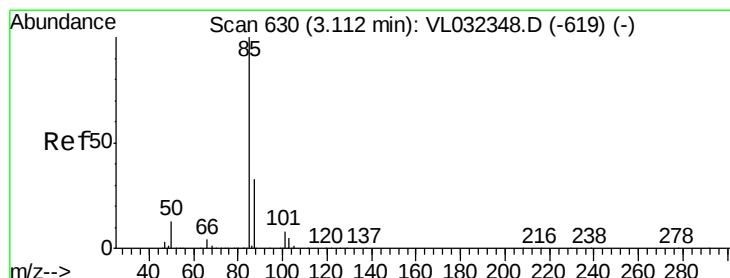
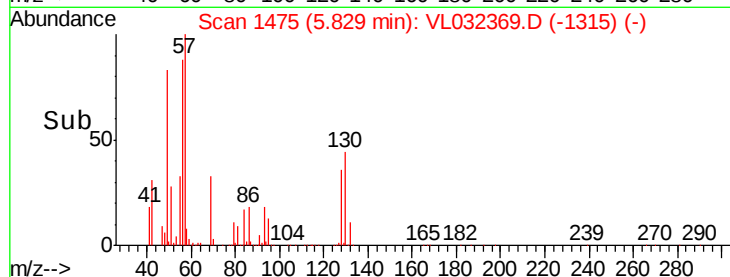
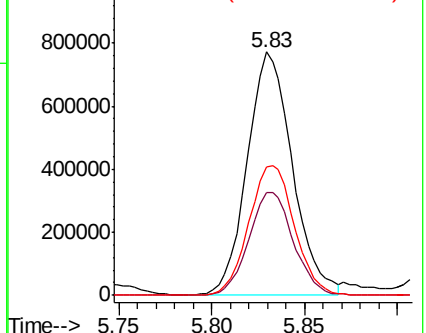
130 53.8 26.2 78.5



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



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032369.D

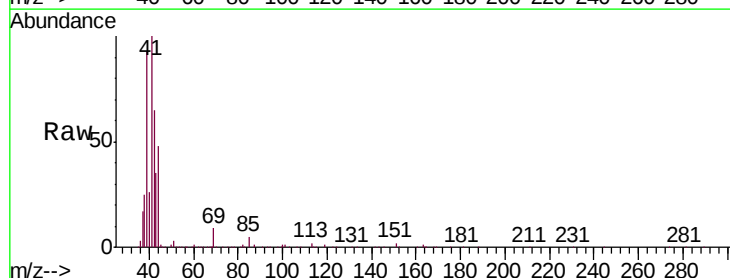
Acq: 16 Aug 2018 3:13

Tgt Ion: 85 Resp: 16901

Ion Ratio Lower Upper

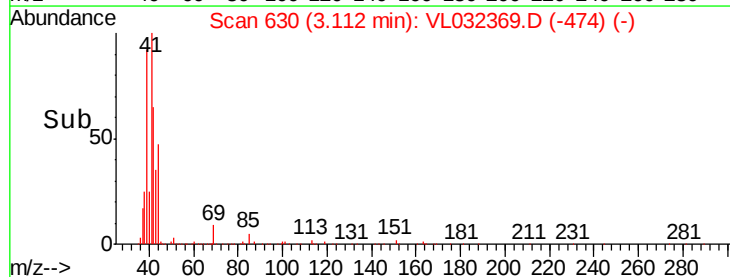
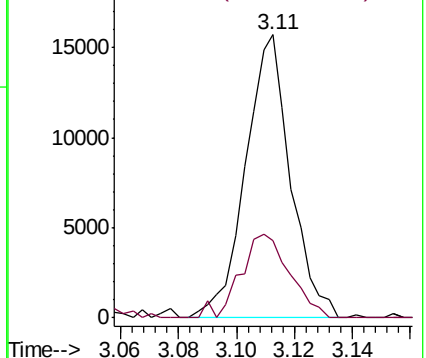
85 100

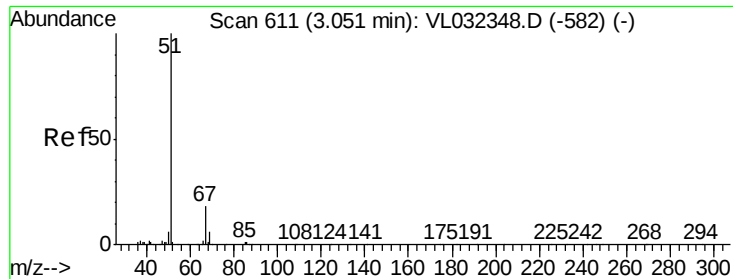
87 27.5 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

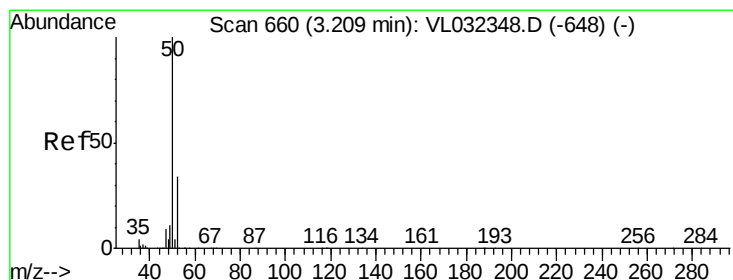
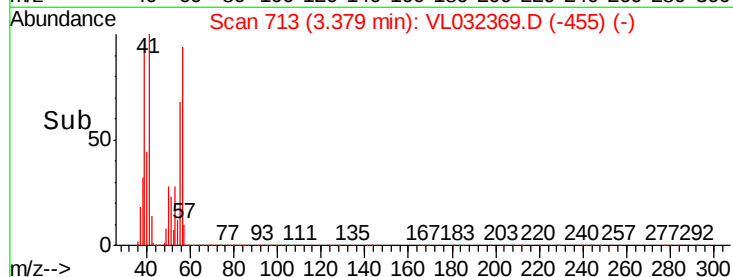
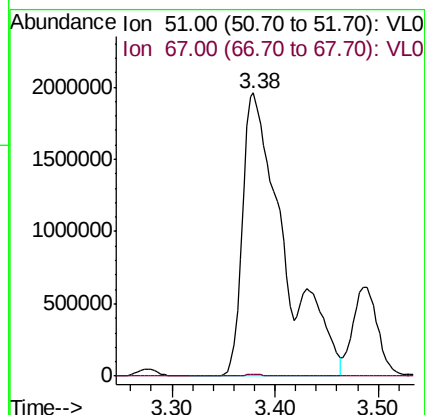
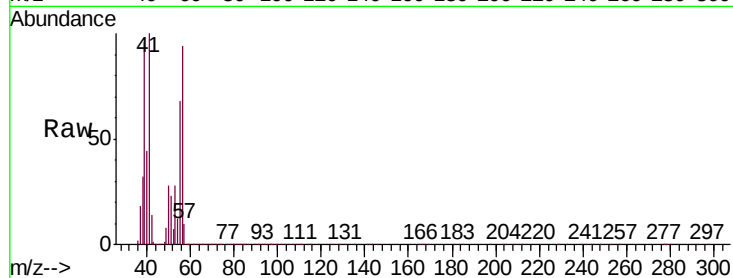




#3
 Chlorodifluoromethane
 Concen: 45.500 ppbv
 RT: 3.38 min Scan# 713
 Delta R.T. 0.33 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

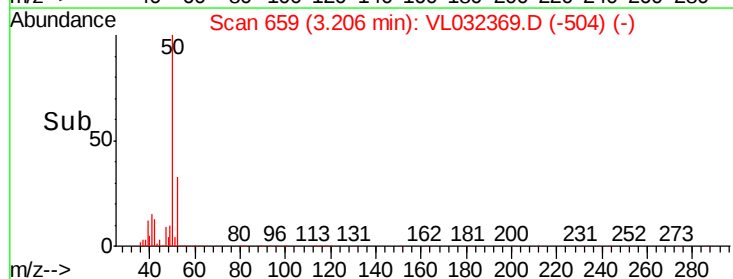
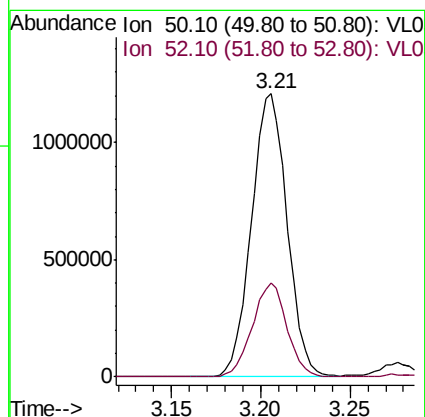
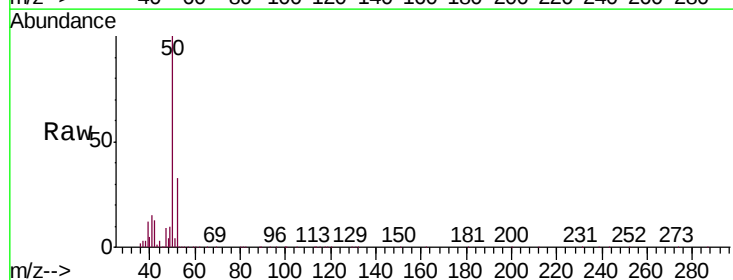
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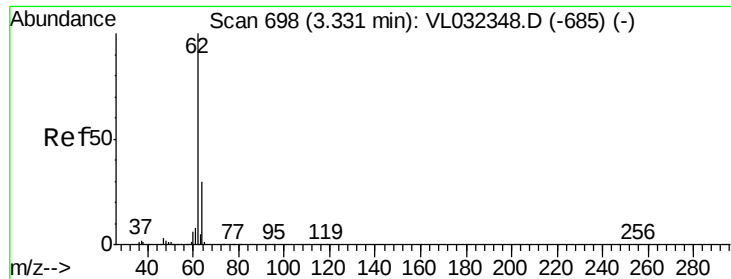
Tgt Ion: 51 Resp: 5488516
 Ion Ratio Lower Upper
 51 100
 67 0.3 13.7 20.5#



#4
 Chloromethane
 Concen: 23.600 ppbv
 RT: 3.21 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Tgt Ion: 50 Resp: 1694231
 Ion Ratio Lower Upper
 50 100
 52 33.2 26.8 40.2





#5

Vinyl Chloride

Concen: 0.237 ppbv

RT: 3.33 min Scan# 697

Delta R.T. -0.00 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

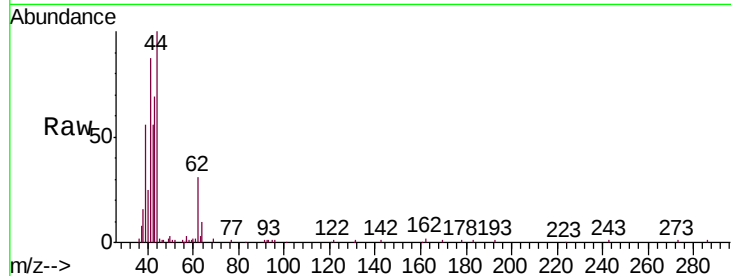
SS09-MIVI

Tgt Ion: 62 Resp: 16236

Ion Ratio Lower Upper

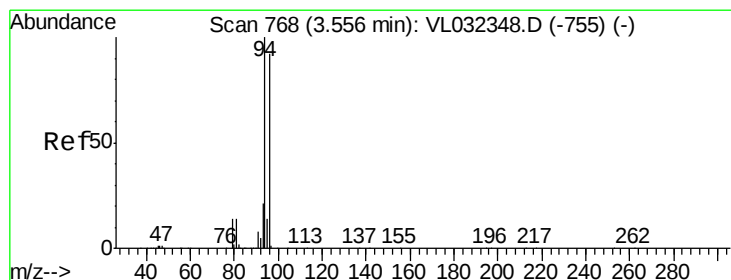
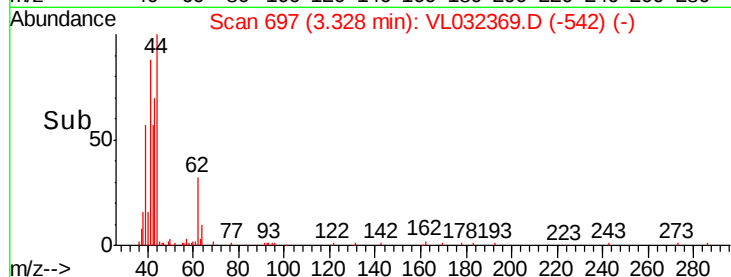
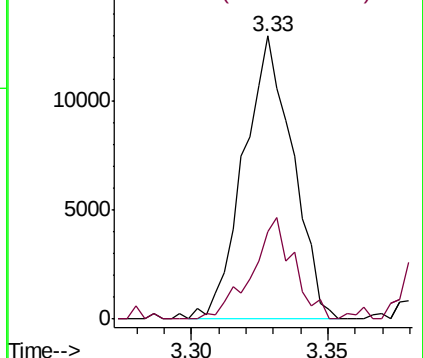
62 100

64 31.0 24.2 36.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.061 ppbv

RT: 3.56 min Scan# 768

Delta R.T. 0.00 min

Lab File: VL032369.D

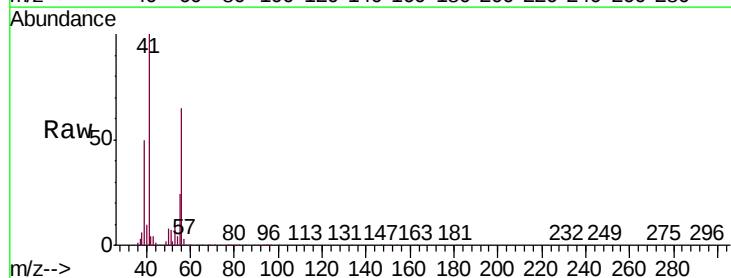
Acq: 16 Aug 2018 3:13

Tgt Ion: 94 Resp: 2250

Ion Ratio Lower Upper

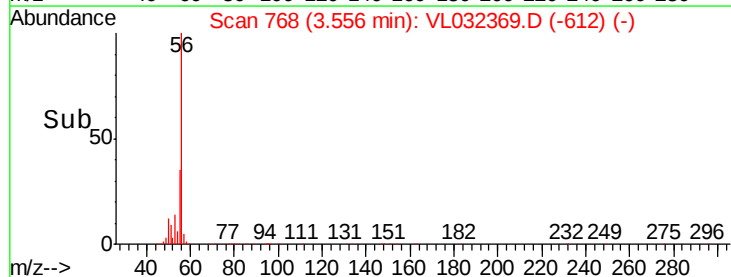
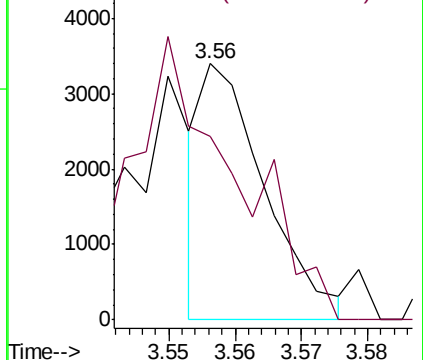
94 100

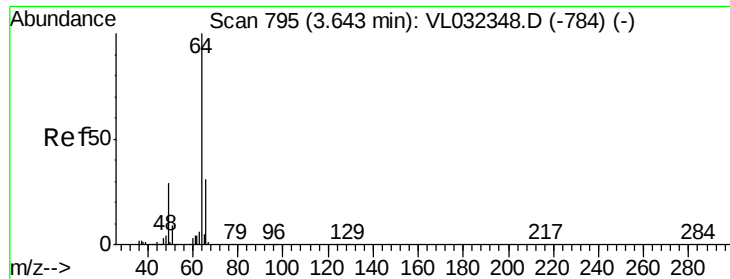
96 78.7 73.7 110.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 101.816 ppbv

RT: 3.65 min Scan# 796

Delta R.T. 0.00 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

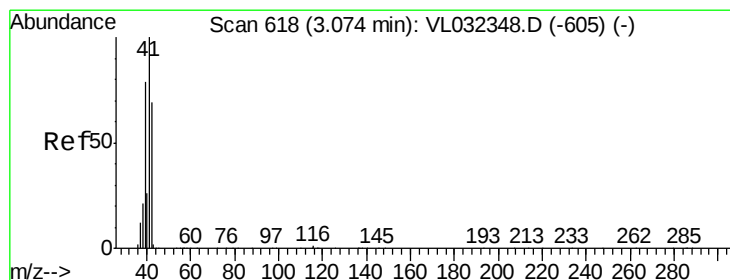
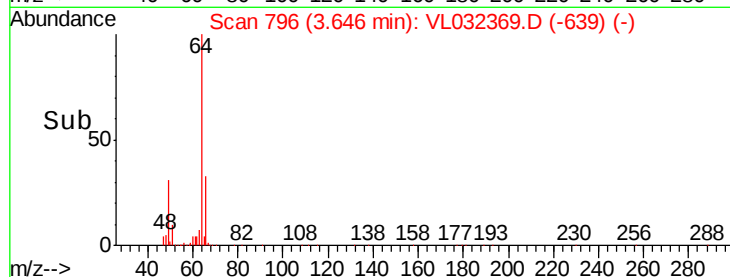
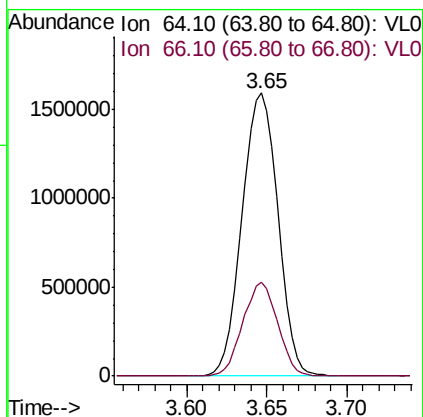
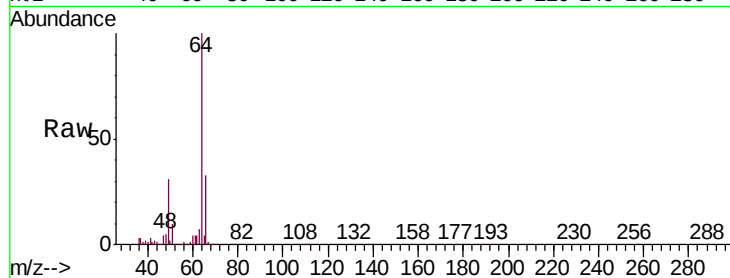
SS09-MIVI

Tgt Ion: 64 Resp: 2443279

Ion Ratio Lower Upper

64 100

66 33.1 24.6 36.8



#9

Propene

Concen: 243.415 ppbv

RT: 3.43 min Scan# 729

Delta R.T. 0.36 min

Lab File: VL032369.D

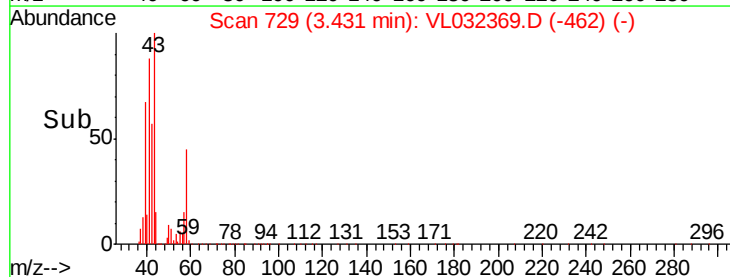
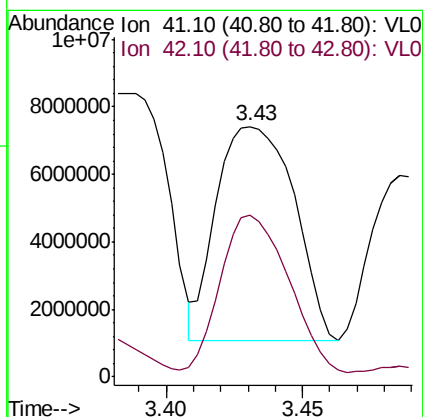
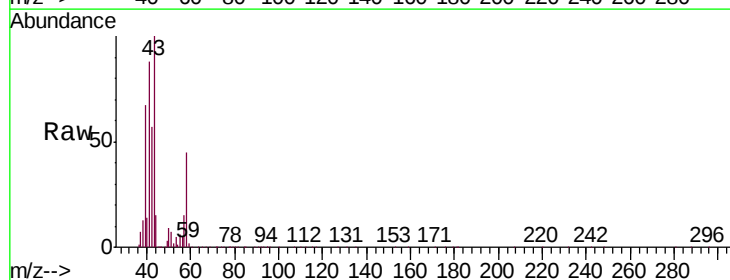
Acq: 16 Aug 2018 3:13

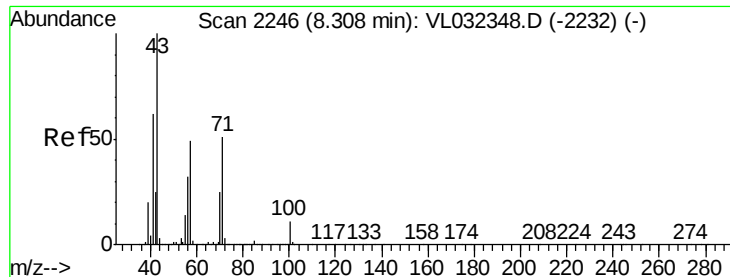
Tgt Ion: 41 Resp: 12566079

Ion Ratio Lower Upper

41 100

42 68.0 55.9 83.9





#10

Heptane

Concen: 165.834 ppbv

RT: 8.36 min Scan# 2262

Delta R.T. 0.05 min

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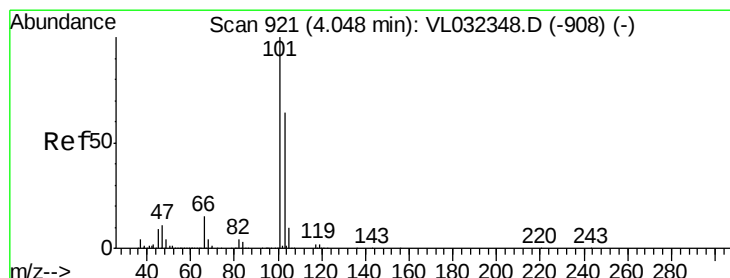
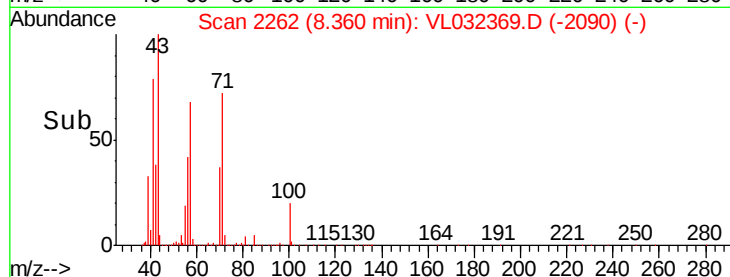
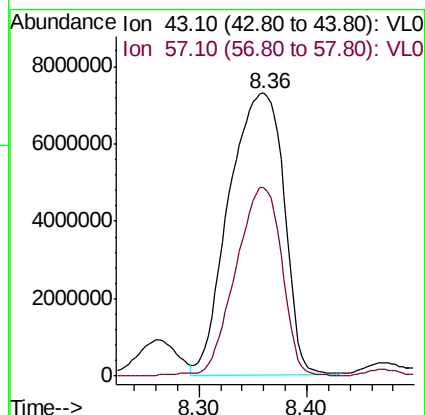
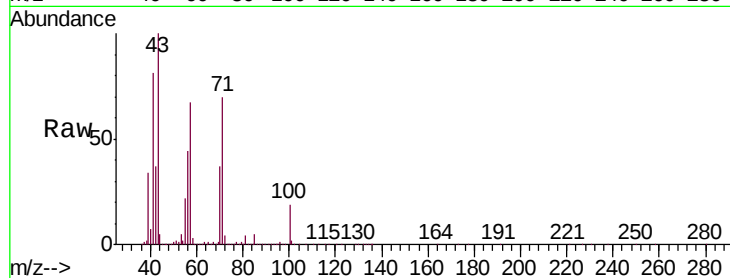
SS09-MIVI

Tgt Ion: 43 Resp: 25785343

Ion Ratio Lower Upper

43 100

57 56.4 39.5 59.3



#11

Trichlorofluoromethane

Concen: 1.339 ppbv

RT: 4.06 min Scan# 924

Delta R.T. 0.01 min

Lab File: VL032369.D

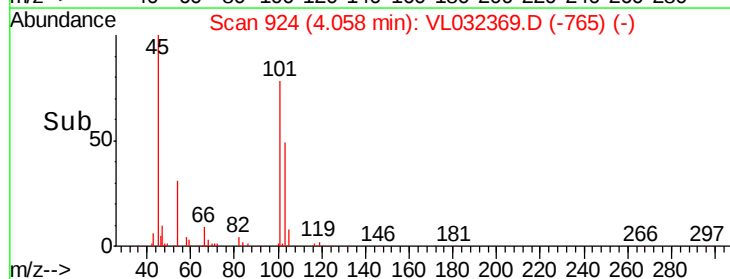
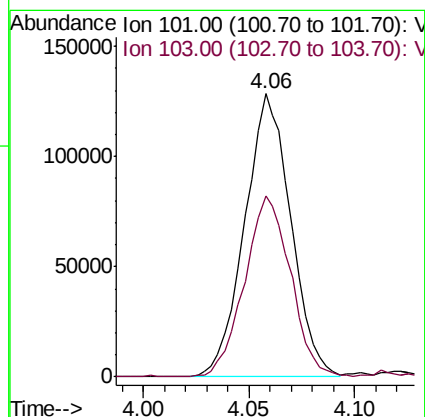
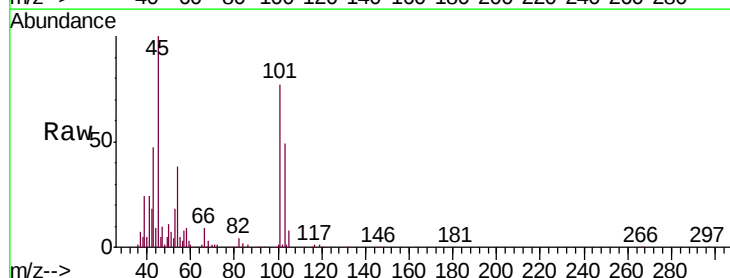
Acq: 16 Aug 2018 3:13

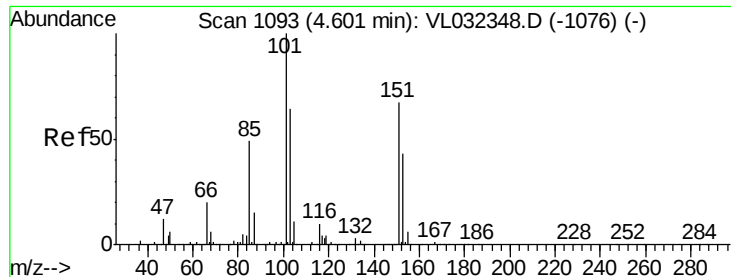
Tgt Ion: 101 Resp: 195030

Ion Ratio Lower Upper

101 100

103 63.8 51.4 77.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 7.389 ppbv

RT: 4.62 min Scan# 1098

Delta R.T. 0.02 min

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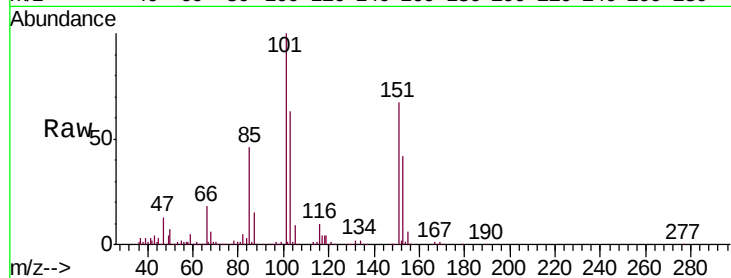
SS09-MIVI

Tgt Ion:101 Resp: 724671

Ion Ratio Lower Upper

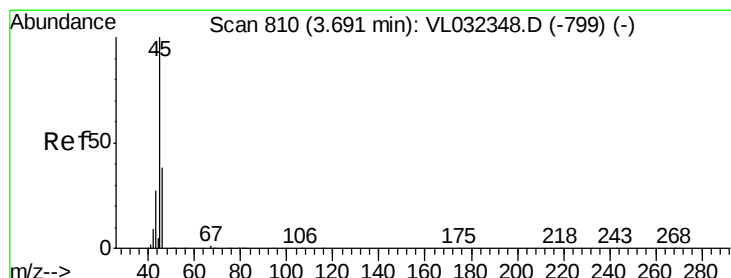
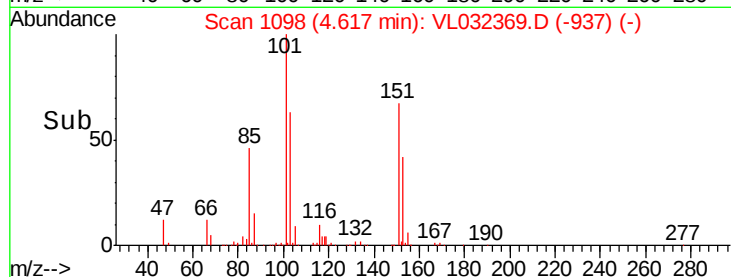
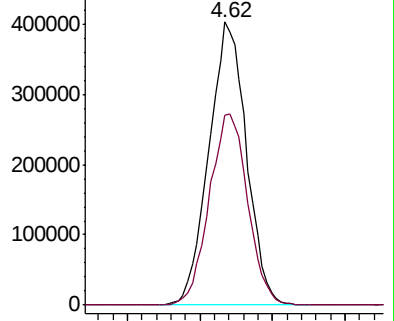
101 100

151 69.1 53.1 79.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 294.463 ppbv

RT: 3.70 min Scan# 814

Delta R.T. 0.01 min

Lab File: VL032369.D

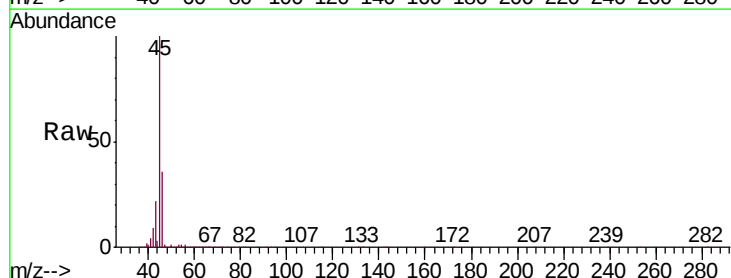
Acq: 16 Aug 2018 3:13

Tgt Ion: 45 Resp: 3904257

Ion Ratio Lower Upper

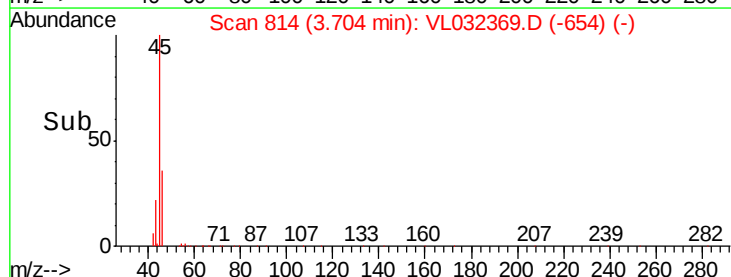
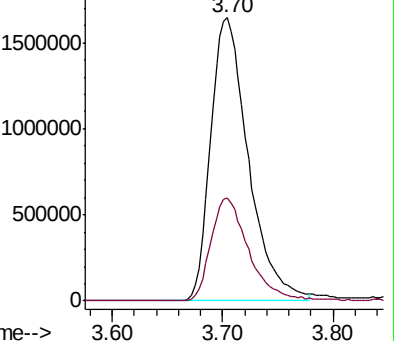
45 100

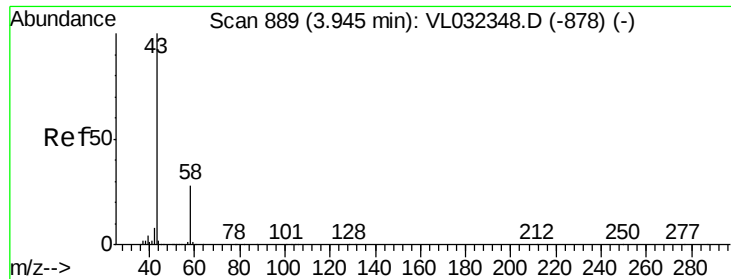
46 36.7 15.6 62.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 148.750 ppbv

RT: 3.95 min Scan# 890

Delta R.T. 0.00 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

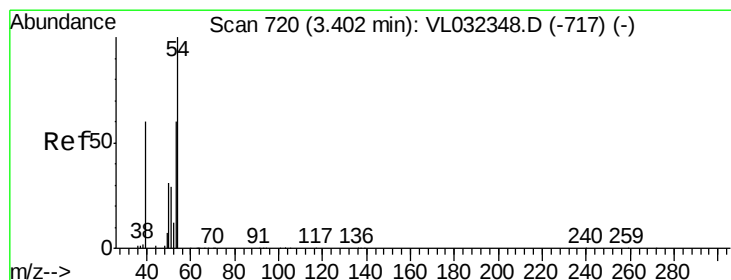
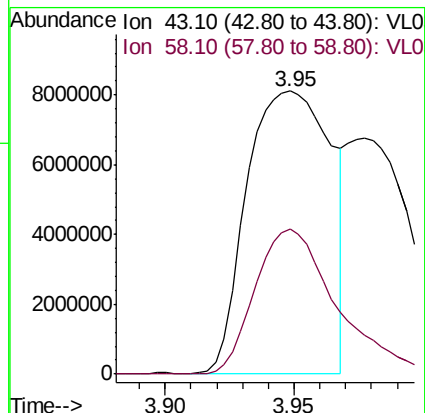
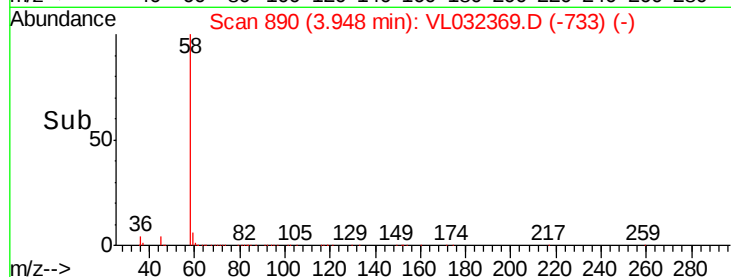
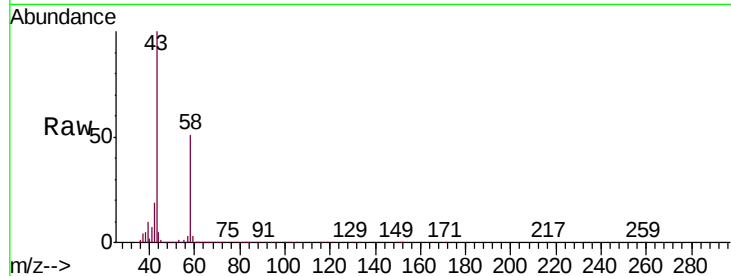
SS09-MIVI

Tgt Ion: 43 Resp:18402627

Ion Ratio Lower Upper

43 100

58 50.4 22.4 33.6#



#16

1,3-Butadiene

Concen: 193.867 ppbv

RT: 3.43 min Scan# 729

Delta R.T. 0.03 min

Lab File: VL032369.D

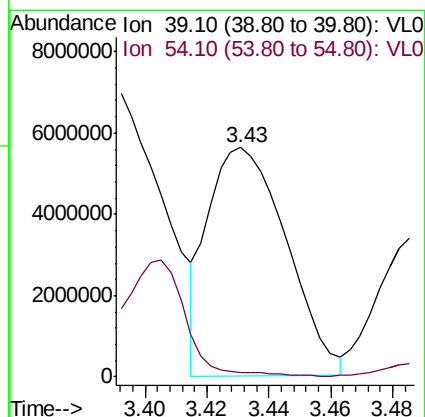
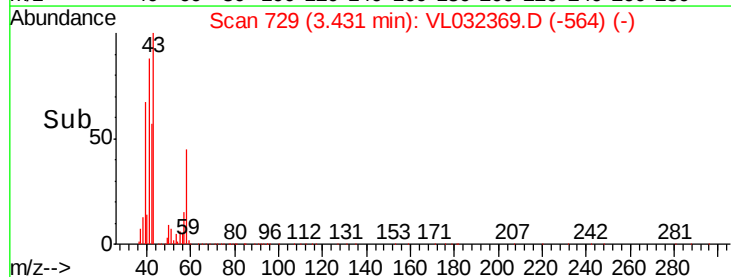
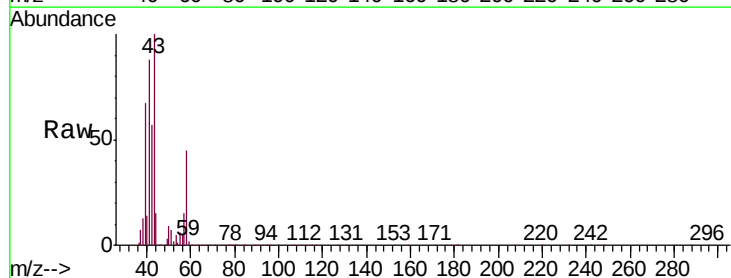
Acq: 16 Aug 2018 3:13

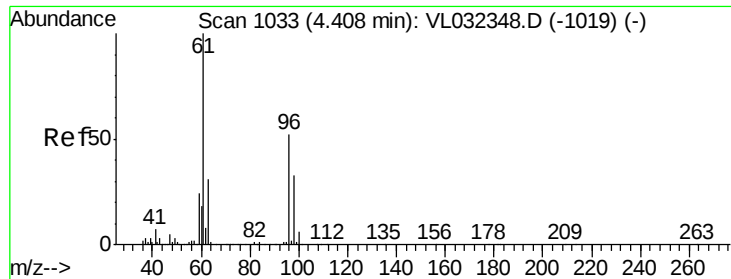
Tgt Ion: 39 Resp: 9902439

Ion Ratio Lower Upper

39 100

54 51.5 85.5 128.3#





#17

tert-Butyl alcohol

Concen: 421.353 ppbv

RT: 4.43 min Scan# 1039

Delta R.T. 0.02 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

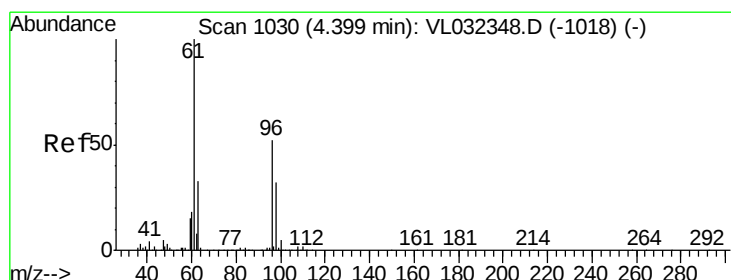
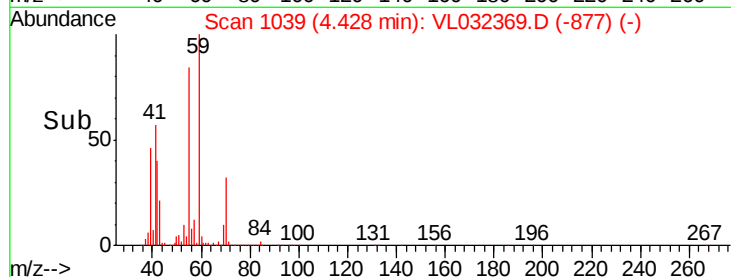
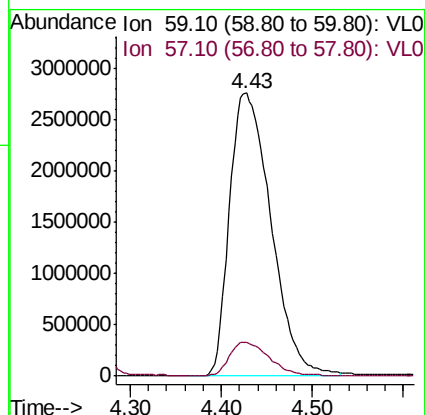
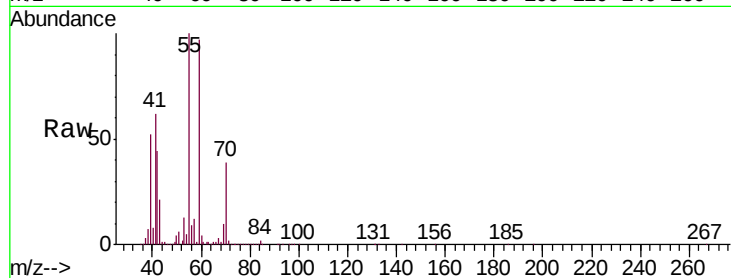
SS09-MIVI

Tgt Ion: 59 Resp: 8746809

Ion Ratio Lower Upper

59 100

57 11.5 7.6 11.4#



#18

1,1-Dichloroethene

Concen: 0.286 ppbv

RT: 4.41 min Scan# 1034

Delta R.T. 0.01 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

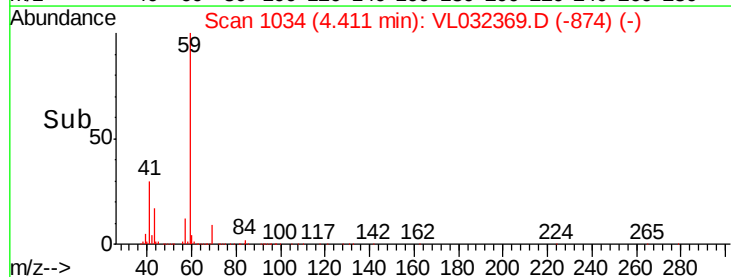
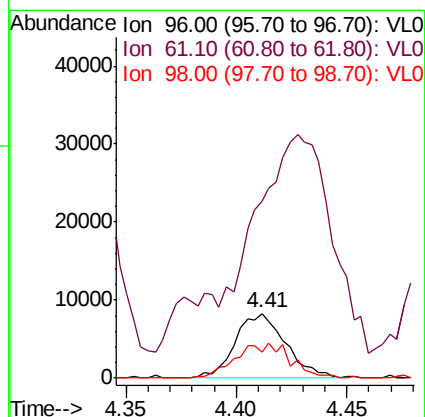
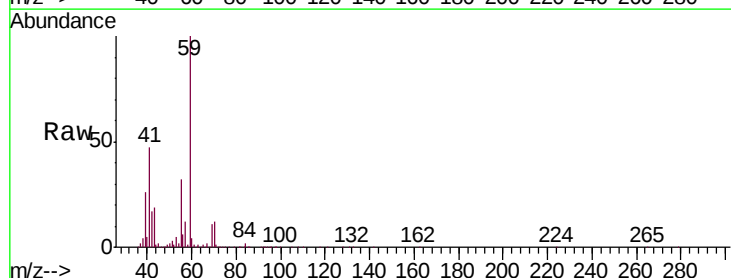
Tgt Ion: 96 Resp: 13061

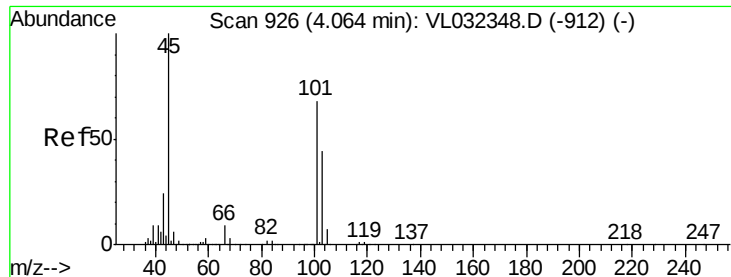
Ion Ratio Lower Upper

96 100

61 153.1 154.6 231.8#

98 39.5 50.1 75.1#



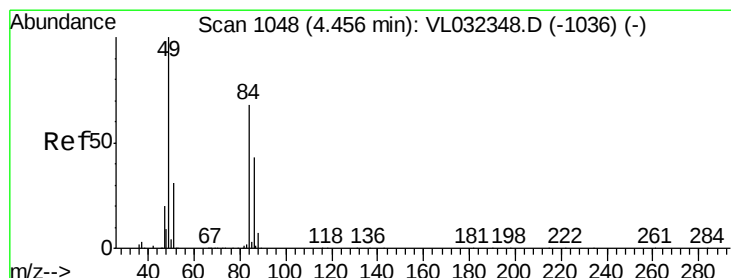
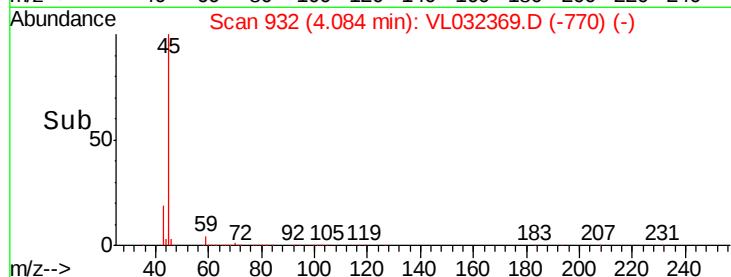
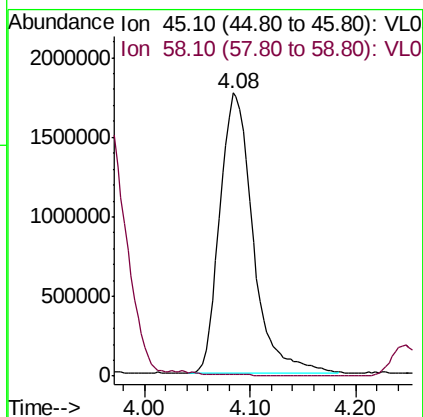
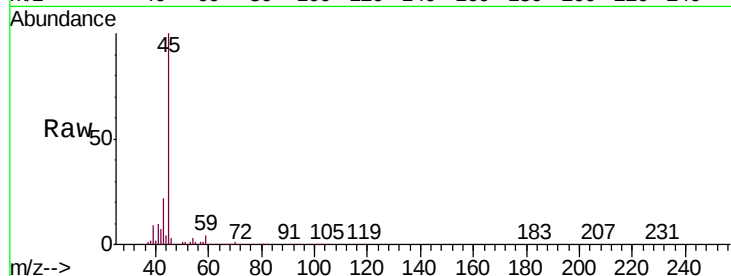


#19

Isopropyl Alcohol
 Concen: 45.930 ppbv
 RT: 4.08 min Scan# 932
 Delta R.T. 0.02 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVI

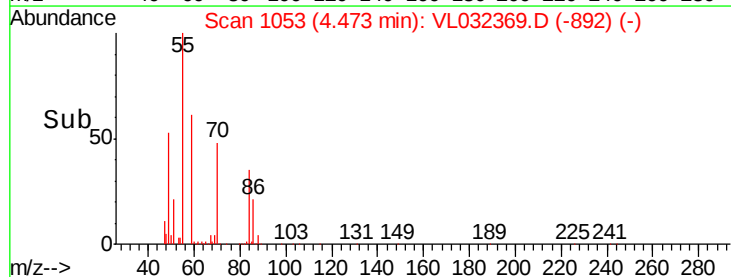
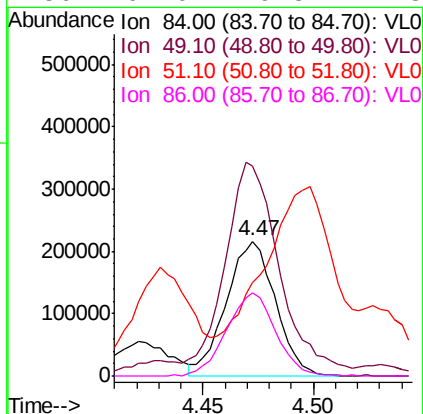
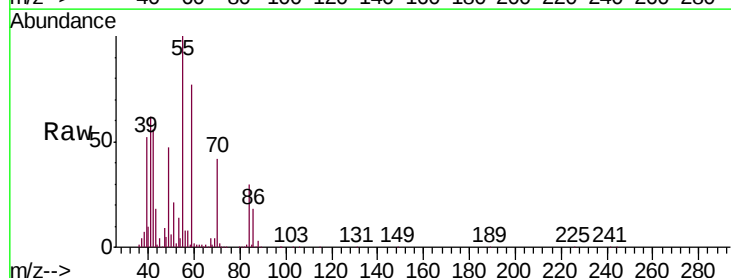
Tgt Ion: 45 Resp: 3826363
 Ion Ratio Lower Upper
 45 100
 58 9.8 1.4 2.0#

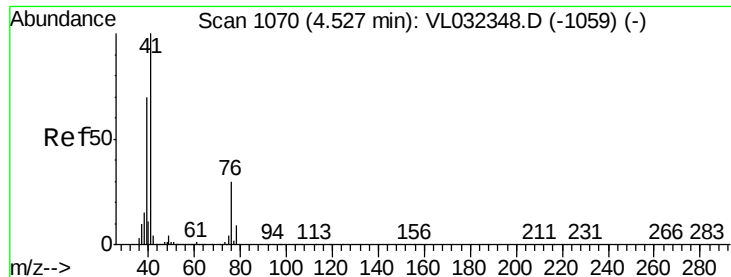


#20

Methylene Chloride
 Concen: 7.144 ppbv
 RT: 4.47 min Scan# 1053
 Delta R.T. 0.02 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Tgt Ion: 84 Resp: 333790
 Ion Ratio Lower Upper
 84 100
 49 147.2 117.3 175.9
 51 15.6 36.6 55.0#
 86 61.0 49.8 74.8

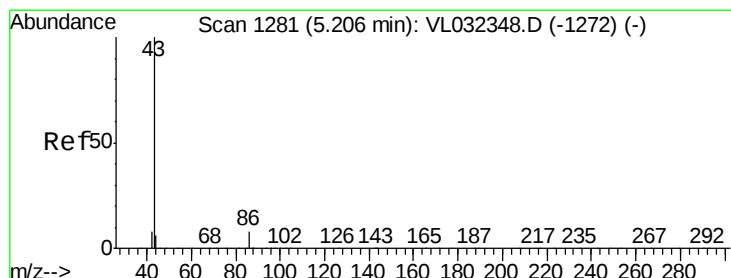
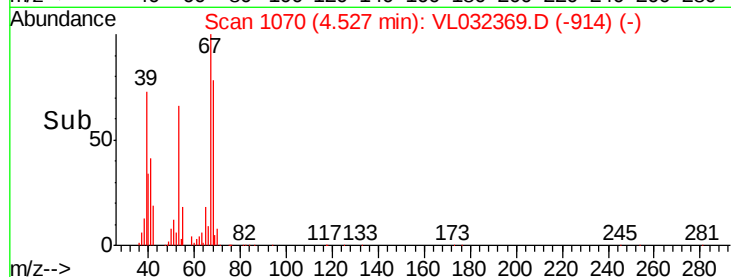
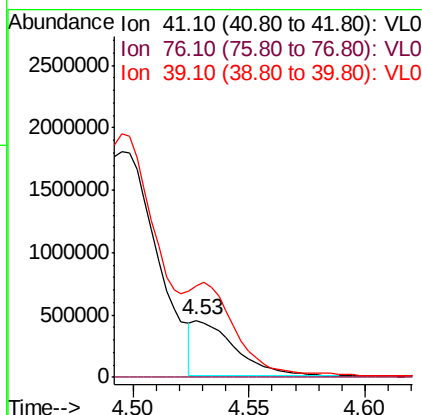
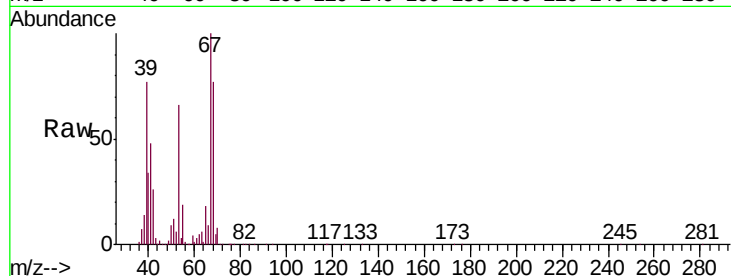




#21
 Allyl Chloride
 Concen: 6.980 ppbv
 RT: 4.53 min Scan# 1070
 Delta R.T. 0.00 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

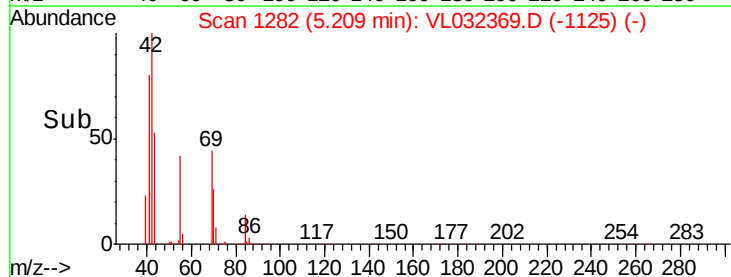
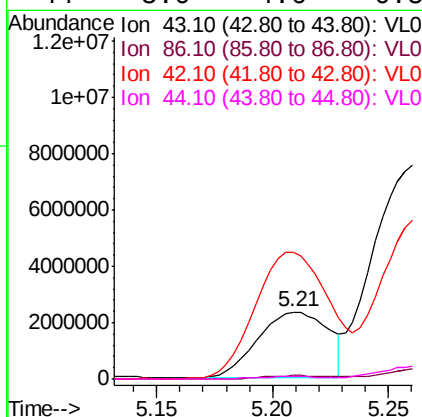
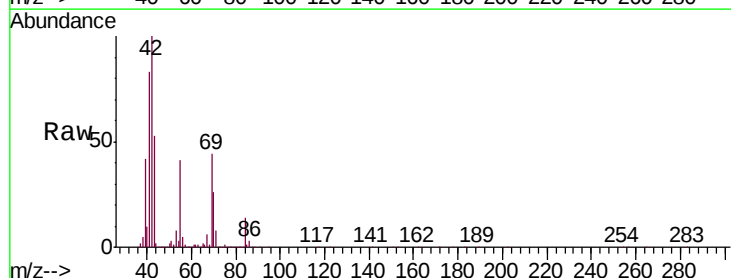
Instrument :
 MSVOA_L
 ClientSampled :
 SS09-MIVI

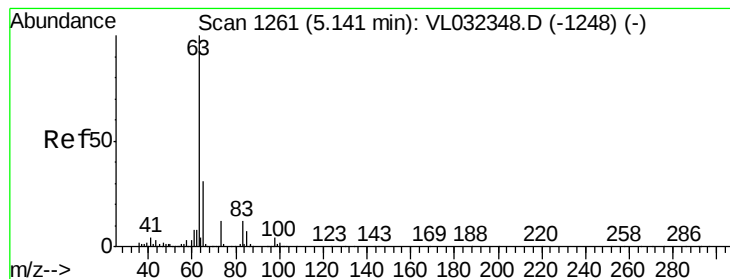
Tgt Ion: 41 Resp: 545046
 Ion Ratio Lower Upper
 41 100
 76 0.0 22.9 34.3#
 39 0.0 57.6 86.4#



#23
 Vinyl Acetate
 Concen: 23.288 ppbv
 RT: 5.21 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Tgt Ion: 43 Resp: 4975139
 Ion Ratio Lower Upper
 43 100
 86 5.1 5.5 8.3#
 42 191.1 7.0 10.6#
 44 3.0 4.6 6.8#





#24

1,1-Dichloroethane

Concen: 0.694 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVI

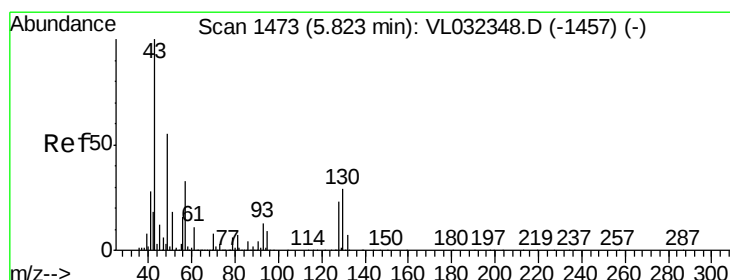
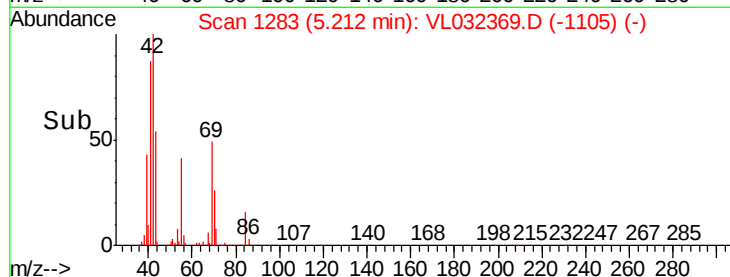
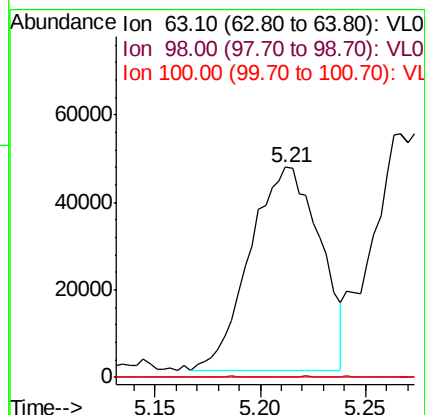
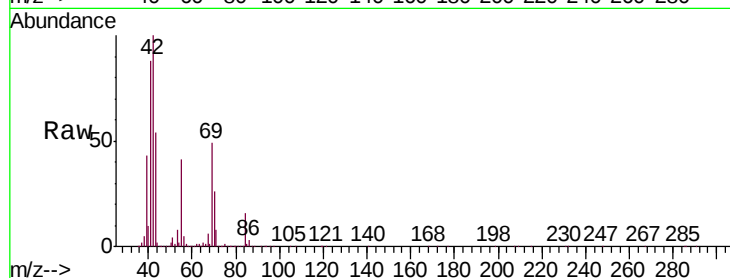
Tgt Ion: 63 Resp: 107024

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.3#

100 0.0 1.2 3.6#



#25

Ethyl Acetate

Concen: 81.201 ppbv

RT: 5.87 min Scan# 1487

Delta R.T. 0.05 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Tgt Ion: 43 Resp: 21528806

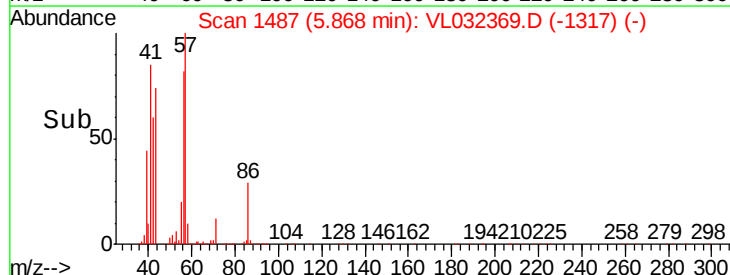
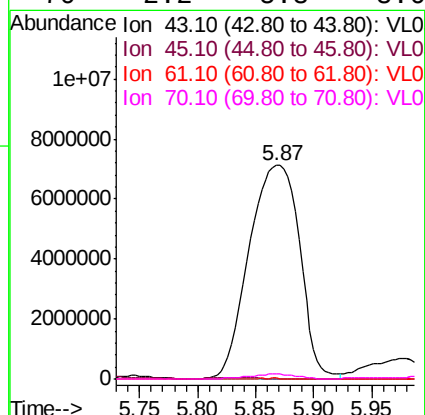
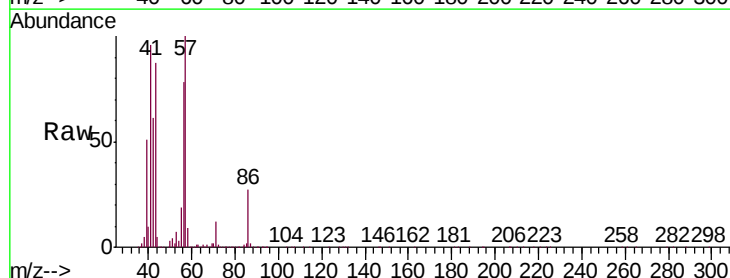
Ion Ratio Lower Upper

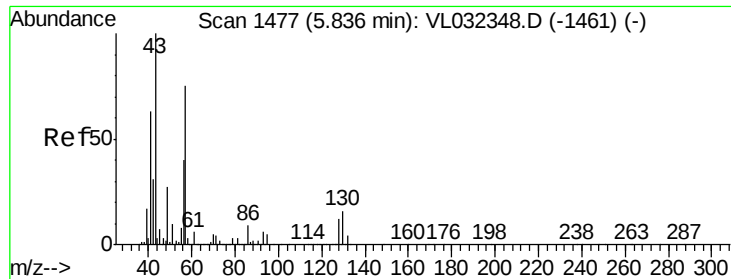
43 100

45 0.7 7.9 11.9#

61 0.4 7.4 11.2#

70 2.2 5.8 8.6#



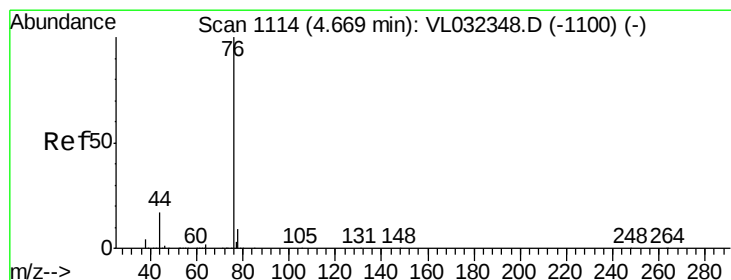
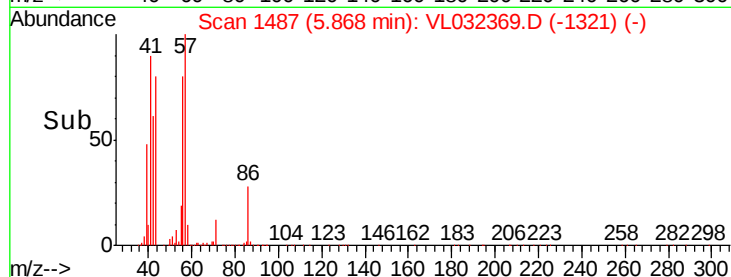
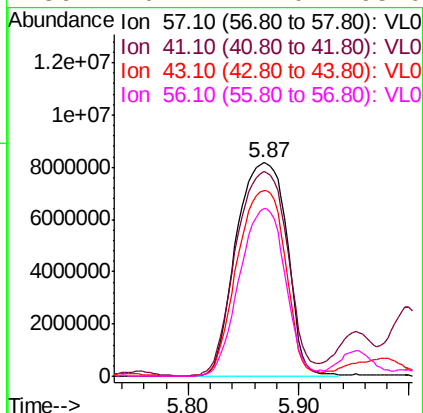
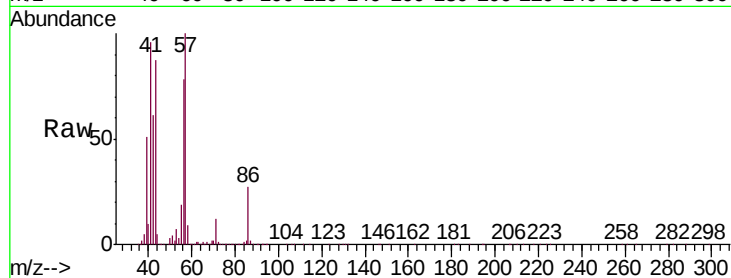


#26
Hexane
Concen: 220.377 ppbv
RT: 5.87 min Scan# 1487
Delta R.T. 0.03 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVI

Tgt Ion: 57 Resp: 26047722

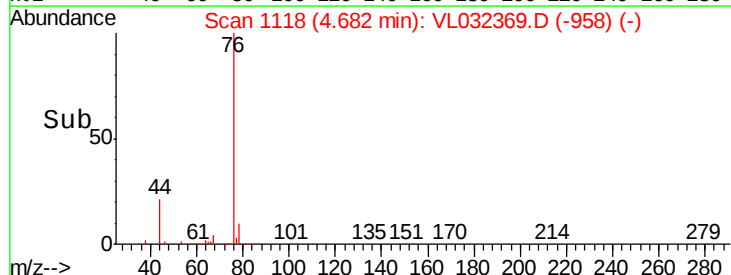
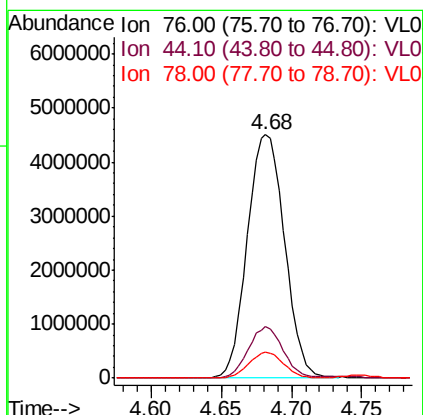
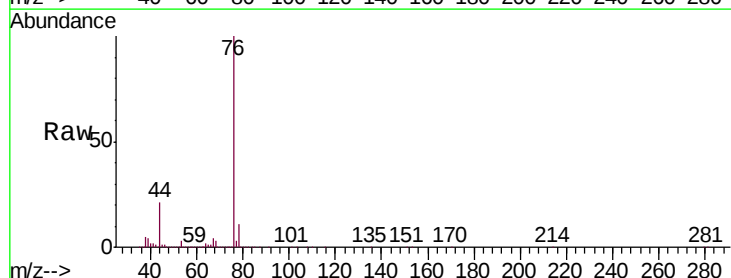
Ion	Ratio	Lower	Upper
57	100		
41	97.3	68.0	102.0
43	82.4	175.3	262.9#
56	70.7	42.0	63.0#

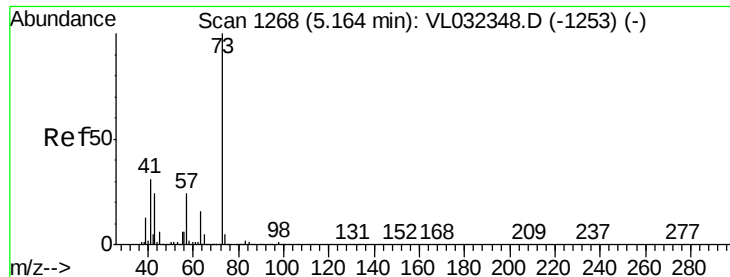


#27
Carbon Disulfide
Concen: 75.653 ppbv
RT: 4.68 min Scan# 1118
Delta R.T. 0.01 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

Tgt Ion: 76 Resp: 8346058

Ion	Ratio	Lower	Upper
76	100		
44	20.2	14.4	21.6
78	9.9	7.4	11.0



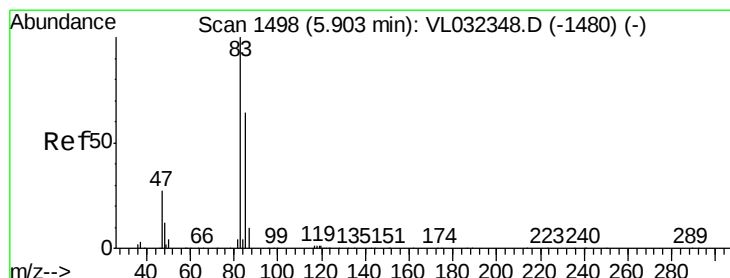
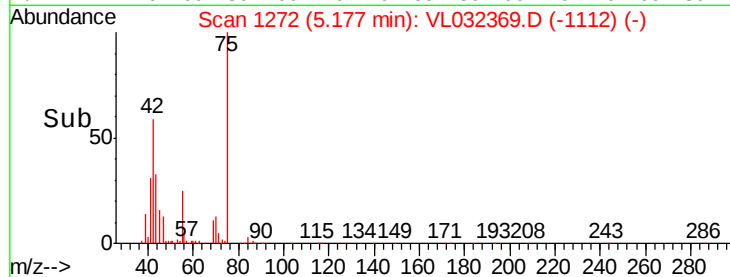
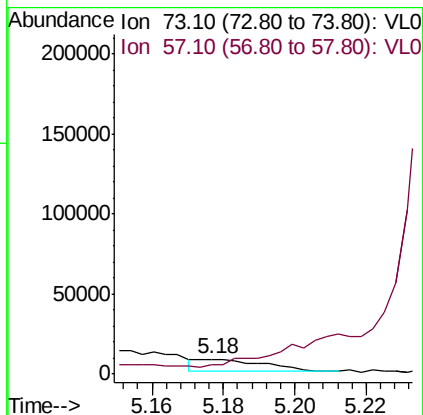
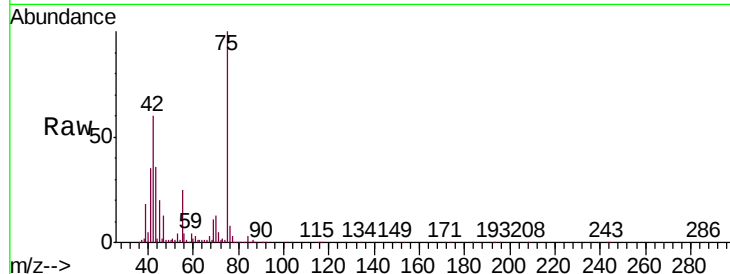


#28

Methyl tert-Butyl Ether
 Concen: 0.064 ppbv
 RT: 5.18 min Scan# 1272
 Delta R.T. 0.01 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVI

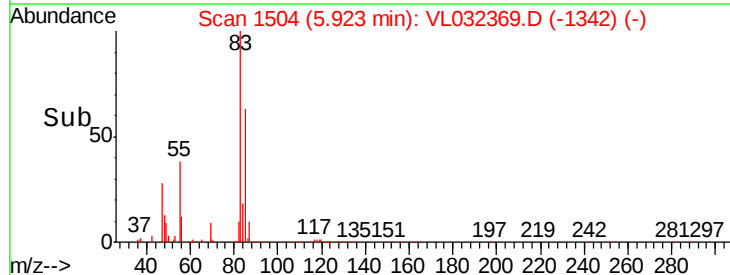
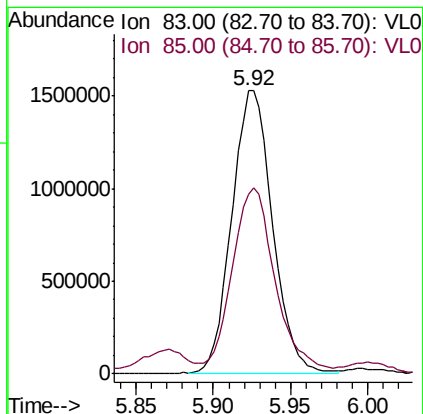
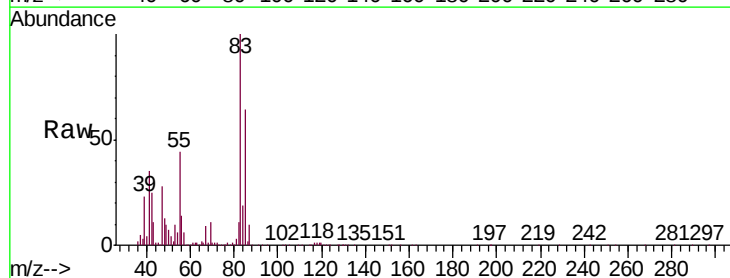
Tgt Ion: 73 Resp: 9961
 Ion Ratio Lower Upper
 73 100
 57 0.0 19.3 28.9#

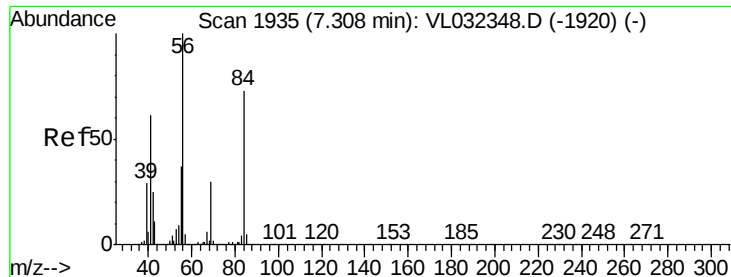


#29

Chloroform
 Concen: 16.036 ppbv
 RT: 5.92 min Scan# 1504
 Delta R.T. 0.02 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Tgt Ion: 83 Resp: 2777785
 Ion Ratio Lower Upper
 83 100
 85 61.4 51.6 77.4

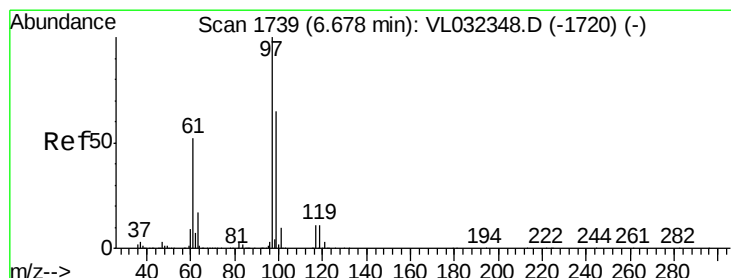
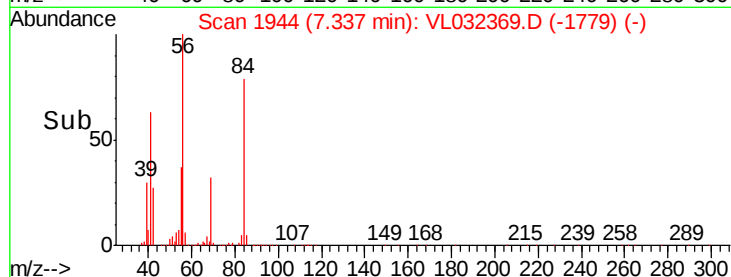
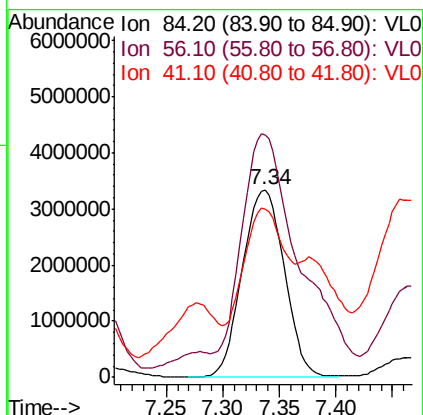
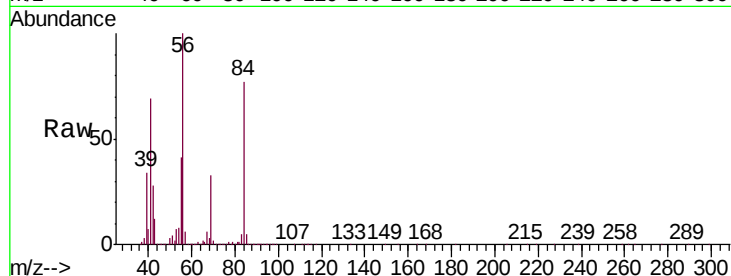




#30
Cyclohexane
Concen: 95.785 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. 0.03 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

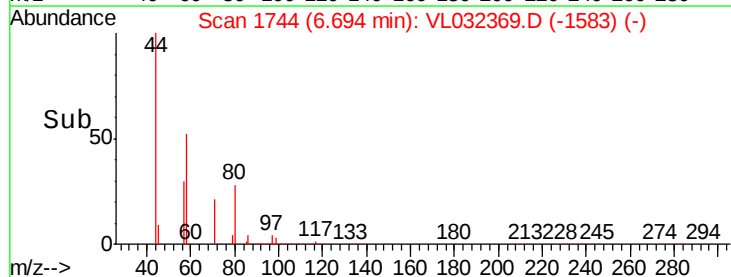
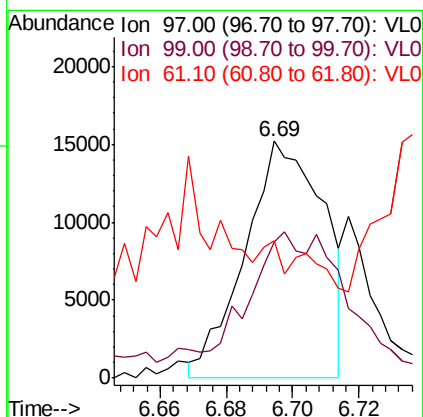
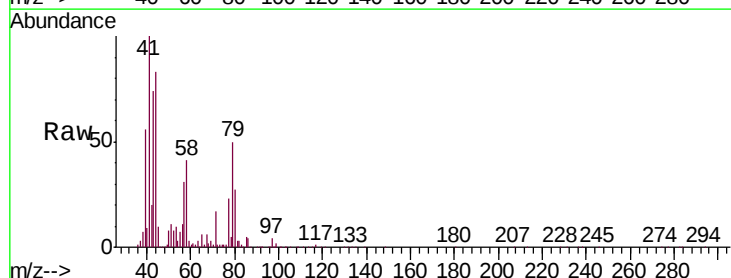
Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVI

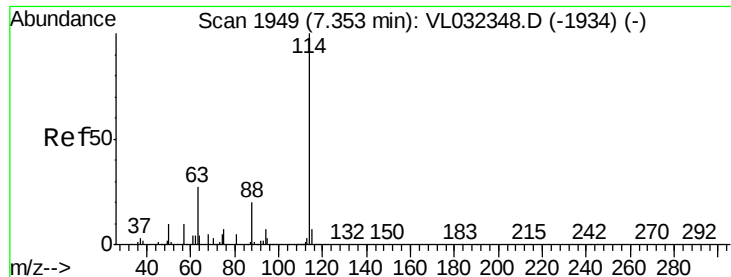
Tgt Ion: 84 Resp: 8623950
Ion Ratio Lower Upper
84 100
56 191.0 115.7 173.5#
41 143.3 67.9 101.9#



#32
1,1,1-Trichloroethane
Concen: 0.149 ppbv
RT: 6.69 min Scan# 1744
Delta R.T. 0.02 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

Tgt Ion: 97 Resp: 25084
Ion Ratio Lower Upper
97 100
99 96.6 51.1 76.7#
61 28.0 41.1 61.7#

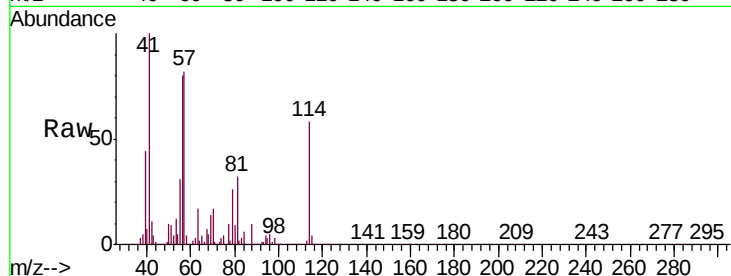




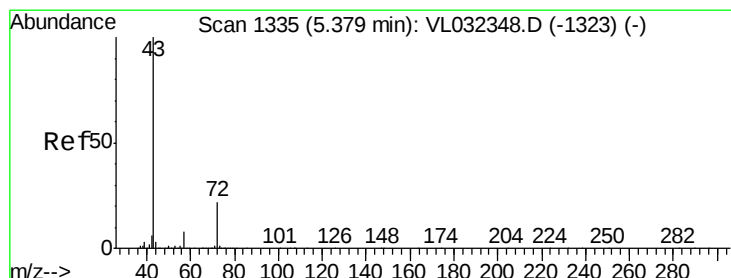
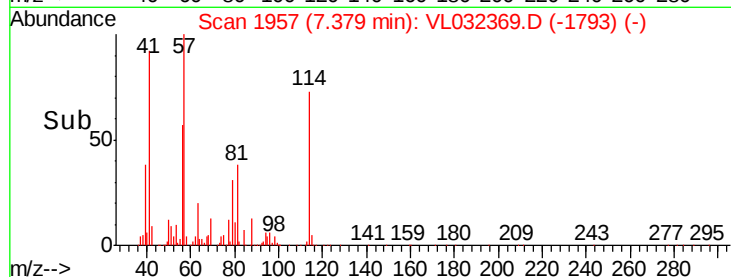
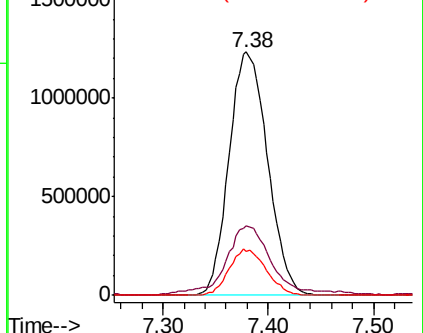
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.38 min Scan# 1957
 Delta R.T. 0.03 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVI

Tgt Ion:114 Resp: 3130492
 Ion Ratio Lower Upper
 114 100
 63 33.6 22.0 33.0#
 88 18.2 15.3 22.9

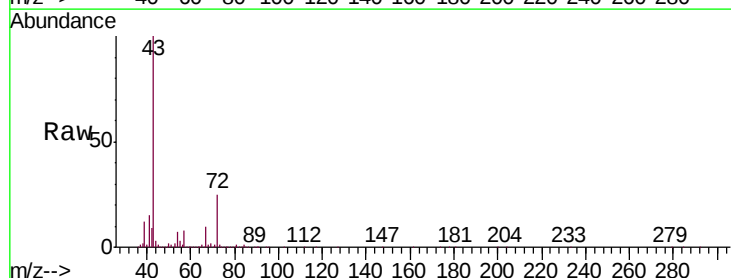


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

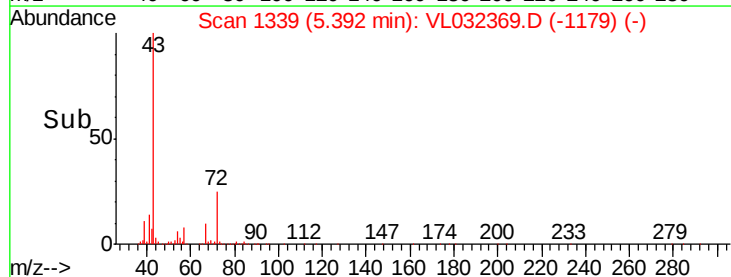
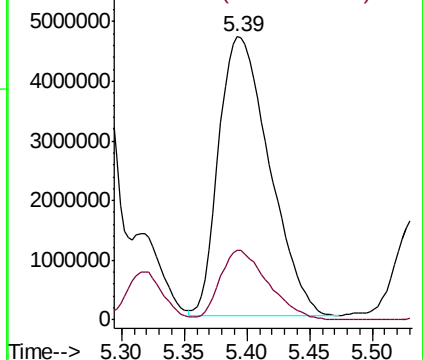


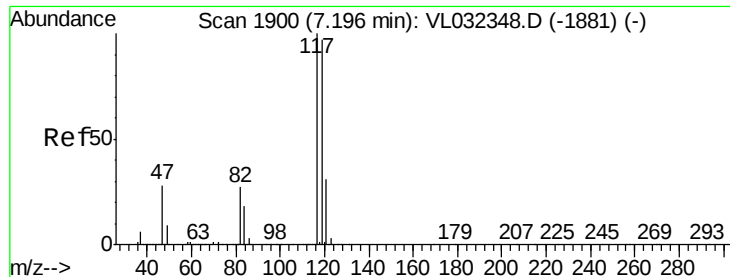
#34
 2-Butanone
 Concen: 61.678 ppbv
 RT: 5.39 min Scan# 1339
 Delta R.T. 0.01 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Tgt Ion: 43 Resp:13141045
 Ion Ratio Lower Upper
 43 100
 72 23.7 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.070 ppbv

RT: 7.23 min Scan# 1910

Delta R.T. 0.03 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVI

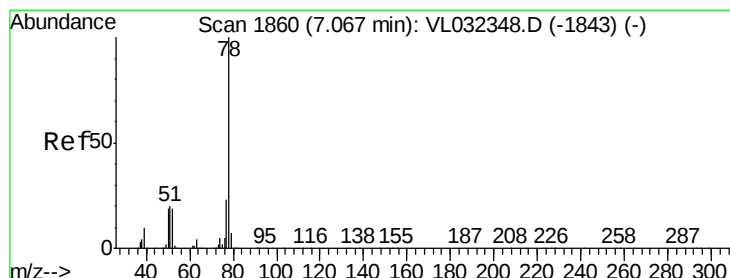
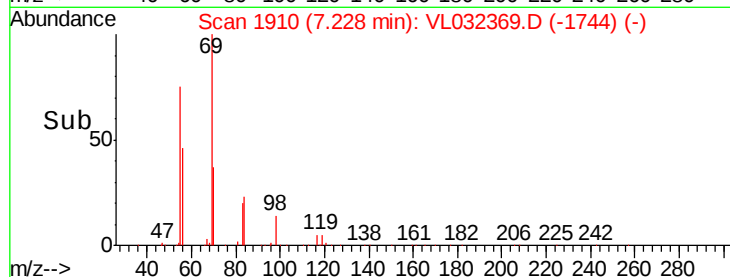
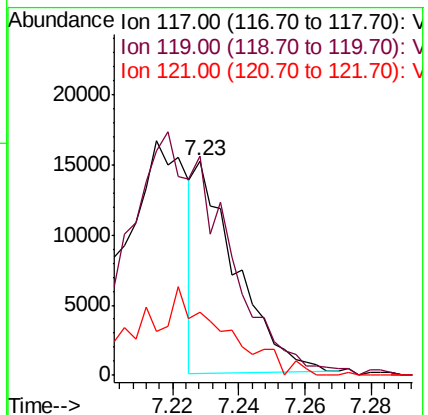
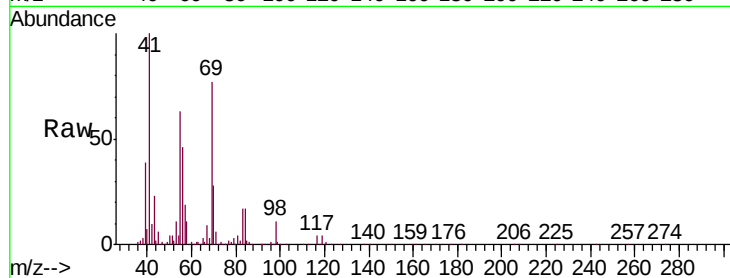
Tgt Ion:117 Resp: 12966

Ion Ratio Lower Upper

117 100

119 100.1 77.2 115.8

121 29.7 25.1 37.7



#36

Benzene

Concen: 57.137 ppbv

RT: 7.09 min Scan# 1867

Delta R.T. 0.02 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

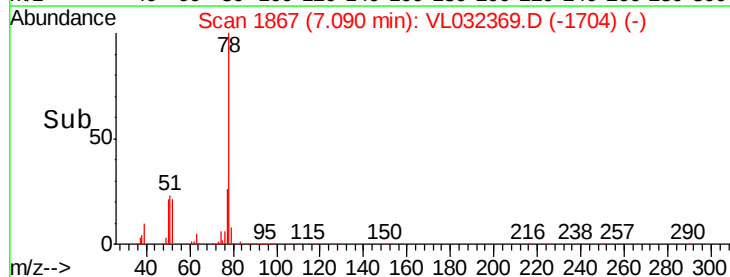
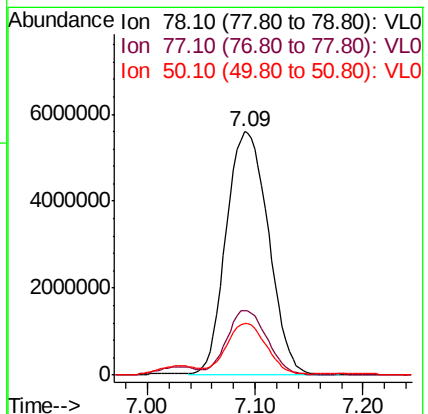
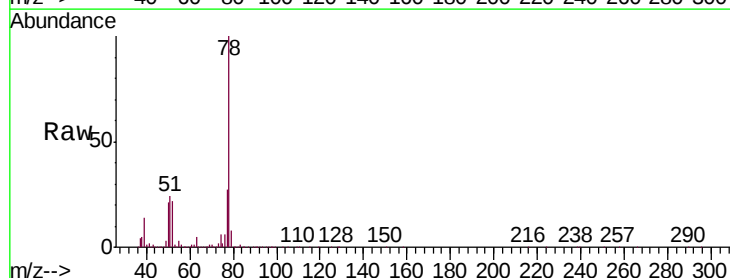
Tgt Ion: 78 Resp:15164523

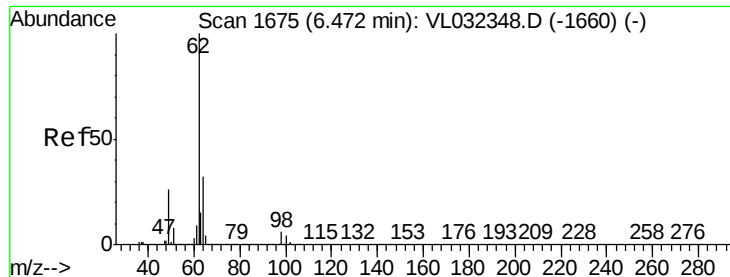
Ion Ratio Lower Upper

78 100

77 26.1 18.0 27.0

50 20.8 15.1 22.7

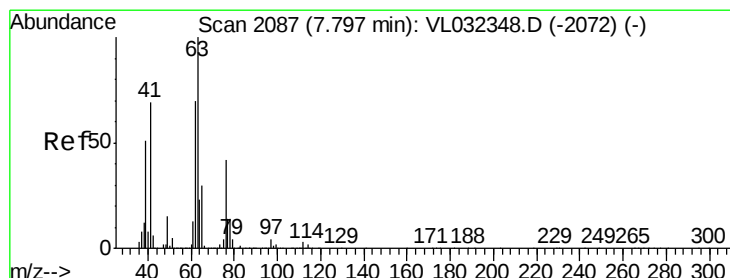
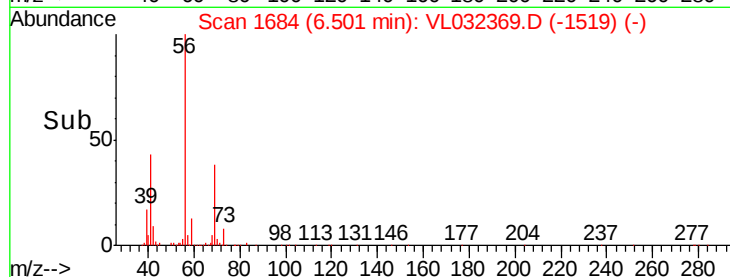
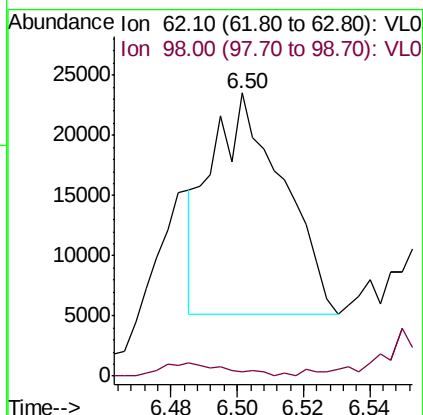
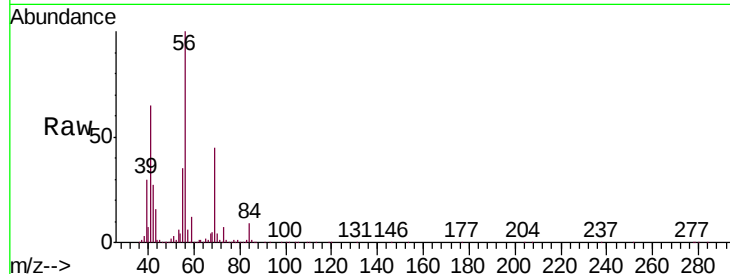




#37
 1,2-Dichloroethane
 Concen: 0.171 ppbv
 RT: 6.50 min Scan# 1684
 Delta R.T. 0.03 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

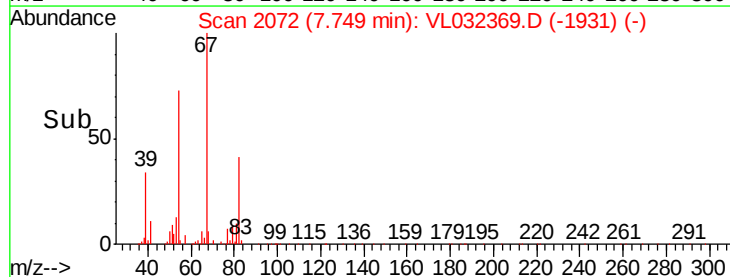
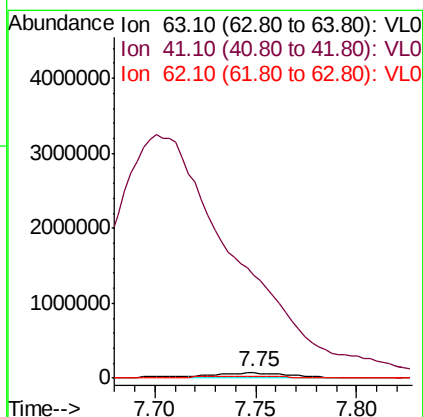
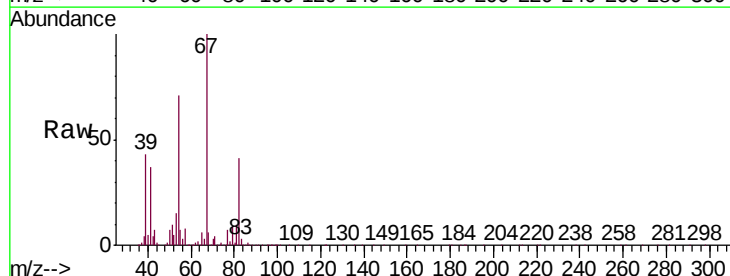
Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVI

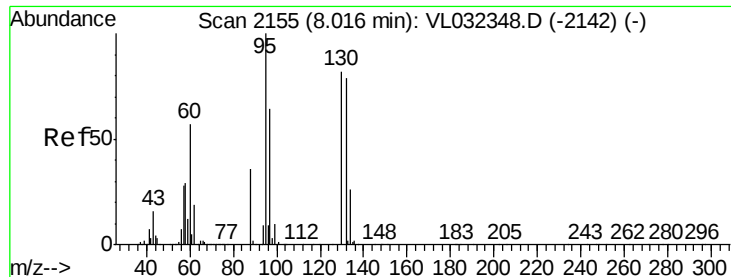
Tgt Ion: 62 Resp: 27575
 Ion Ratio Lower Upper
 62 100
 98 153.1 5.0 7.6#



#39
 1,2-Dichloropropane
 Concen: 1.379 ppbv
 RT: 7.75 min Scan# 2072
 Delta R.T. -0.05 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Tgt Ion: 63 Resp: 152907
 Ion Ratio Lower Upper
 63 100
 41 1602.1 55.5 83.3#
 62 38.0 56.3 84.5#





#40

1,4-Dioxane

Concen: 0.038 ppbv

RT: 8.05 min Scan# 2166

Delta R.T. 0.04 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVI

Tgt Ion: 88 Resp: 1265

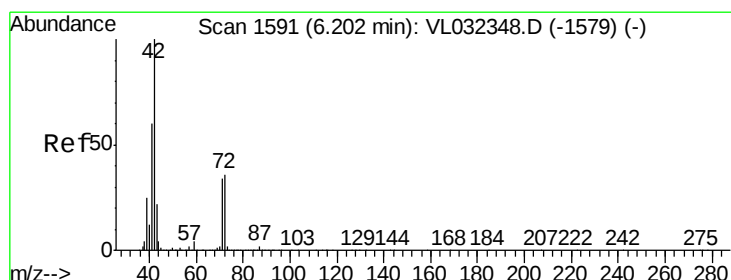
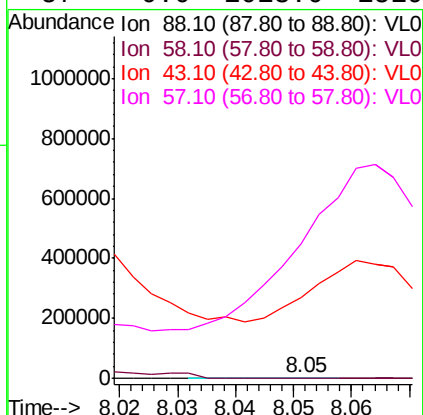
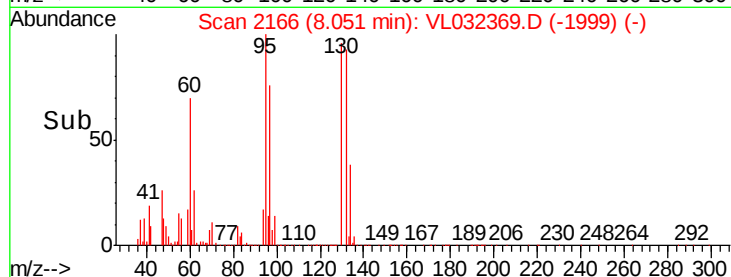
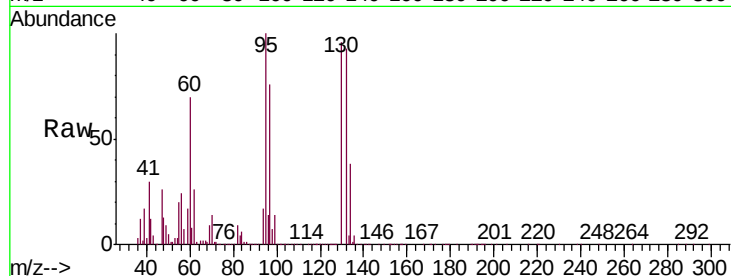
Ion Ratio Lower Upper

88 100

58 0.0 113.7 170.5#

43 0.0 224.0 336.0#

57 0.0 1013.0 1519.6#



#41

Tetrahydrofuran

Concen: 41.673 ppbv

RT: 6.22 min Scan# 1597

Delta R.T. 0.02 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

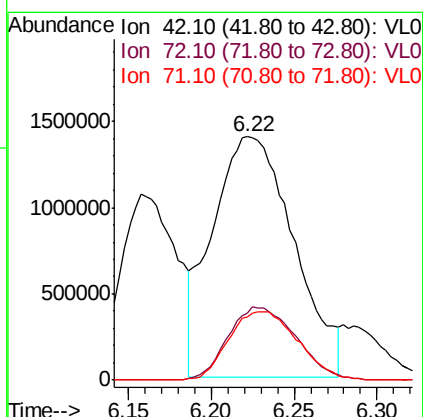
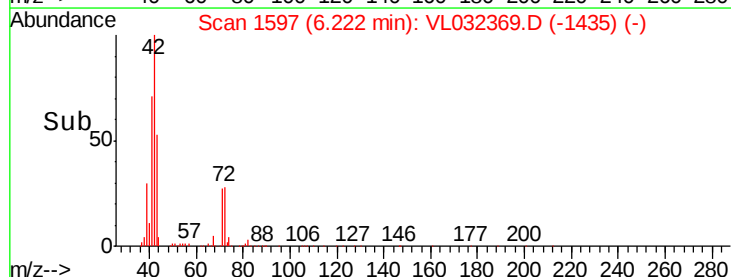
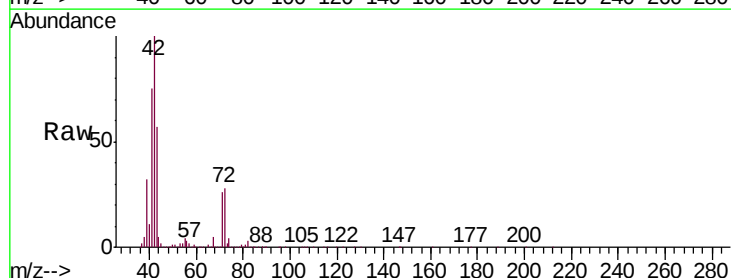
Tgt Ion: 42 Resp: 4766578

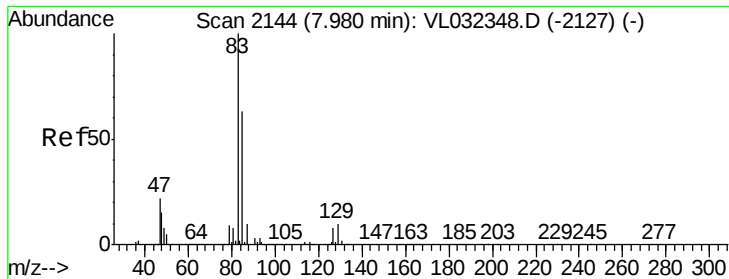
Ion Ratio Lower Upper

42 100

72 25.6 29.8 44.6#

71 24.2 28.2 42.2#





#42

Bromodichloromethane

Concen: 5.765 ppbv

RT: 8.06 min Scan# 2170

Delta R.T. 0.08 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVI

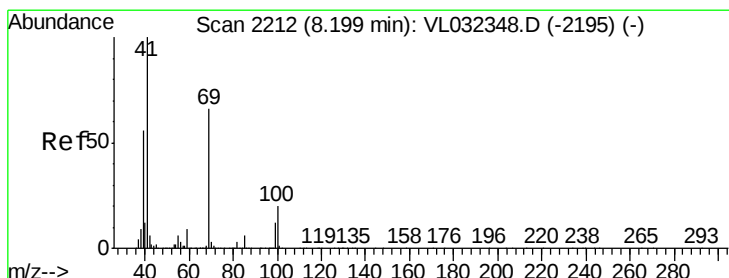
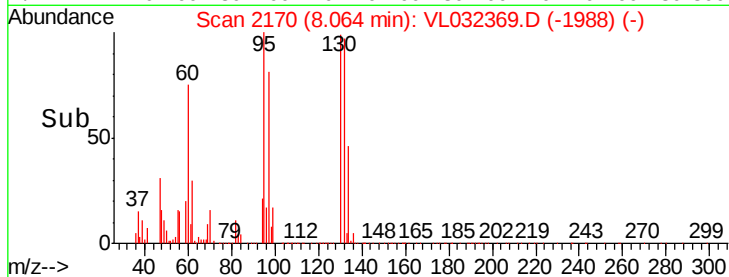
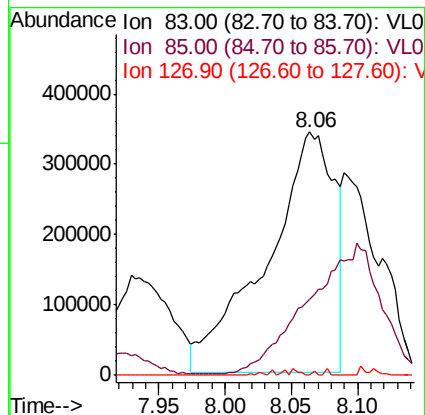
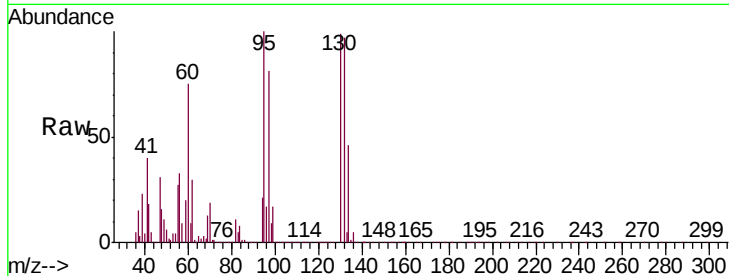
Tgt Ion: 83 Resp: 1215370

Ion Ratio Lower Upper

83 100

85 35.0 50.4 75.6#

127 0.0 6.1 9.1#



#43

Methyl Methacrylate

Concen: 1.905 ppbv

RT: 8.21 min Scan# 2215

Delta R.T. 0.01 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

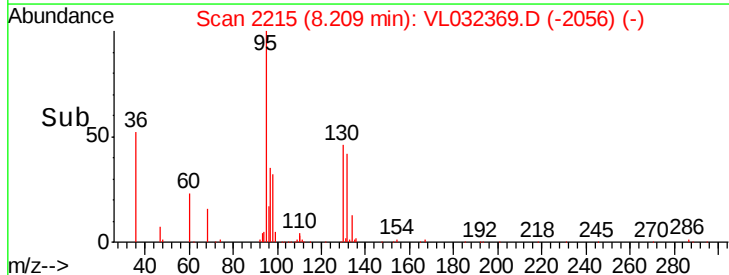
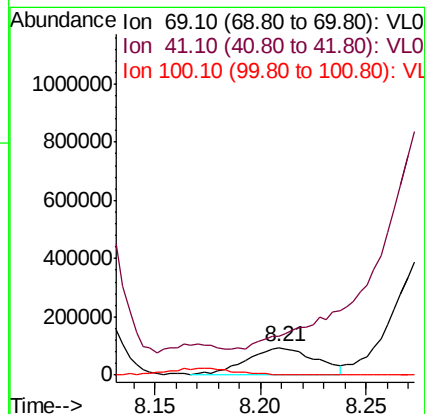
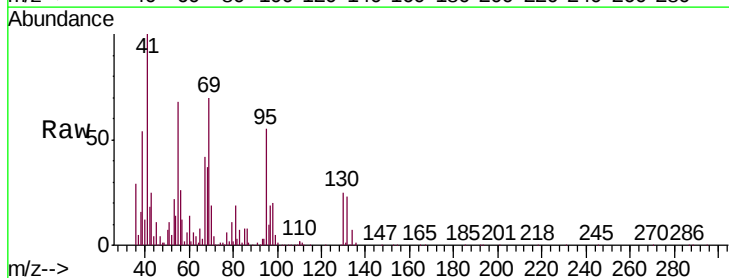
Tgt Ion: 69 Resp: 201484

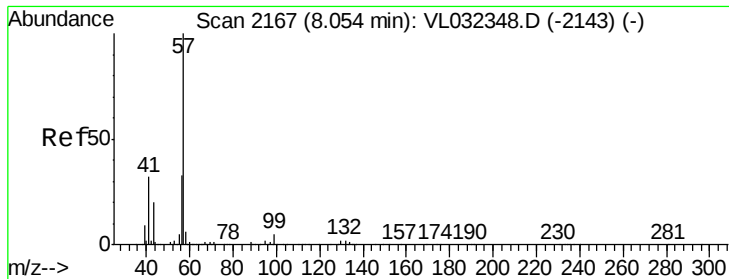
Ion Ratio Lower Upper

69 100

41 0.0 118.6 177.8#

100 0.0 23.4 35.2#





#44

2,2,4-Trimethylpentane

Concen: 2.786 ppbv

RT: 8.06 min Scan# 2170

Delta R.T. 0.01 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVI

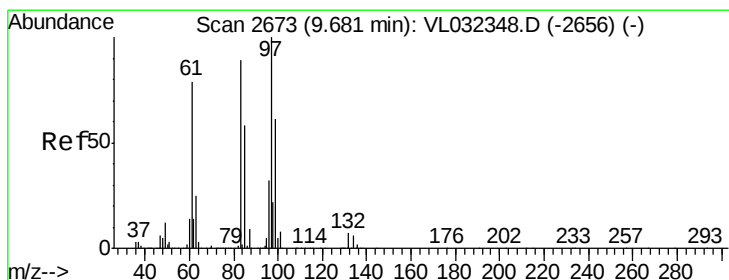
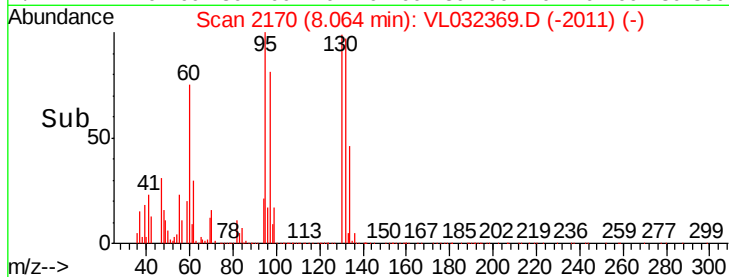
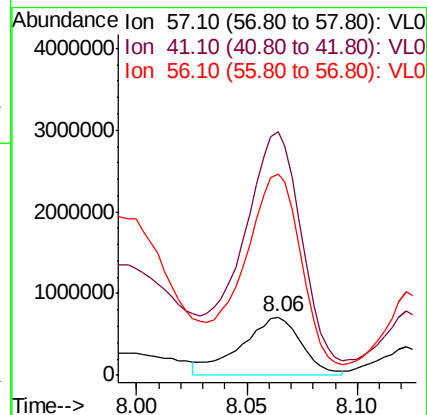
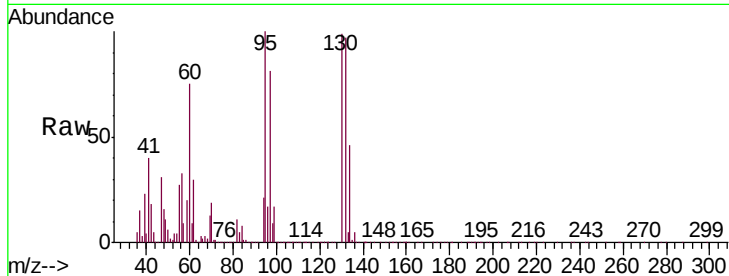
Tgt Ion: 57 Resp: 1333459

Ion Ratio Lower Upper

57 100

41 422.6 24.3 36.5#

56 333.9 25.7 38.5#



#47

1,1,2-Trichloroethane

Concen: 0.341 ppbv

RT: 9.79 min Scan# 2708

Delta R.T. 0.11 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Tgt Ion: 97 Resp: 41585

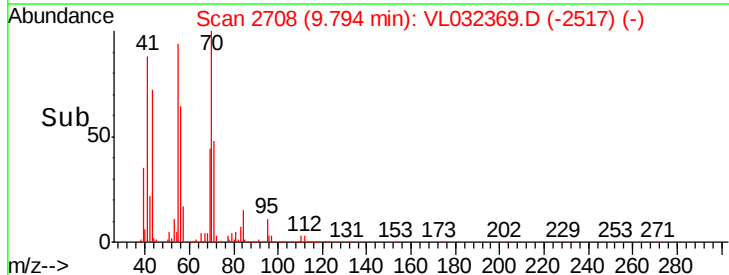
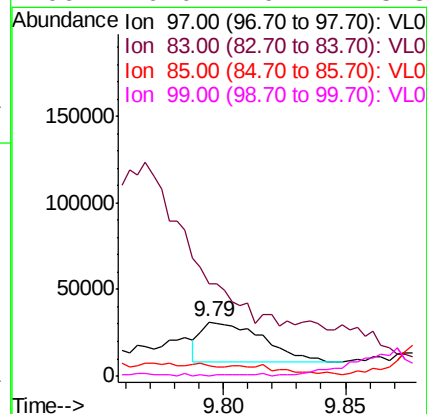
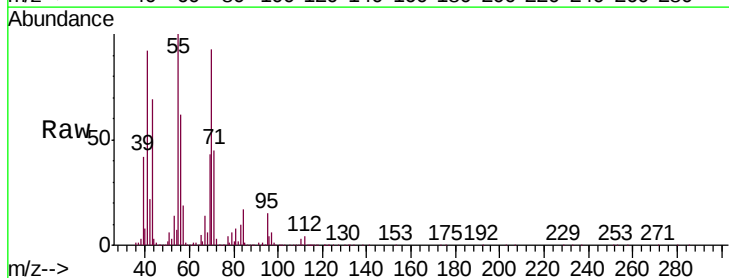
Ion Ratio Lower Upper

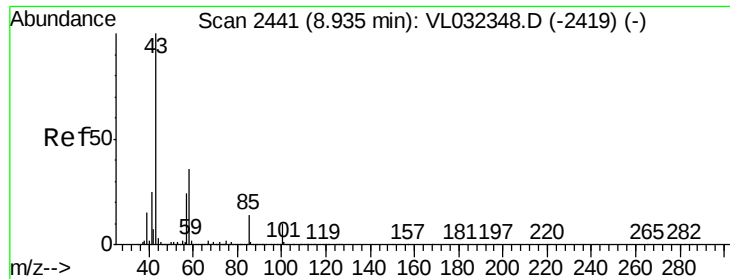
97 100

83 102.5 71.2 106.8

85 21.3 46.6 69.8#

99 0.0 49.2 73.8#





#50

4-Methyl-2-Pentanone

Concen: 14.845 ppbv

RT: 8.96 min Scan# 2448

Delta R.T. 0.02 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

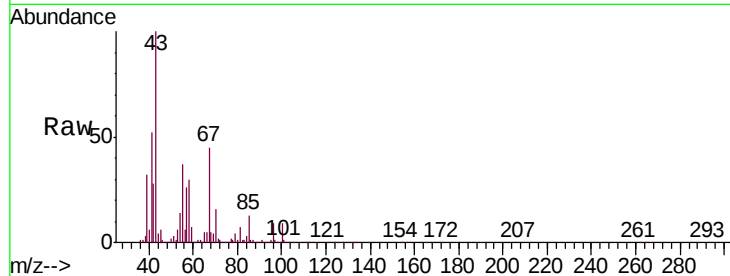
SS09-MIVI

Tgt Ion: 43 Resp: 4567755

Ion Ratio Lower Upper

43 100

58 23.7 28.9 43.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

8.96

1500000

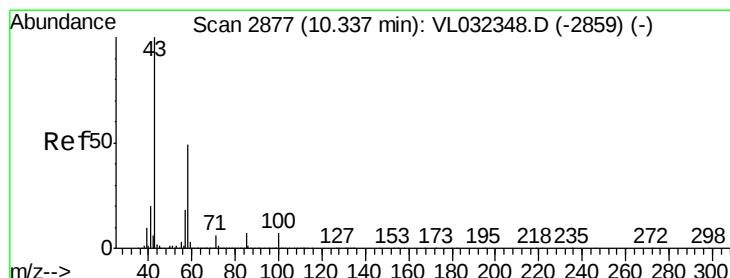
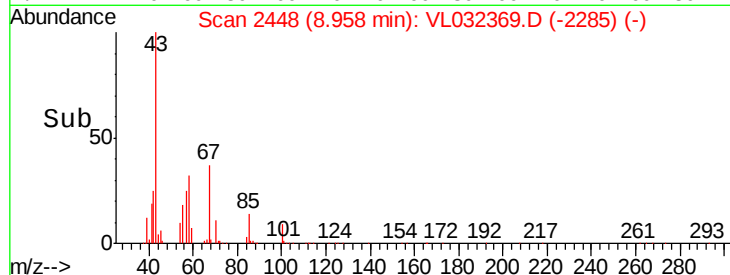
1000000

500000

0

Time-->

8.80 8.90 9.00



#51

2-Hexanone

Concen: 42.573 ppbv

RT: 10.35 min Scan# 2880

Delta R.T. 0.01 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

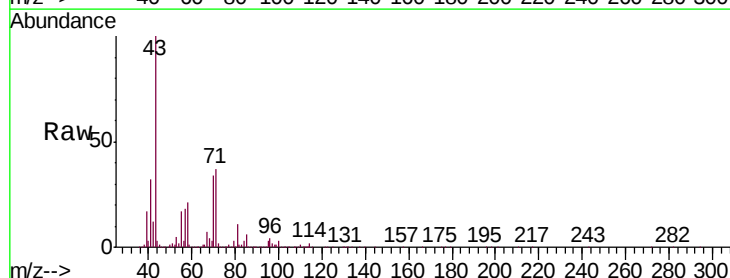
Tgt Ion: 43 Resp: 9199143

Ion Ratio Lower Upper

43 100

58 22.6 39.5 59.3#

98 0.0 0.3 0.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0

5000000

4000000

3000000

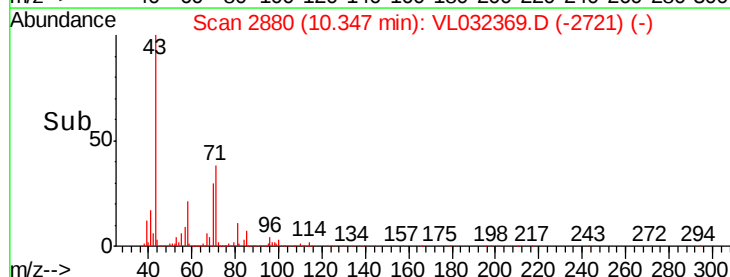
2000000

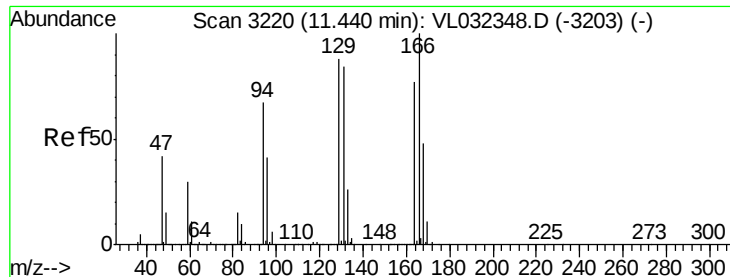
1000000

0

Time-->

10.30 10.35 10.40





#52

Tetrachloroethene

Concen: 29.940 ppbv

RT: 11.47 min Scan# 3230

Delta R.T. 0.03 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVI

Tgt Ion:164 Resp: 2343500

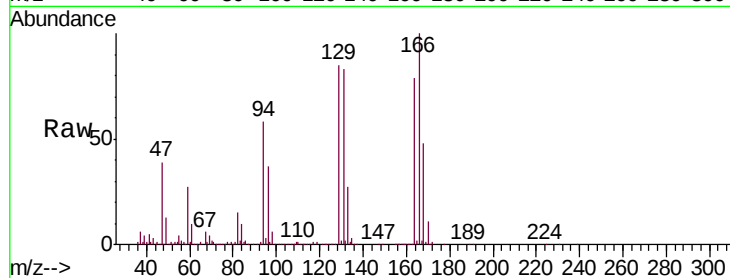
Ion Ratio Lower Upper

164 100

166 126.4 103.5 155.3

129 107.4 90.9 136.3

131 104.6 86.7 130.1

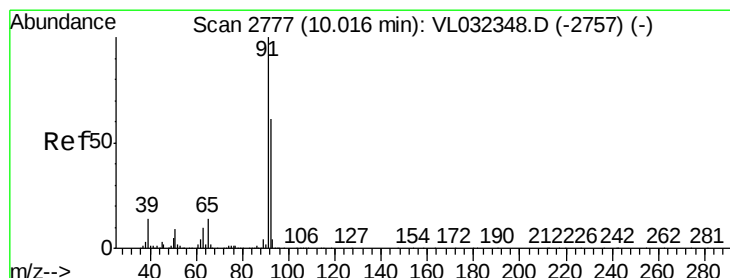
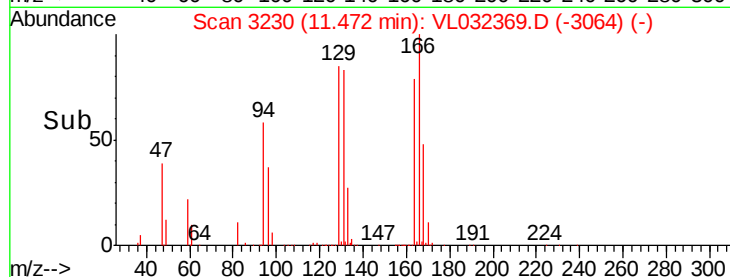
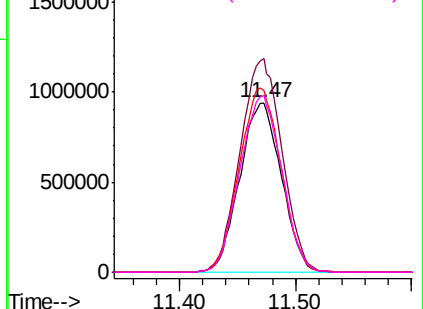


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 49.921 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. 0.03 min

Lab File: VL032369.D

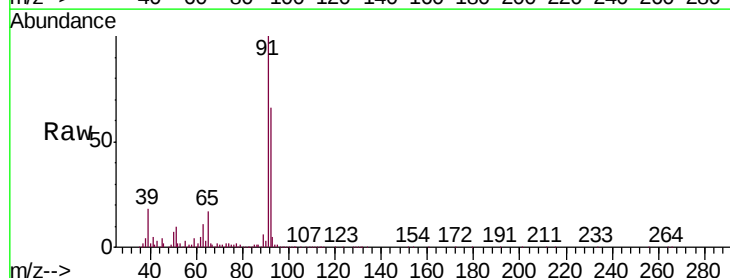
Acq: 16 Aug 2018 3:13

Tgt Ion: 91 Resp:14523776

Ion Ratio Lower Upper

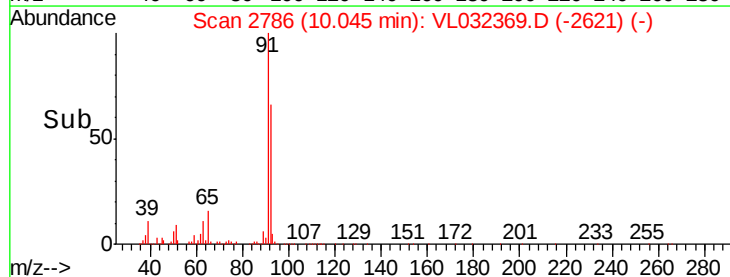
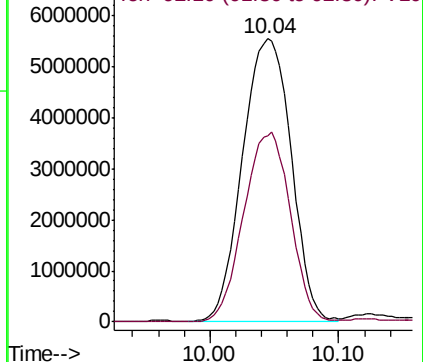
91 100

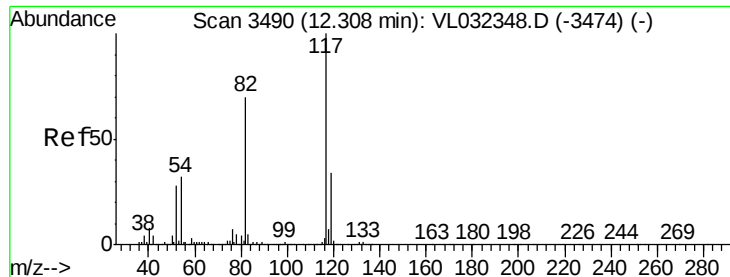
92 64.2 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

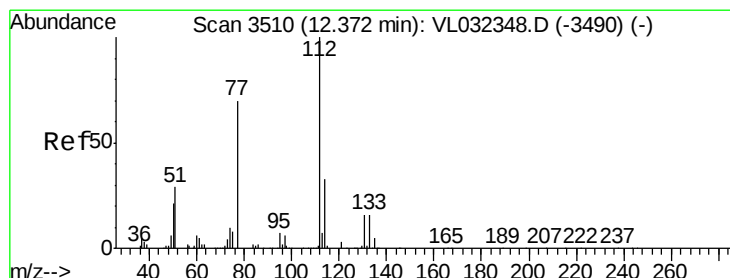
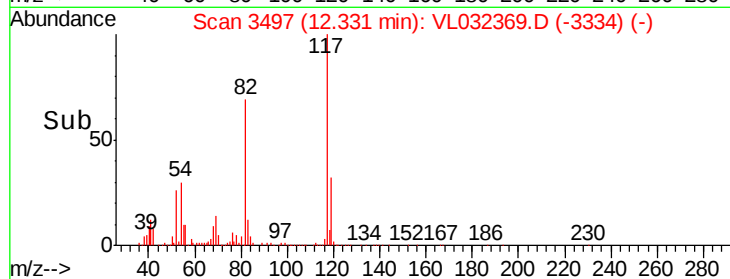
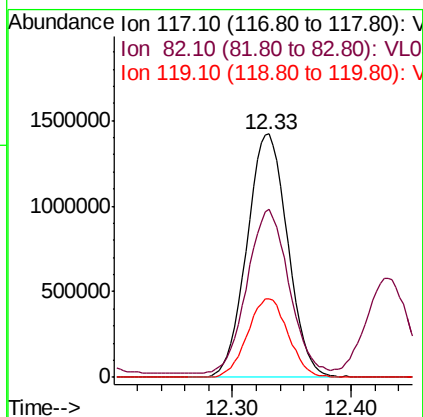
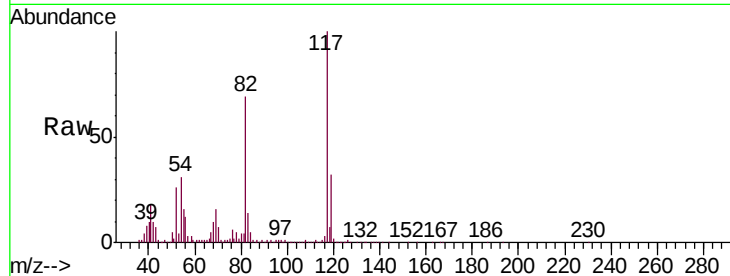




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.33 min Scan# 3497
Delta R.T. 0.02 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

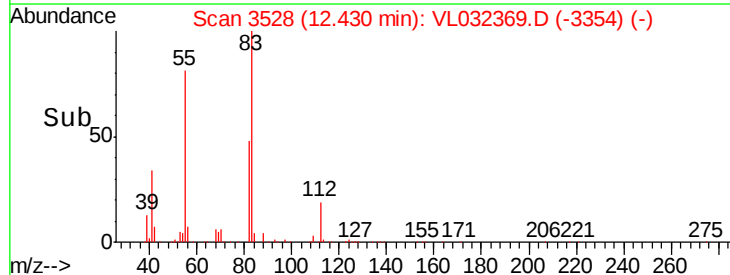
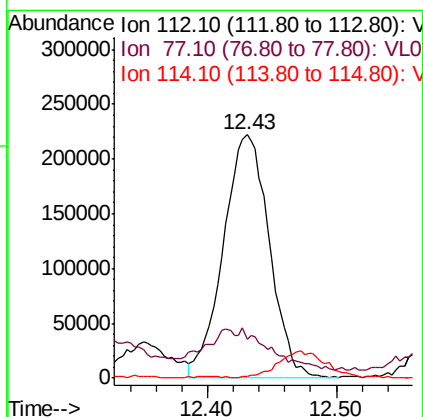
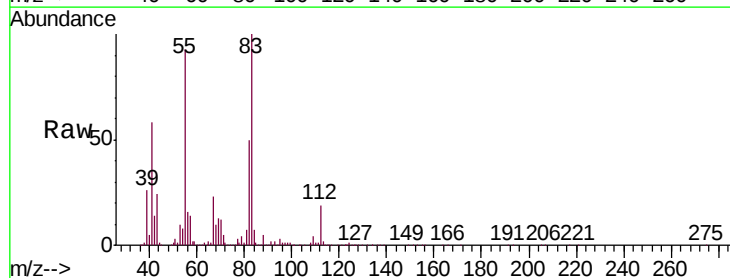
Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVI

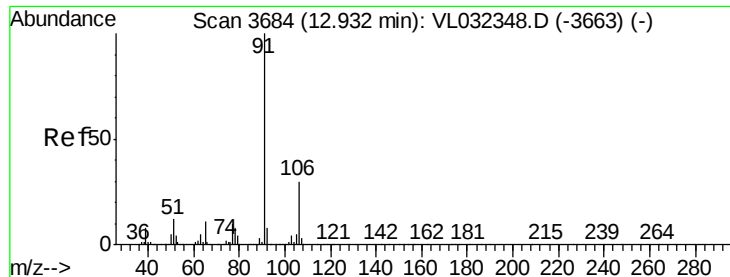
Tgt Ion:117 Resp: 3368595
Ion Ratio Lower Upper
117 100
82 70.0 55.1 82.7
119 32.3 46.0 69.0#



#57
Chlorobenzene
Concen: 2.157 ppbv
RT: 12.43 min Scan# 3528
Delta R.T. 0.06 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

Tgt Ion:112 Resp: 547082
Ion Ratio Lower Upper
112 100
77 12.0 56.6 84.8#
114 0.0 29.4 36.0#





#58

Ethyl Benzene

Concen: 7.885 ppbv

RT: 12.95 min Scan# 3690

Delta R.T. 0.02 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

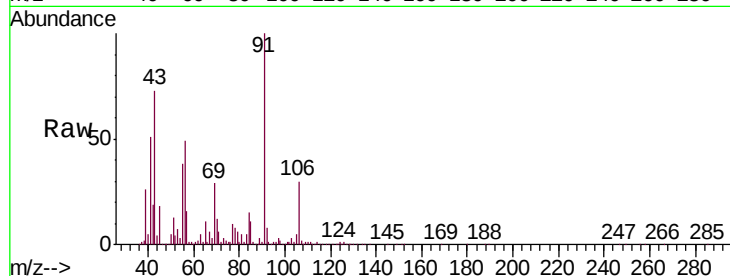
SS09-MIVI

Tgt Ion: 91 Resp: 3195557

Ion Ratio Lower Upper

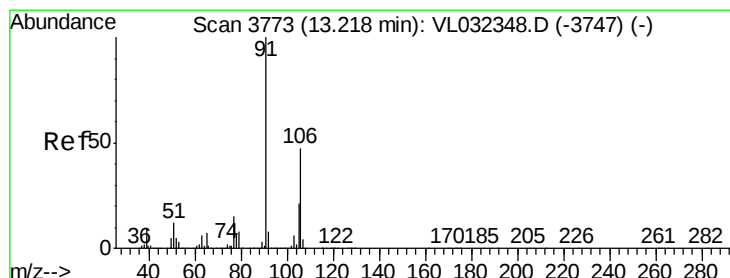
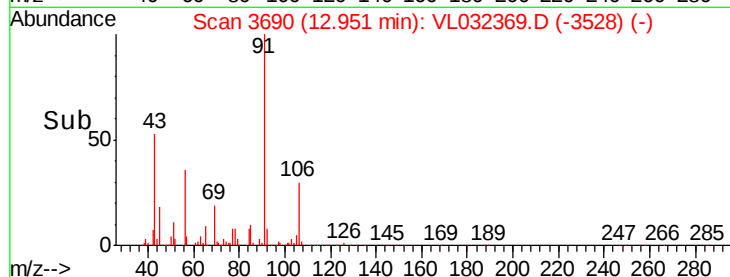
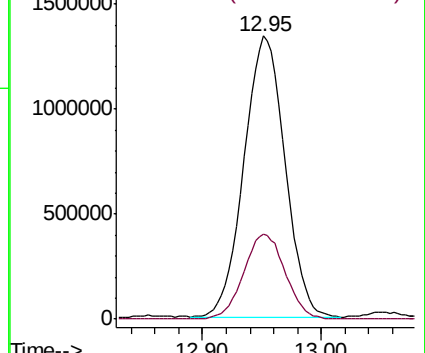
91 100

106 30.1 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 17.886 ppbv

RT: 13.21 min Scan# 3771

Delta R.T. -0.01 min

Lab File: VL032369.D

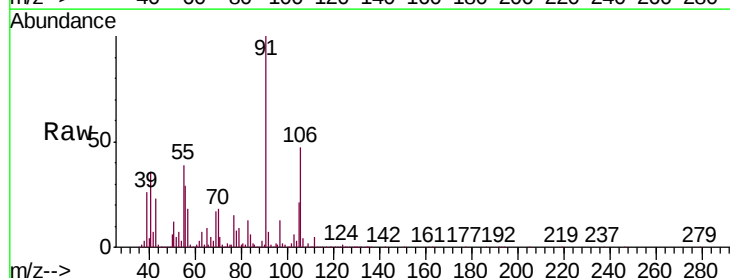
Acq: 16 Aug 2018 3:13

Tgt Ion: 91 Resp: 6157728

Ion Ratio Lower Upper

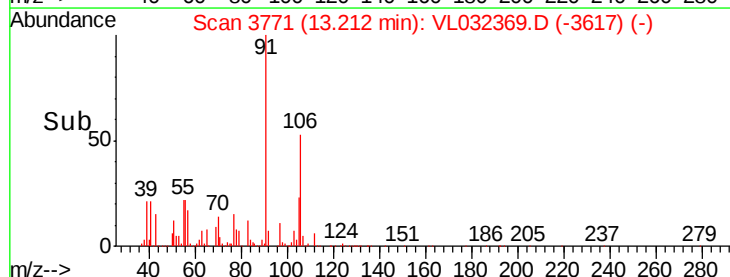
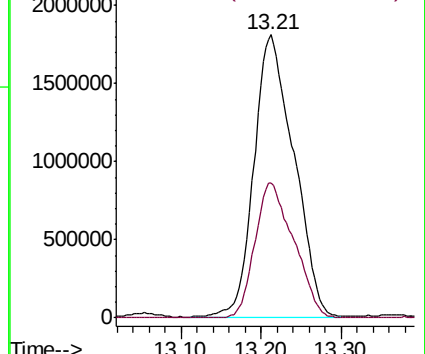
91 100

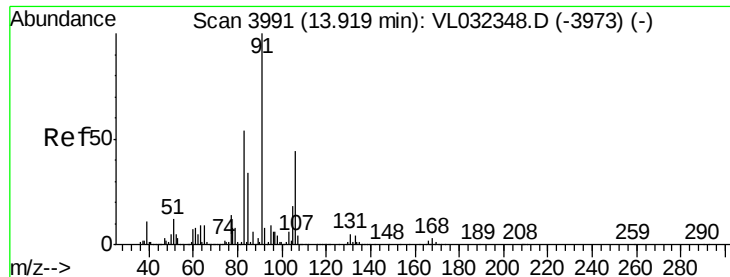
106 46.6 37.0 55.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

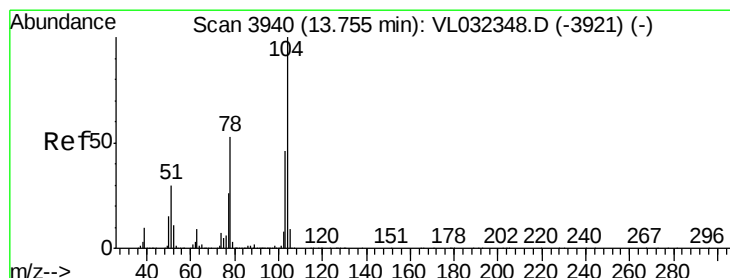
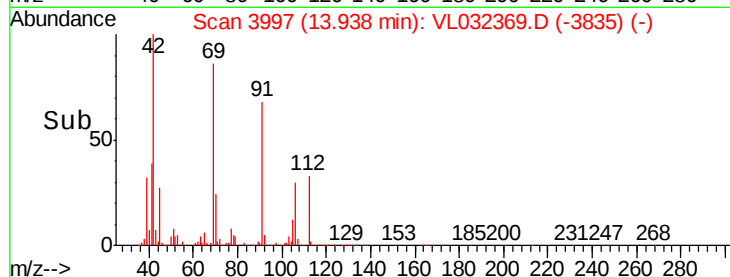
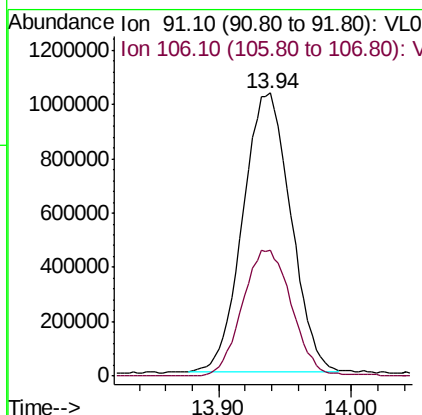
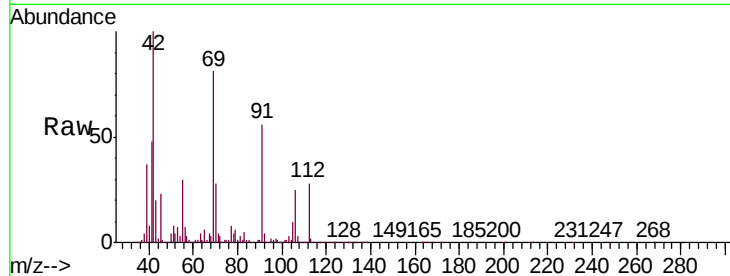




#60
o-Xylene
Concen: 7.637 ppbv
RT: 13.94 min Scan# 3997
Delta R.T. 0.02 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

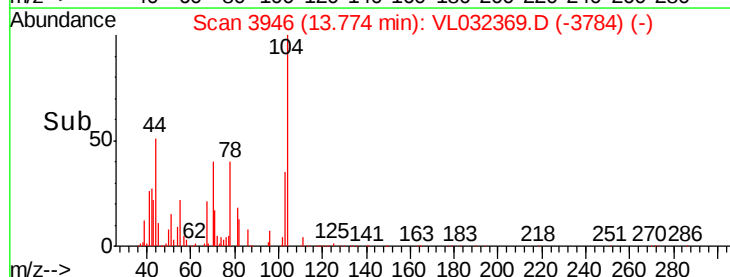
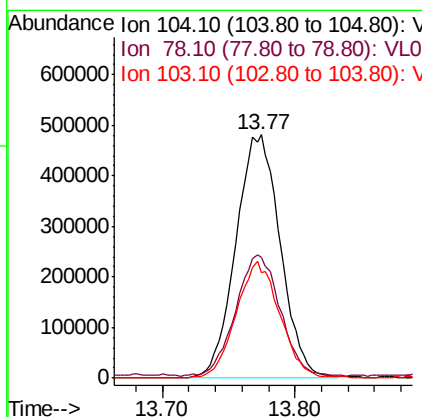
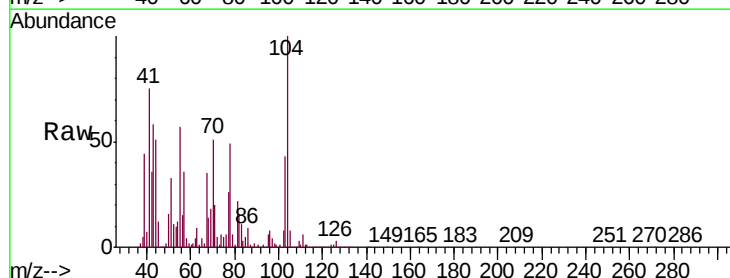
Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVI

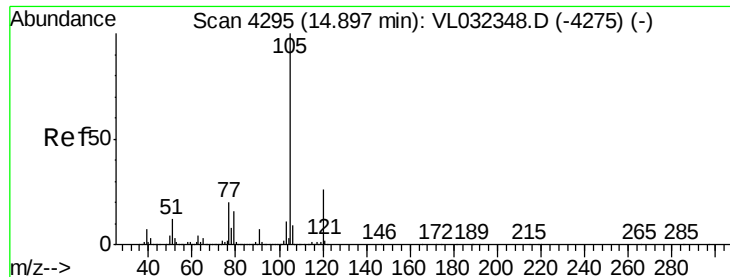
Tgt Ion: 91 Resp: 2584239
Ion Ratio Lower Upper
91 100
106 46.8 22.3 66.8



#61
Styrene
Concen: 4.714 ppbv
RT: 13.77 min Scan# 3946
Delta R.T. 0.02 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

Tgt Ion: 104 Resp: 1114805
Ion Ratio Lower Upper
104 100
78 50.5 42.6 64.0
103 47.1 38.0 57.0





#62

Isopropylbenzene

Concen: 1.013 ppbv

RT: 14.91 min Scan# 4300

Delta R.T. 0.02 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

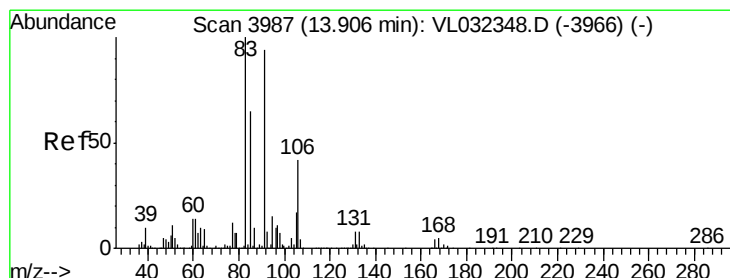
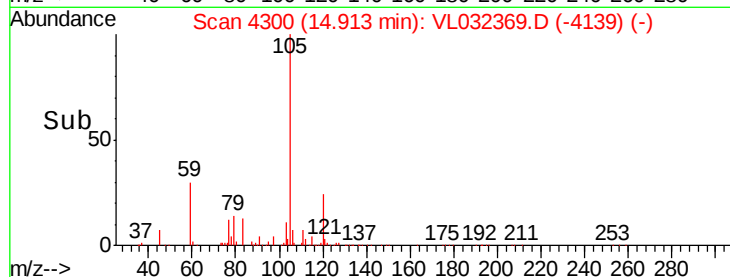
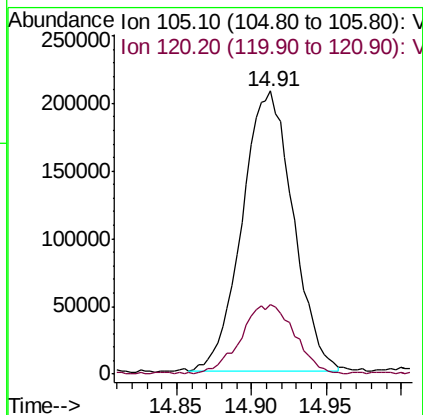
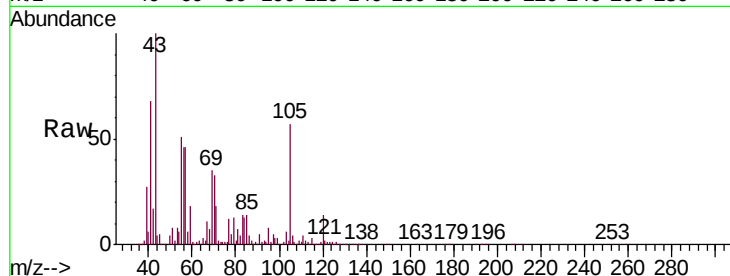
SS09-MIVI

Tgt Ion:105 Resp: 487788

Ion Ratio Lower Upper

105 100

120 26.5 20.6 30.8



#63

1,1,2,2-Tetrachloroethane

Concen: 0.522 ppbv

RT: 13.94 min Scan# 3999

Delta R.T. 0.04 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

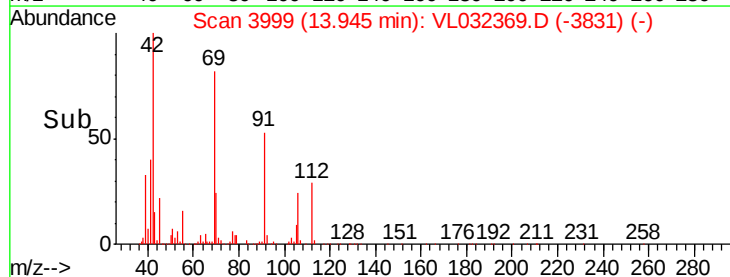
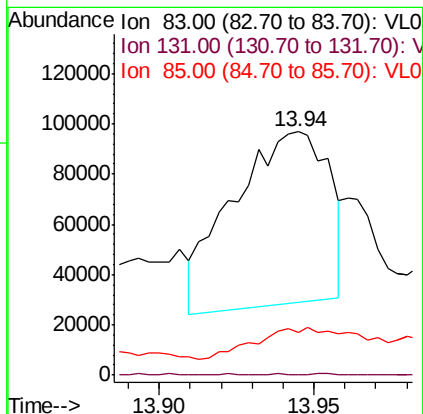
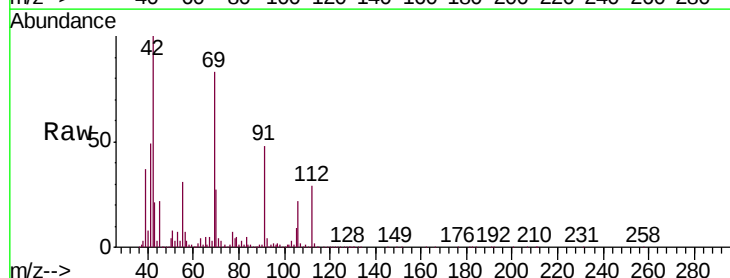
Tgt Ion: 83 Resp: 148591

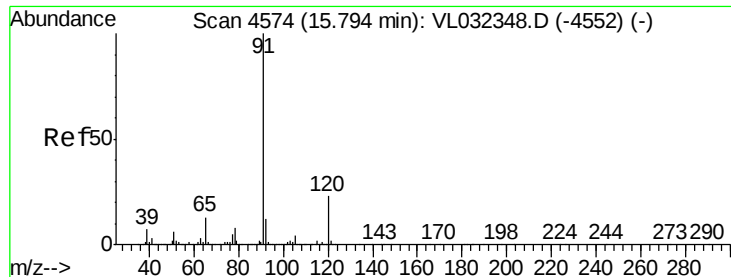
Ion Ratio Lower Upper

83 100

131 0.0 4.3 12.8#

85 0.0 32.4 97.2#

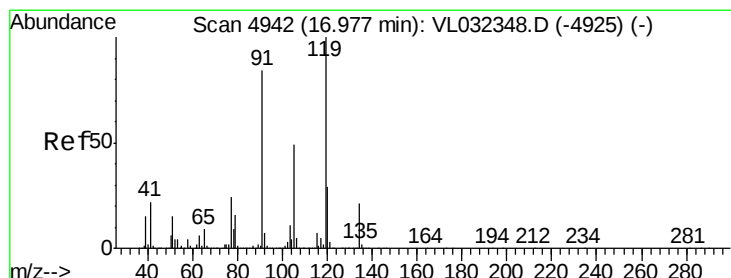
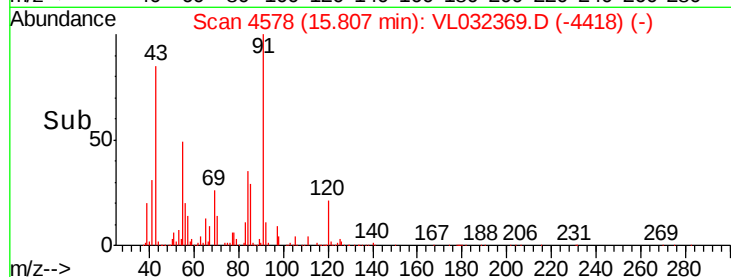
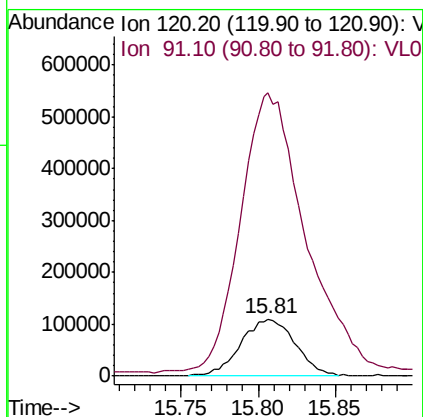
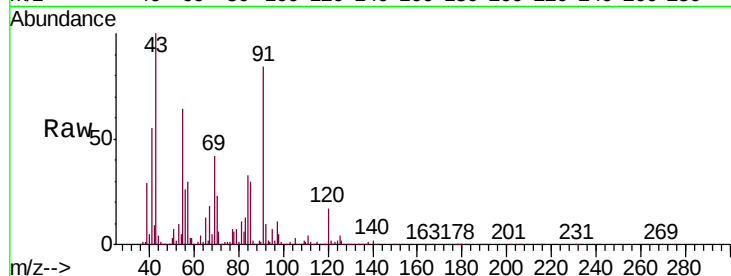




#64
n-propylbenzene
Concen: 2.111 ppbv
RT: 15.81 min Scan# 4578
Delta R.T. 0.01 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

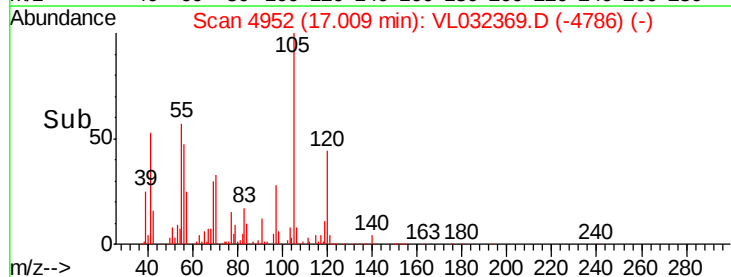
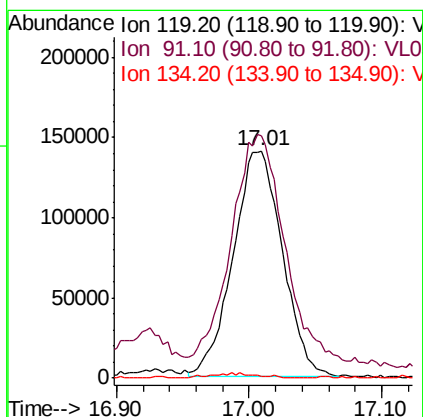
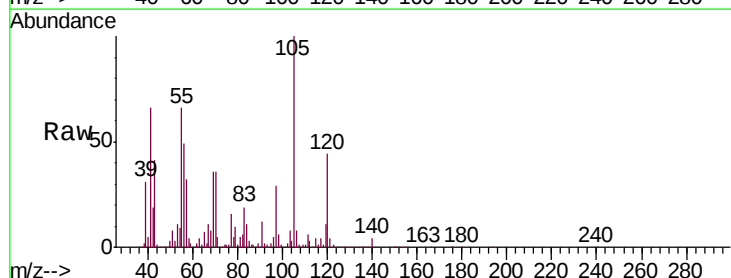
Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVI

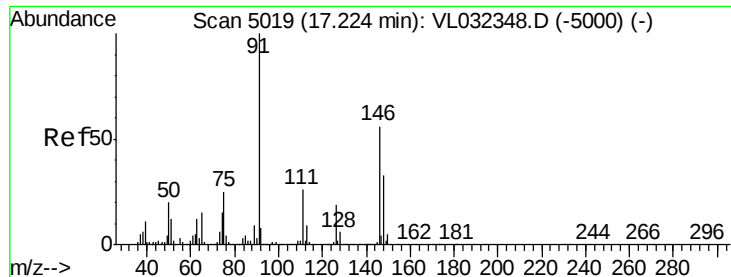
Tgt Ion:120 Resp: 263160
Ion Ratio Lower Upper
120 100
91 605.6 382.2 573.2#



#65
tert-Butylbenzene
Concen: 0.885 ppbv
RT: 17.01 min Scan# 4952
Delta R.T. 0.03 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

Tgt Ion:119 Resp: 364328
Ion Ratio Lower Upper
119 100
91 118.4 67.4 101.0#
134 2.4 15.8 23.6#

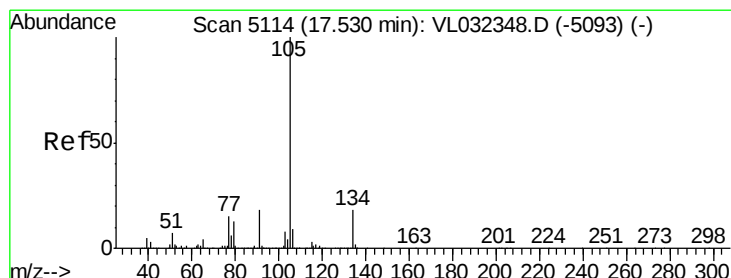
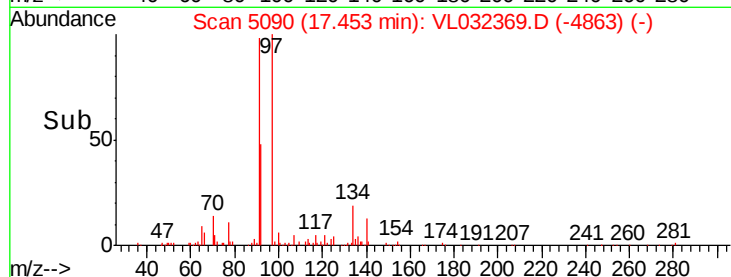
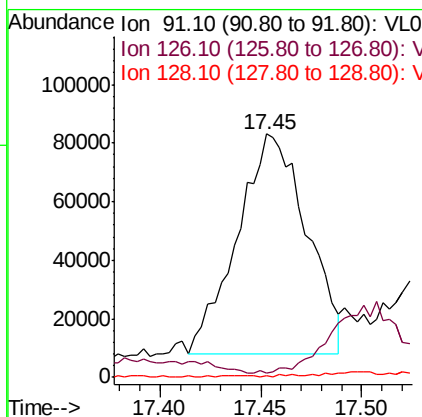
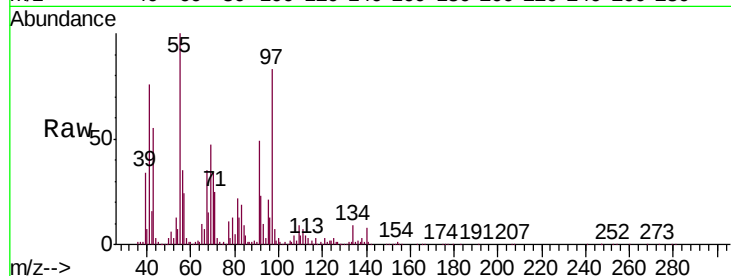




#66
Benzyl Chloride
Concen: 0.734 ppbv
RT: 17.45 min Scan# 5090
Delta R.T. 0.23 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

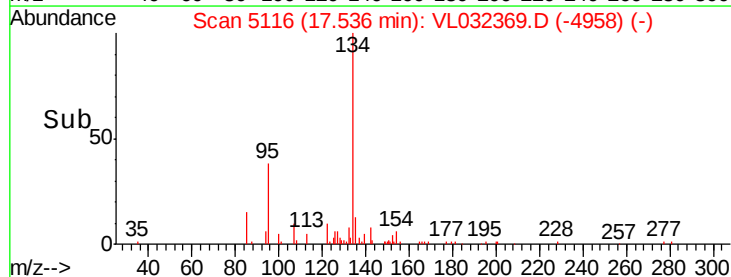
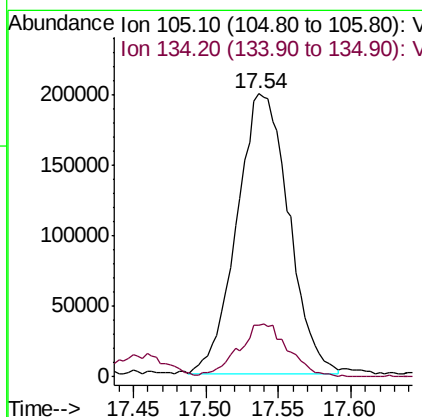
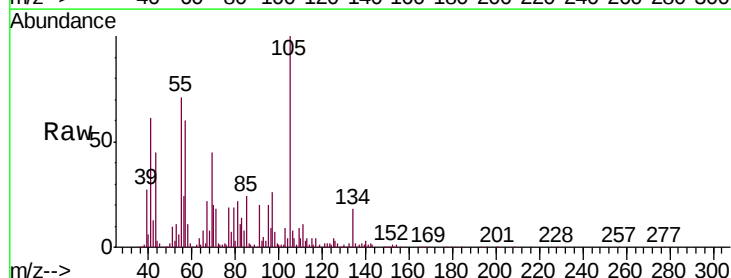
Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVI

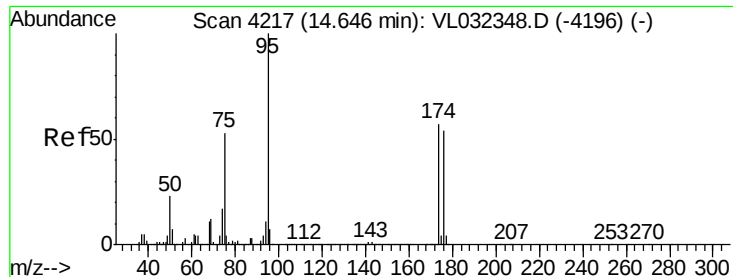
Tgt Ion	Ratio	Lower	Upper
91	100		
126	9.8	14.2	21.4#
128	0.6	4.5	6.7#



#67
sec-Butylbenzene
Concen: 0.809 ppbv
RT: 17.54 min Scan# 5116
Delta R.T. 0.01 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

Tgt Ion	Ratio	Lower	Upper
105	100		
134	18.4	14.4	21.6

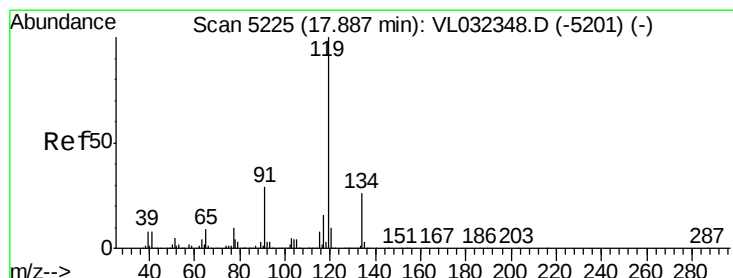
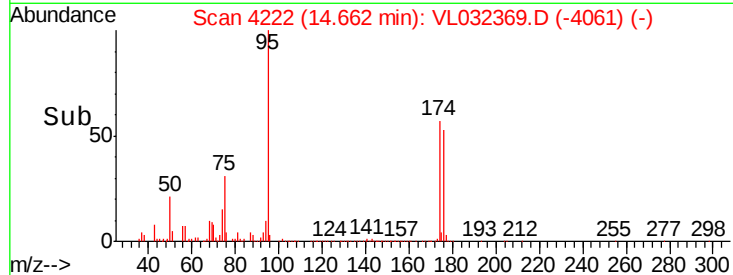
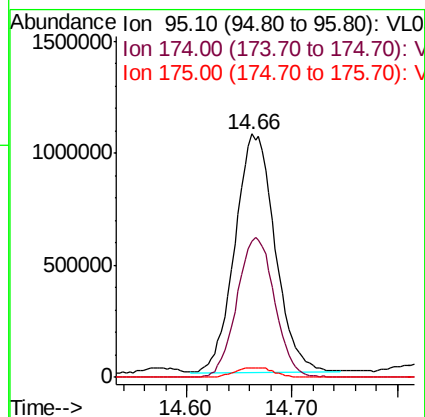
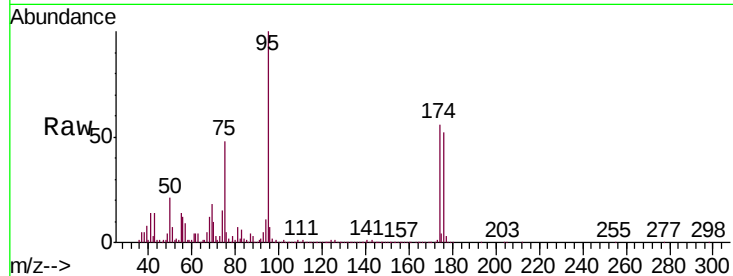




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.953 ppbv
 RT: 14.66 min Scan# 4222
 Delta R.T. 0.02 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

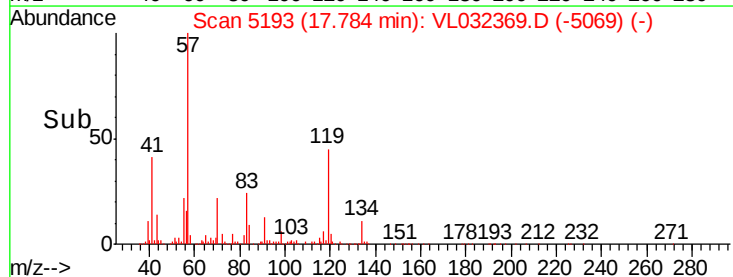
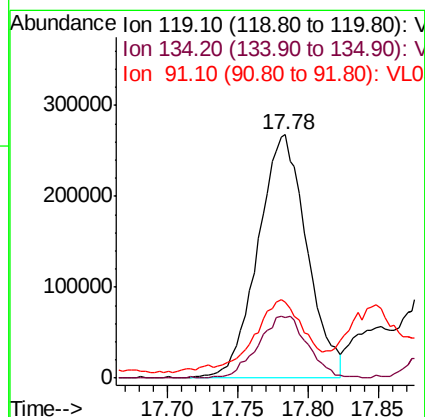
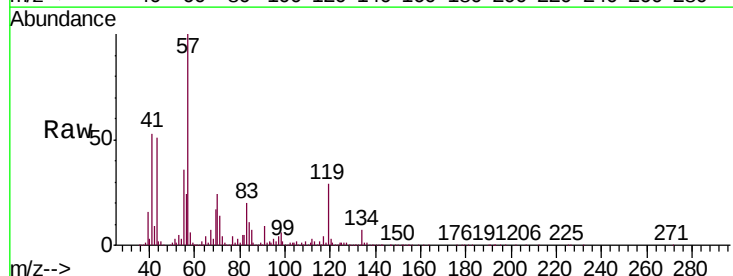
Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVI

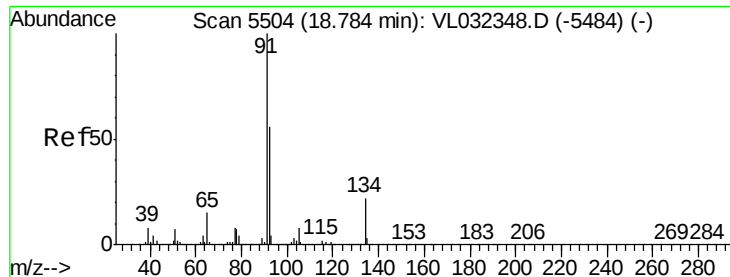
Tgt Ion: 95 Resp: 2814819
 Ion Ratio Lower Upper
 95 100
 174 55.2 46.2 69.4
 175 4.0 3.4 5.0



#69
 p-Isopropyltoluene
 Concen: 1.371 ppbv
 RT: 17.78 min Scan# 5193
 Delta R.T. -0.10 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Tgt Ion: 119 Resp: 641869
 Ion Ratio Lower Upper
 119 100
 134 26.0 20.4 30.6
 91 32.3 23.6 35.4

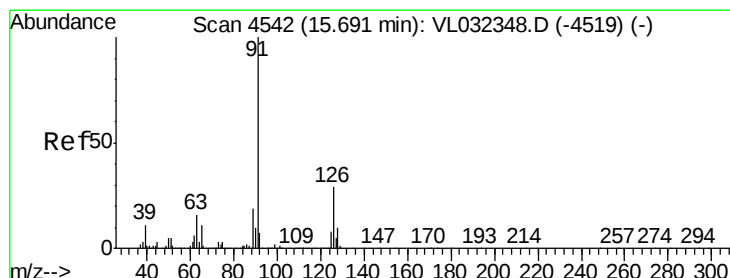
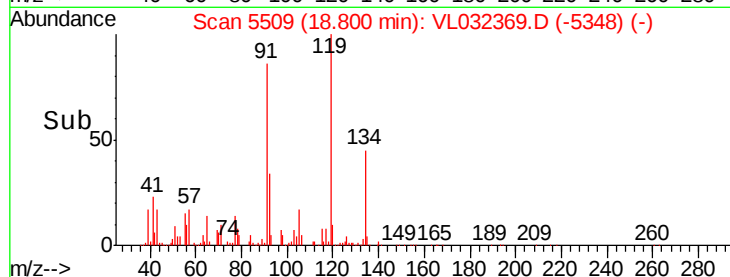
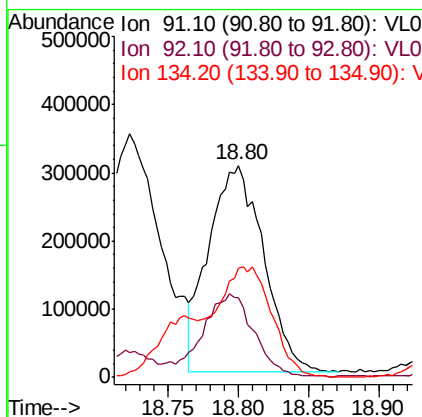
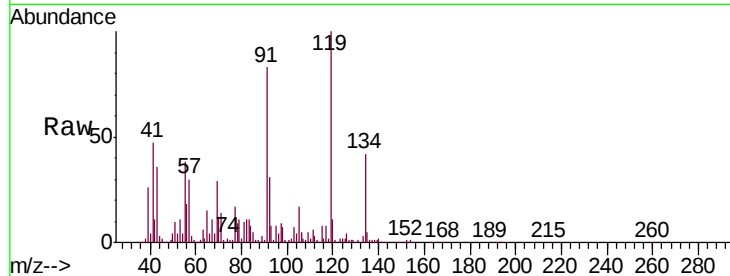




#70
n-Butylbenzene
Concen: 1.608 ppbv
RT: 18.80 min Scan# 5509
Delta R.T. 0.02 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

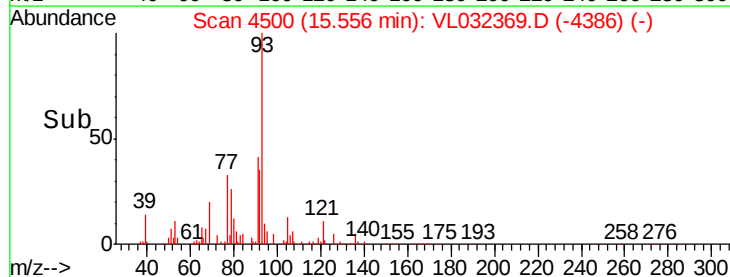
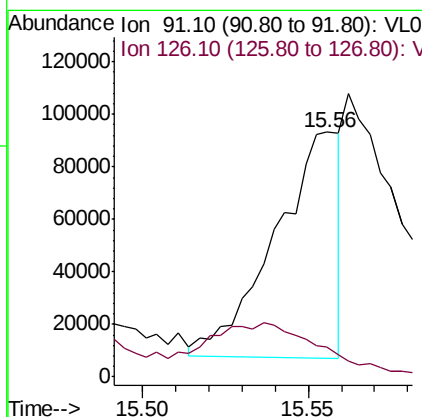
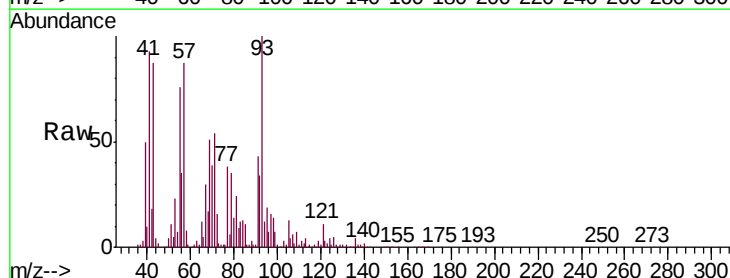
Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVI

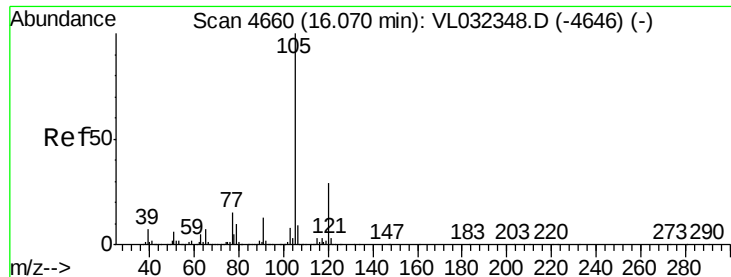
Tgt Ion: 91 Resp: 825679
Ion Ratio Lower Upper
91 100
92 38.5 43.9 65.9#
134 75.5 17.3 25.9#



#71
2-Chlorotoluene
Concen: 0.316 ppbv
RT: 15.56 min Scan# 4500
Delta R.T. -0.13 min
Lab File: VL032369.D
Acq: 16 Aug 2018 3:13

Tgt Ion: 91 Resp: 117827
Ion Ratio Lower Upper
91 100
126 39.6 11.8 47.2





#72

4-Ethyltoluene

Concen: 3.075 ppbv

RT: 16.09 min Scan# 4665

Delta R.T. 0.02 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVI

Tgt Ion:105 Resp: 1160524

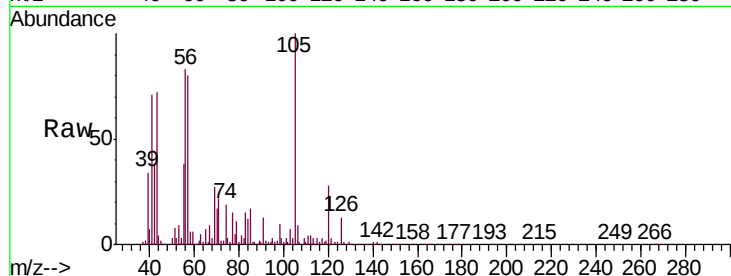
Ion Ratio Lower Upper

105 100

120 29.9 23.4 35.0

91 12.0 10.0 15.0

77 14.6 11.3 16.9

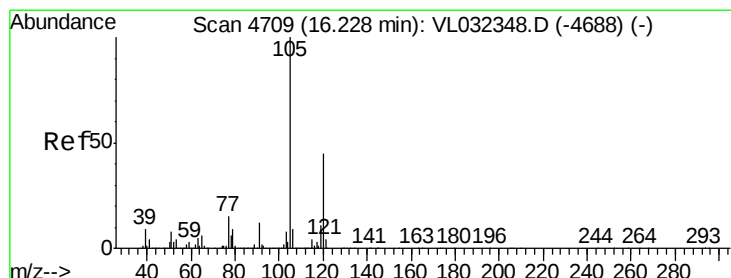
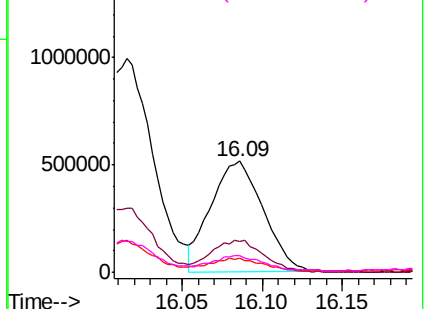
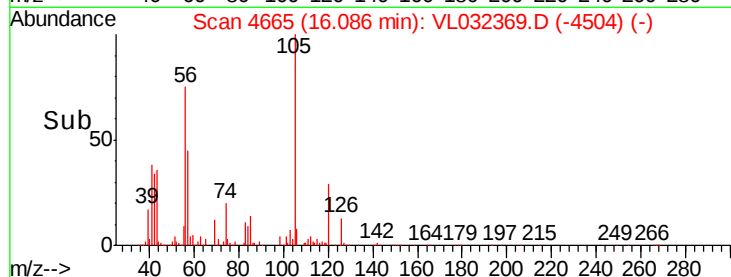


Abundance Ion 105.10 (104.80 to 105.80): V

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: 2.917 ppbv

RT: 16.24 min Scan# 4713

Delta R.T. 0.01 min

Lab File: VL032369.D

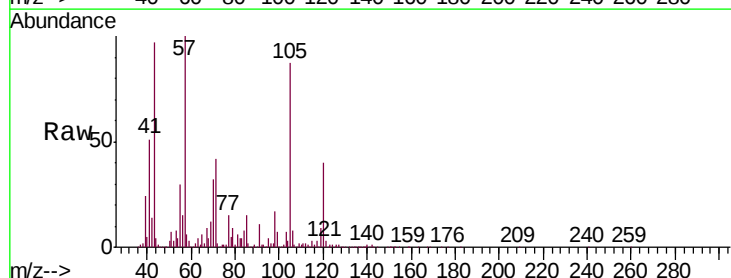
Acq: 16 Aug 2018 3:13

Tgt Ion:105 Resp: 1059005

Ion Ratio Lower Upper

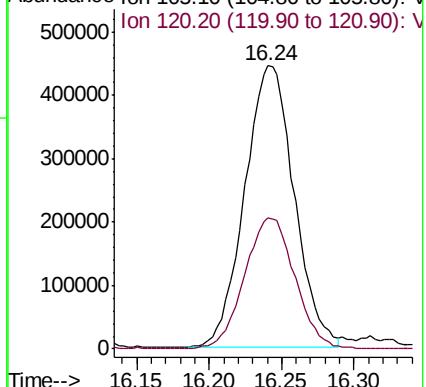
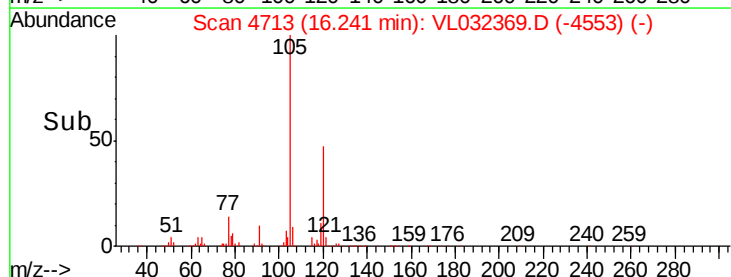
105 100

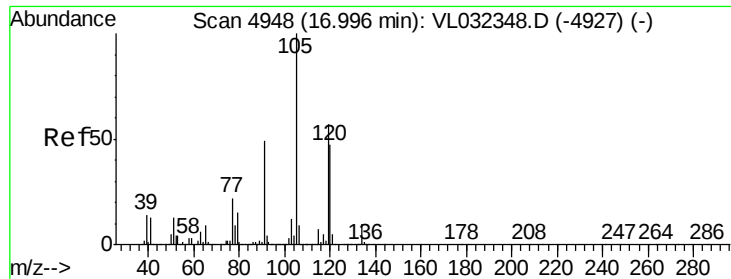
120 46.4 36.3 54.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

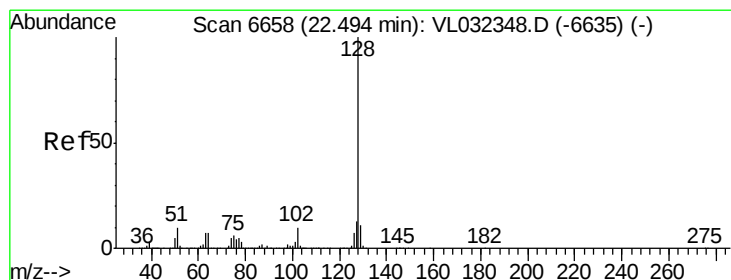
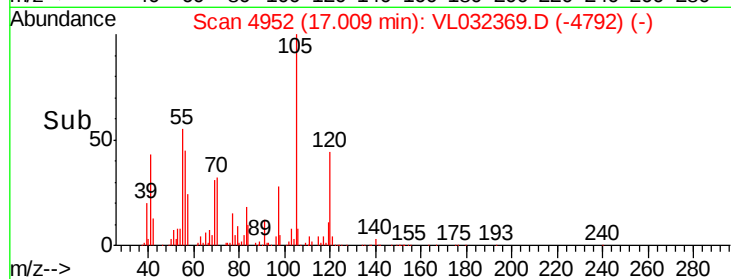
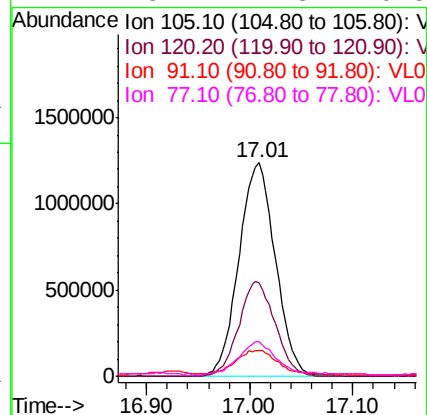
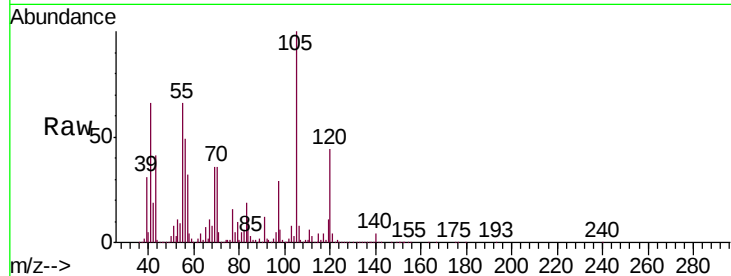




#74
 1,2,4-Trimethylbenzene
 Concen: 7.851 ppbv
 RT: 17.01 min Scan# 4952
 Delta R.T. 0.01 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

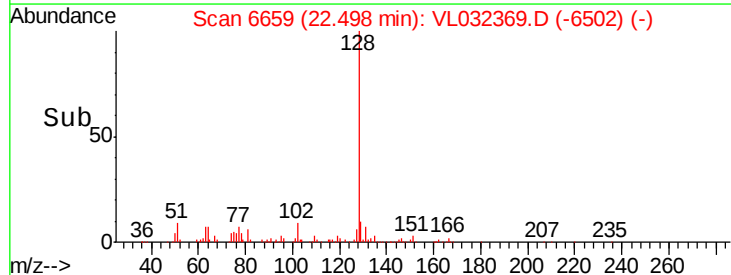
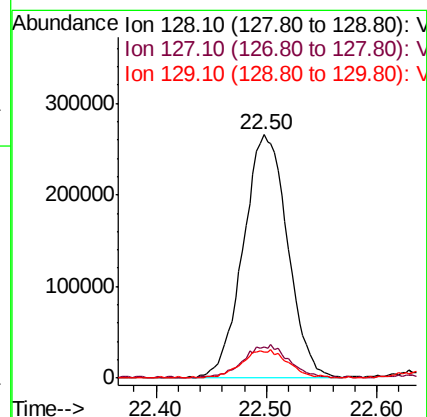
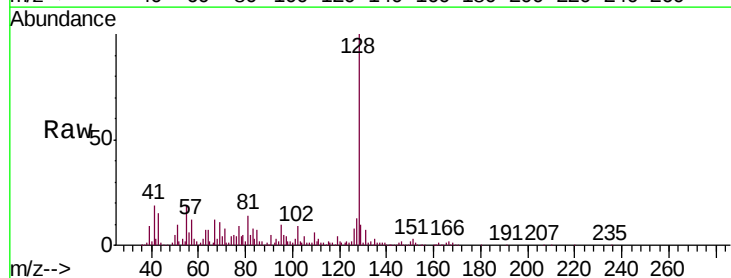
Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVI

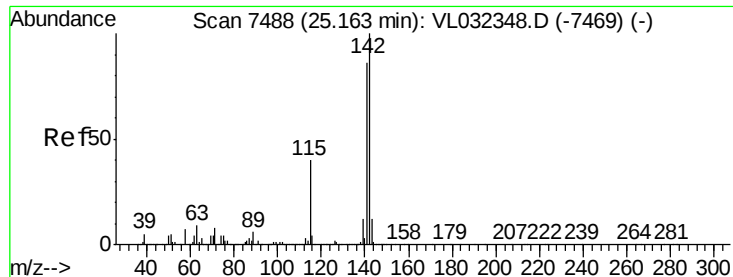
Tgt Ion:105 Resp: 3032603
 Ion Ratio Lower Upper
 105 100
 120 43.9 37.6 56.4
 91 11.3 39.9 59.9#
 77 15.4 17.8 26.8#



#79
 Naphthalene
 Concen: 2.294 ppbv
 RT: 22.50 min Scan# 6659
 Delta R.T. 0.00 min
 Lab File: VL032369.D
 Acq: 16 Aug 2018 3:13

Tgt Ion:128 Resp: 734582
 Ion Ratio Lower Upper
 128 100
 127 12.3 10.3 15.5
 129 10.4 8.6 13.0





#80

Naphthalene, 2-methyl-

Concen: 1.671 ppbv

RT: 25.48 min Scan# 7588

Delta R.T. 0.32 min

Lab File: VL032369.D

Acq: 16 Aug 2018 3:13

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVI

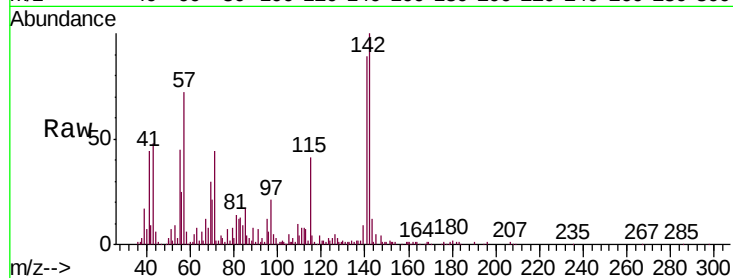
Tgt Ion:142 Resp: 128783

Ion Ratio Lower Upper

142 100

141 86.4 66.7 100.1

115 40.8 31.0 46.6



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

