

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071218\
 Data File : VL032240.D
 Acq On : 13 Jul 2018 6:57
 Operator : SY/AP
 Sample : J3753-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Quant Time: Jul 13 07:21:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 04:25:14 2018
 QLast Update : Fri Jul 13 04:25:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1721277	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3770718	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	4392029	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3382585	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	43643	0.176	ppbv	90
3) Chlorodifluoromethane	3.06	51	139934	0.662	ppbv #	83
4) Chloromethane	3.22	50	27090	0.225	ppbv	94
5) Vinyl Chloride	3.35	62	2477	0.021	ppbv #	1
7) Chloroethane	3.66	64	53584	1.312	ppbv	100
9) Propene	3.09	41	171746	1.905	ppbv	93
10) Heptane	8.33	43	242944	0.949	ppbv	99
11) Trichlorofluoromethane	4.07	101	79753	0.336	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.62	101	285298	1.884	ppbv	97
13) Ethanol	3.74	45	12312757	473.080	ppbv	98
15) Acetone	3.96	43	7695792	38.529	ppbv	98
16) 1,3-Butadiene	3.45	39	190364	1.886	ppbv #	8
17) tert-Butyl alcohol	4.46	59	1112372	11.928	ppbv	98
18) 1,1-Dichloroethene	4.42	96	118448	1.681	ppbv	98
19) Isopropyl Alcohol	4.12	45	7381046	56.277	ppbv	99
20) Methylene Chloride	4.48	84	160086	2.365	ppbv	95
21) Allyl Chloride	4.48	41	118084	1.010	ppbv #	20
22) trans-1,2-Dichloroethene	5.04	96	88784	1.324	ppbv	98
23) Vinyl Acetate	5.22	43	685926	2.065	ppbv #	79
24) 1,1-Dichloroethane	5.16	63	2524789	10.825	ppbv	98
25) Ethyl Acetate	5.85	43	494999	1.252	ppbv #	86
26) Hexane	5.86	57	335831	1.863	ppbv #	72
29) Chloroform	5.93	83	17372	0.062	ppbv	96
30) Cyclohexane	7.33	84	83855	0.527	ppbv	89
31) cis-1,2-Dichloroethene	5.72	61	26158	0.145	ppbv #	79
32) 1,1,1-Trichloroethane	6.70	97	15188168	56.231	ppbv	95
34) 2-Butanone	5.41	43	1690792	6.581	ppbv	99
36) Benzene	7.09	78	167170	0.446	ppbv #	90
37) 1,2-Dichloroethane	6.70	62	1209290	5.894	ppbv #	1
39) 1,2-Dichloropropane	7.38	63	1050905	7.057	ppbv #	26
40) 1,4-Dioxane	8.05	88	1366	0.027	ppbv #	1
41) Tetrahydrofuran	6.23	42	36085	0.251	ppbv #	10
42) Bromodichloromethane	8.01	83	7160	0.025	ppbv #	36
43) Methyl Methacrylate	8.22	69	7266	0.050	ppbv #	1
44) 2,2,4-Trimethylpentane	8.08	57	1569881	2.436	ppbv	95
50) 4-Methyl-2-Pentanone	8.96	43	317067	0.713	ppbv	92
51) 2-Hexanone	10.36	43	97434	0.262	ppbv #	86
52) Tetrachloroethene	11.47	164	6278	0.045	ppbv #	12
53) Toluene	10.04	91	2303666	5.200	ppbv	100
57) Chlorobenzene	12.39	112	19523	0.053	ppbv #	22
58) Ethyl Benzene	12.96	91	738791	1.155	ppbv	100

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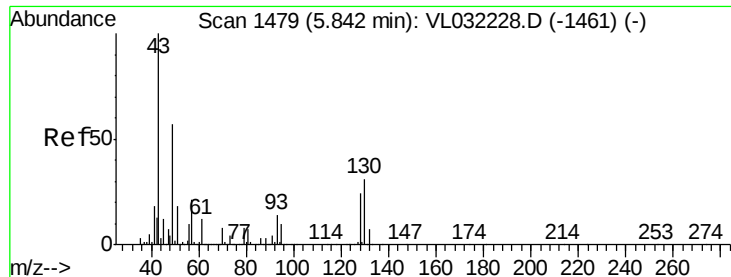
Instrument :
 MSVOA_L
 ClientSampleId :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

59) m/p-Xylene	13.22	91	1376229	2.615	ppbv #	31
60) o-Xylene	13.94	91	890041	1.714	ppbv	99
61) Styrene	13.78	104	45777	0.118	ppbv #	76
62) Isopropylbenzene	14.92	105	31083	0.043	ppbv #	50
64) n-propylbenzene	15.81	120	20929	0.114	ppbv #	1
65) tert-Butylbenzene	17.02	119	108656	0.178	ppbv #	71
66) Benzyl Chloride	17.01	91	111494	0.361	ppbv #	67
69) p-Isopropyltoluene	17.91	119	1819204	2.622	ppbv	99
70) n-Butylbenzene	18.83	91	28340	0.037	ppbv #	1
71) 2-Chlorotoluene	15.82	91	238556	0.416	ppbv #	46
72) 4-Ethyltoluene	16.10	105	292636	0.502	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	234630	0.433	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	963368	1.739	ppbv #	74
75) 1,3-Dichlorobenzene	17.26	146	617966	1.870	ppbv #	36
76) 1,4-Dichlorobenzene	17.26	146	617966	1.909	ppbv #	38
79) Naphthalene	22.52	128	62743	0.169	ppbv #	96
80) Naphthalene,2-methyl-	25.18	142	59144	0.498	ppbv	94
81) 1,2,4-Trichlorobenzene	22.25	180	6711	0.036	ppbv #	1

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. 0.00 min

Lab File: VL032240.D

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MID

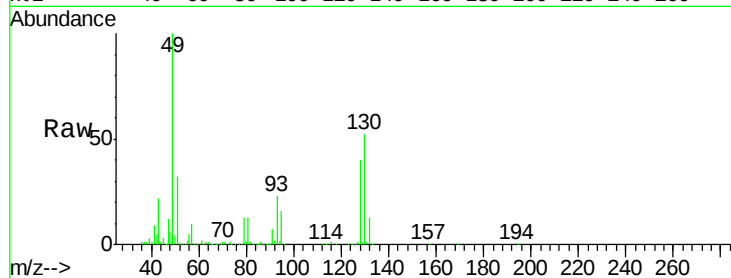
Tgt Ion: 49 Resp: 1721277

Ion Ratio Lower Upper

49 100

128 41.0 20.9 62.8

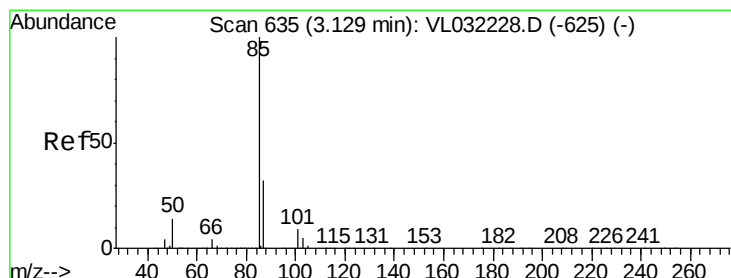
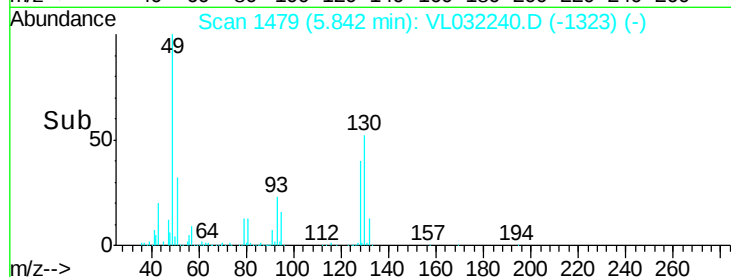
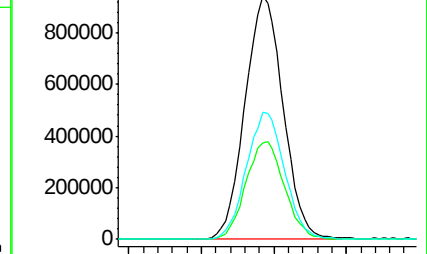
130 52.7 27.0 81.0



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: 0.176 ppbv

RT: 3.13 min Scan# 635

Delta R.T. 0.00 min

Lab File: VL032240.D

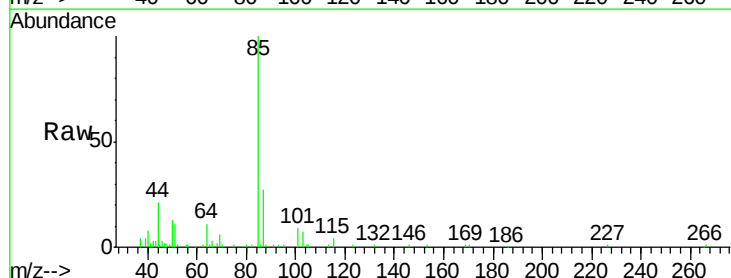
Acq: 13 Jul 2018 6:57

Tgt Ion: 85 Resp: 43643

Ion Ratio Lower Upper

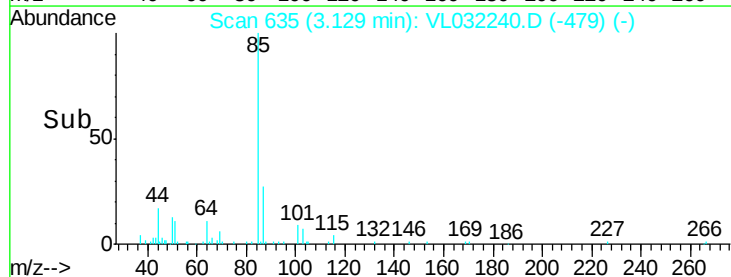
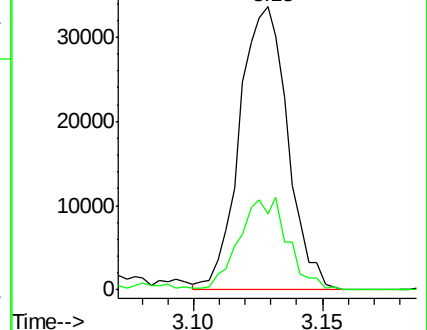
85 100

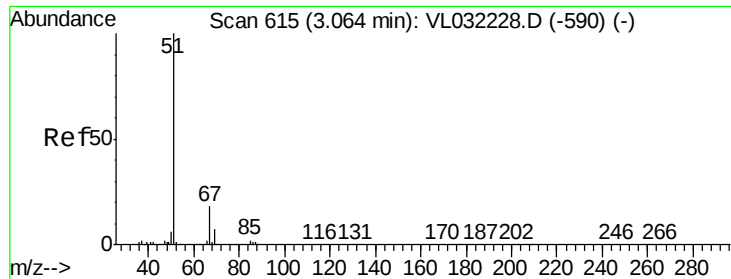
87 26.8 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

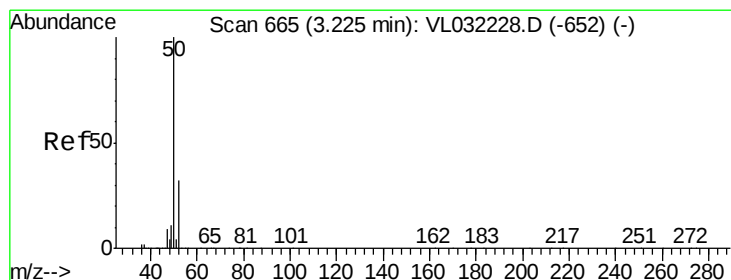
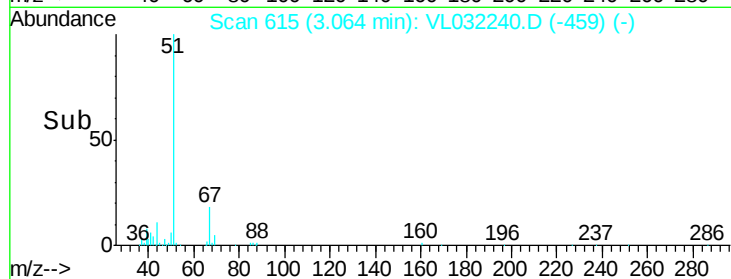
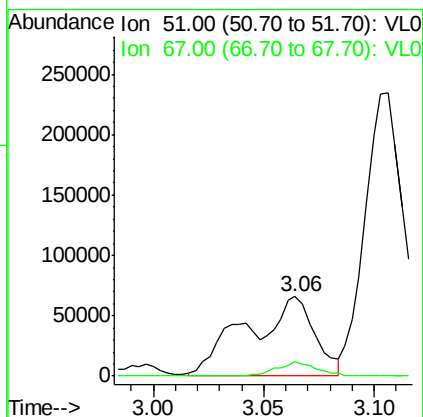
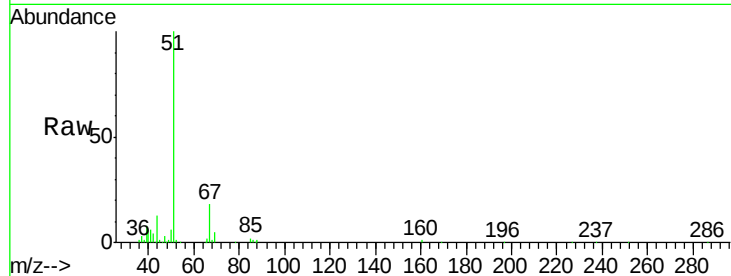




#3
 Chlorodifluoromethane
 Concen: 0.662 ppbv
 RT: 3.06 min Scan# 615
 Delta R.T. 0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

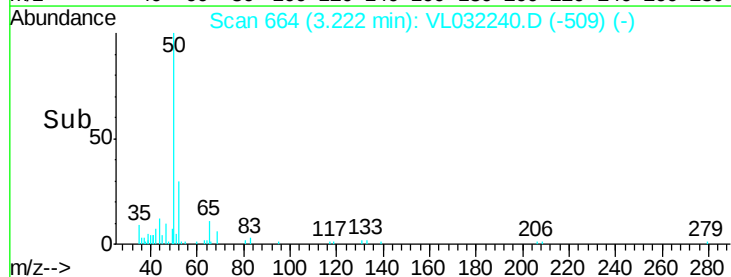
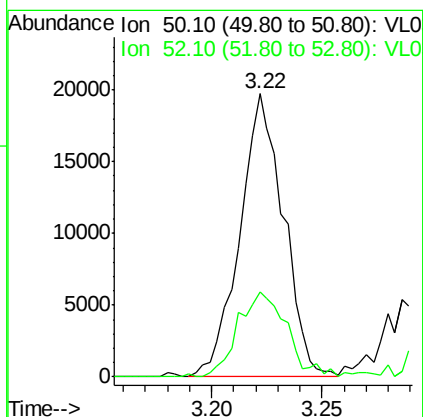
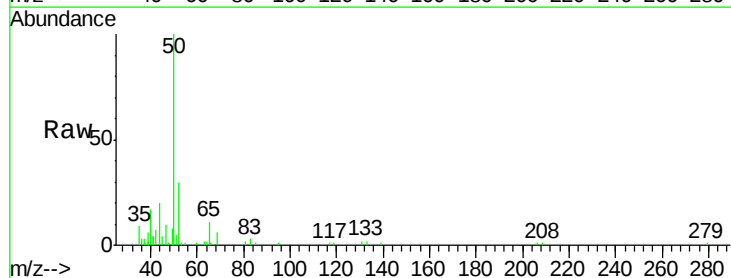
Instrument :
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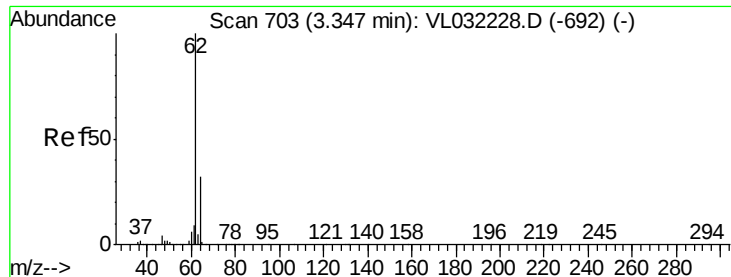
Tgt Ion: 51 Resp: 139934
 Ion Ratio Lower Upper
 51 100
 67 10.8 14.6 22.0#



#4
 Chloromethane
 Concen: 0.225 ppbv
 RT: 3.22 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion: 50 Resp: 27090
 Ion Ratio Lower Upper
 50 100
 52 28.5 25.7 38.5





#5

Vinyl Chloride

Concen: 0.021 ppbv

RT: 3.35 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

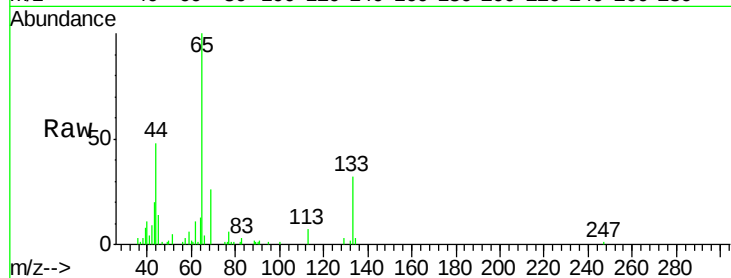
MID

Tgt Ion: 62 Resp: 2477

Ion Ratio Lower Upper

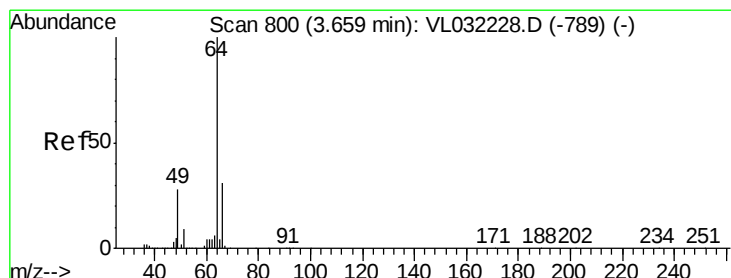
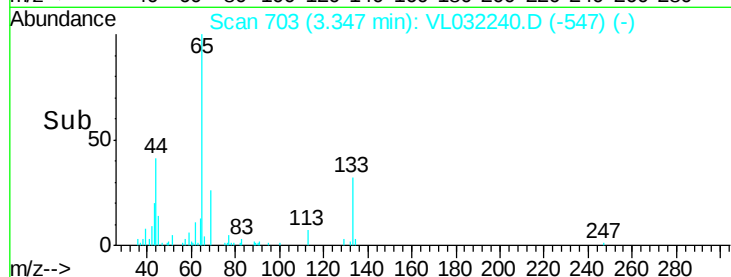
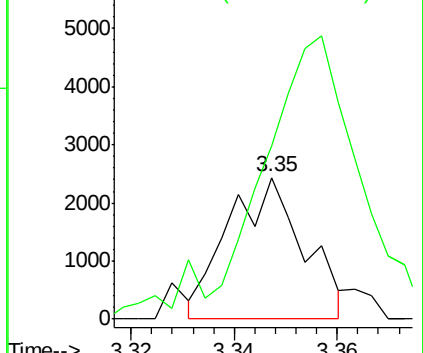
62 100

64 93.2 25.8 38.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#7

Chloroethane

Concen: 1.312 ppbv

RT: 3.66 min Scan# 799

Delta R.T. -0.00 min

Lab File: VL032240.D

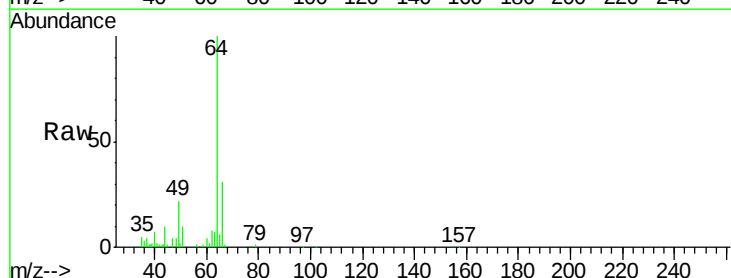
Acq: 13 Jul 2018 6:57

Tgt Ion: 64 Resp: 53584

Ion Ratio Lower Upper

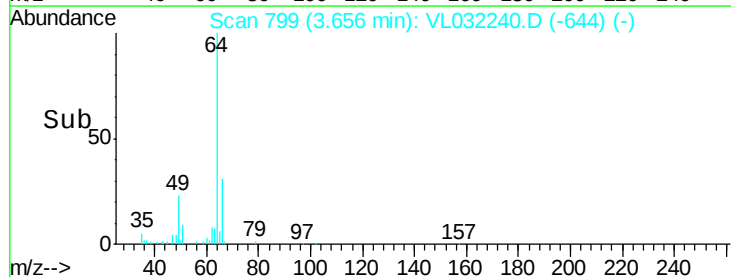
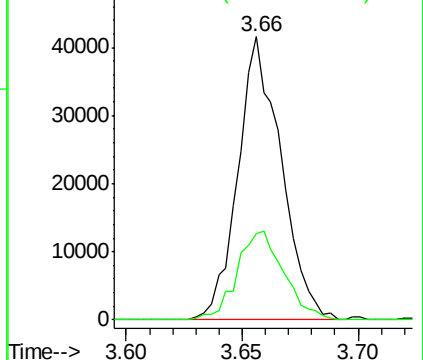
64 100

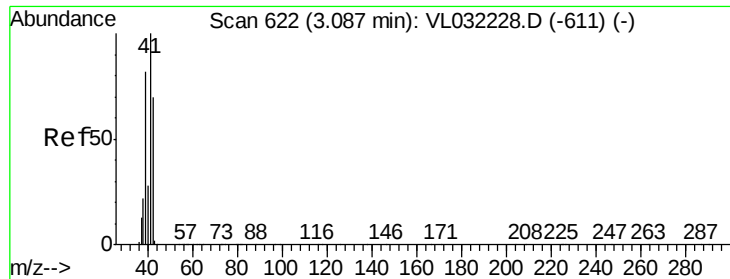
66 30.5 24.4 36.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 1.905 ppbv

RT: 3.09 min Scan# 623

Delta R.T. 0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

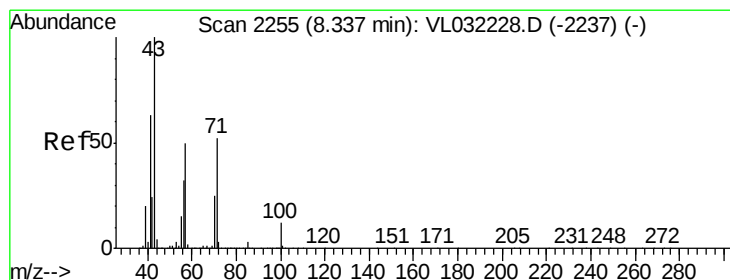
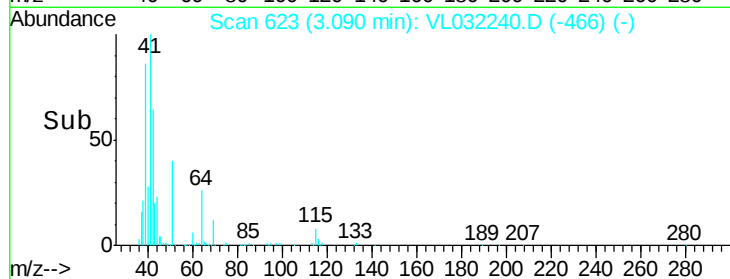
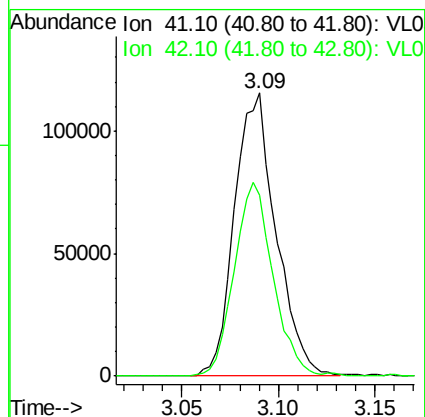
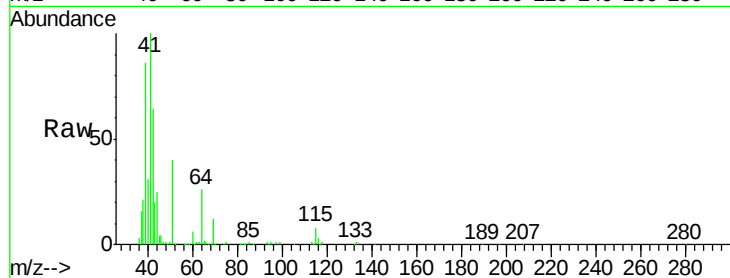
MID

Tgt Ion: 41 Resp: 171746

Ion Ratio Lower Upper

41 100

42 64.5 56.2 84.4



#10

Heptane

Concen: 0.949 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VL032240.D

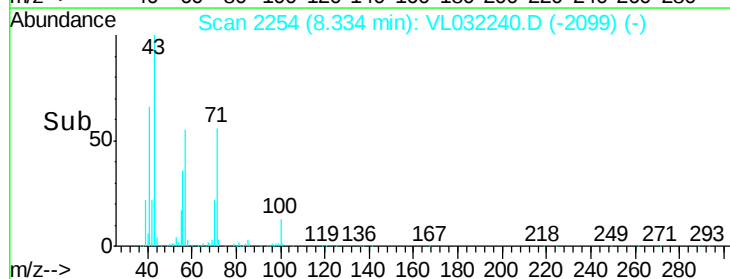
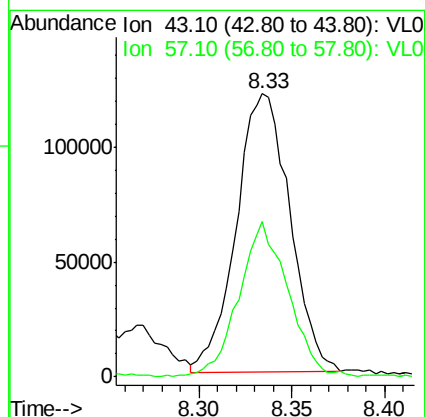
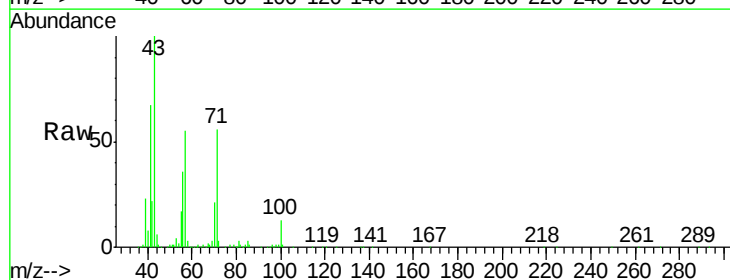
Acq: 13 Jul 2018 6:57

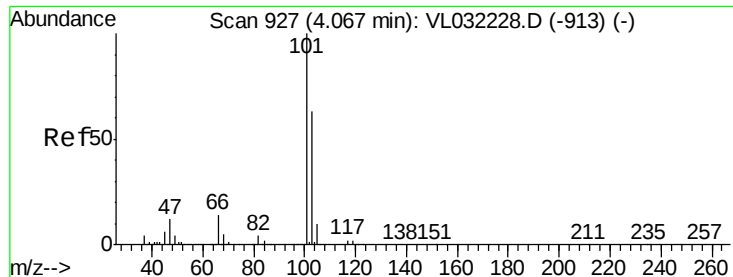
Tgt Ion: 43 Resp: 242944

Ion Ratio Lower Upper

43 100

57 51.7 40.7 61.1

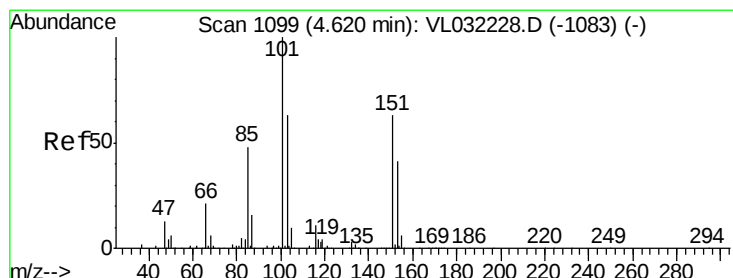
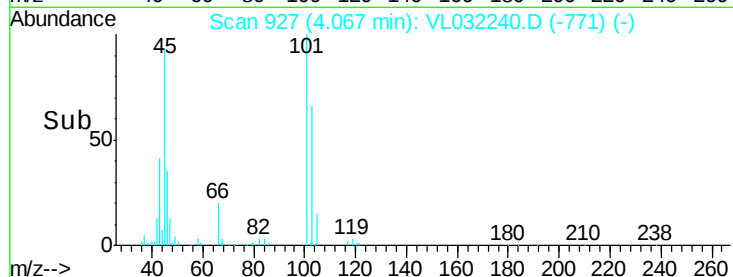
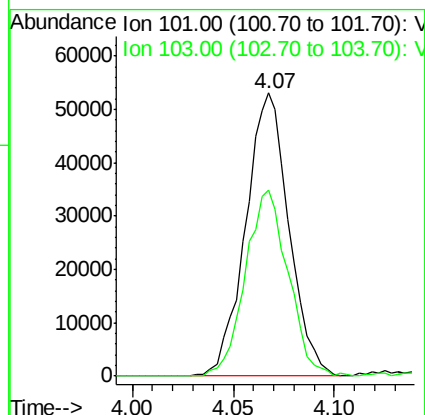
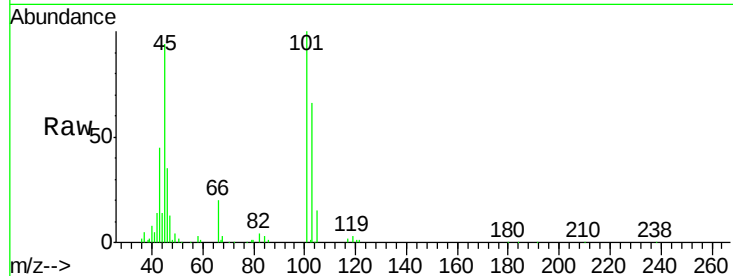




#11
 Trichlorofluoromethane
 Concen: 0.336 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

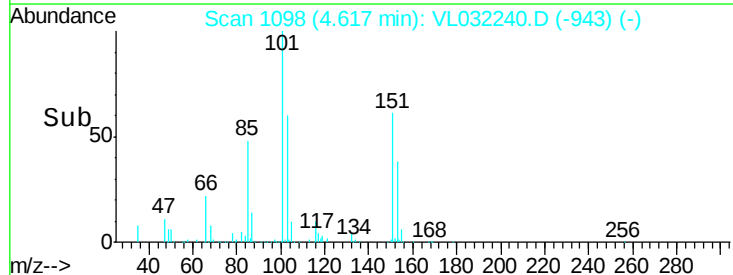
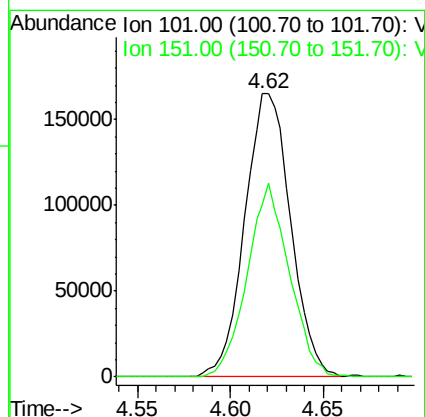
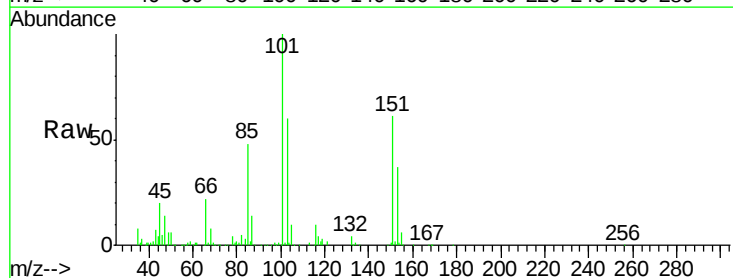
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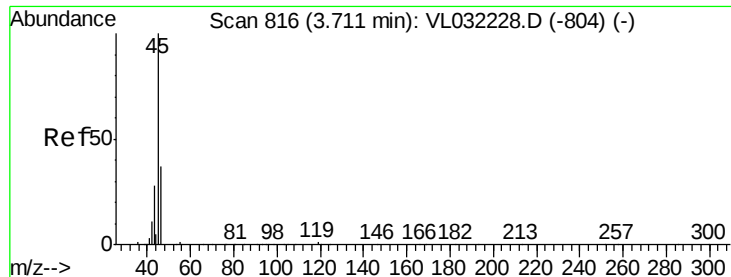
Tgt Ion:101 Resp: 79753
 Ion Ratio Lower Upper
 101 100
 103 65.7 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.884 ppbv
 RT: 4.62 min Scan# 1098
 Delta R.T. -0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion:101 Resp: 285298
 Ion Ratio Lower Upper
 101 100
 151 62.7 52.2 78.2

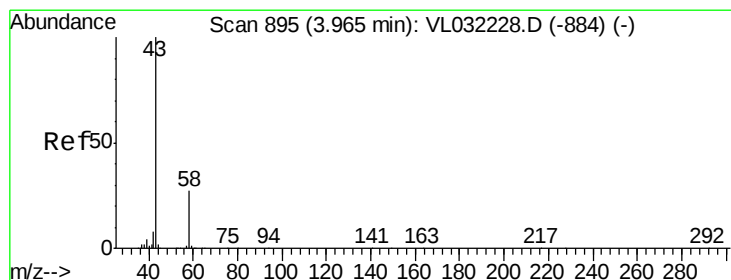
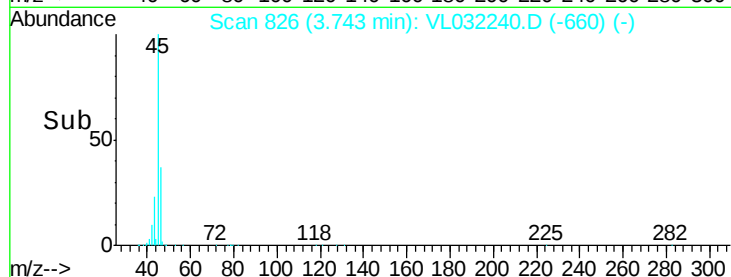
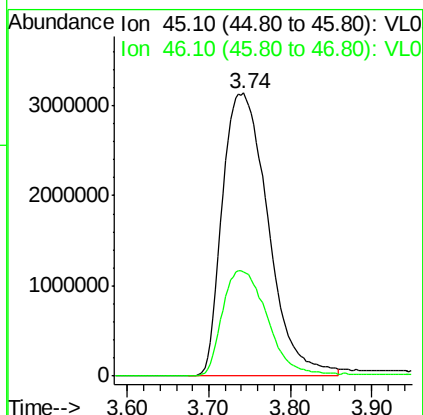
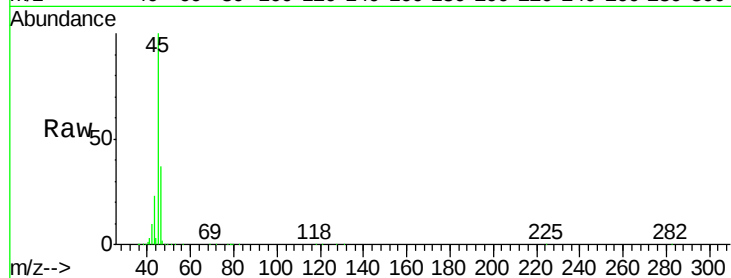




#13
Ethanol
Concen: 473.080 ppbv
RT: 3.74 min Scan# 826
Delta R.T. 0.03 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

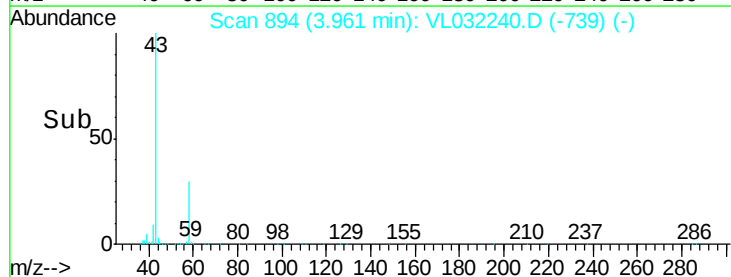
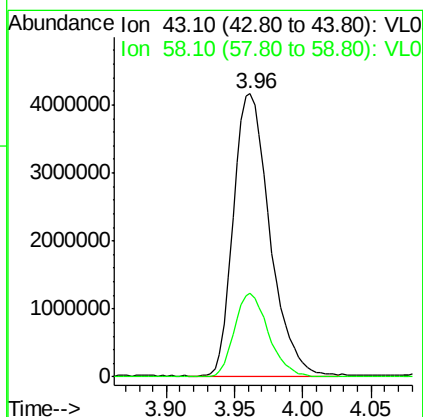
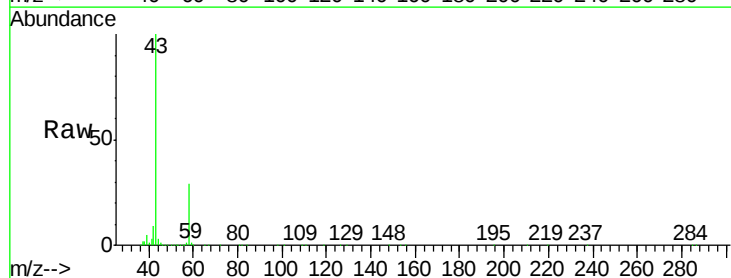
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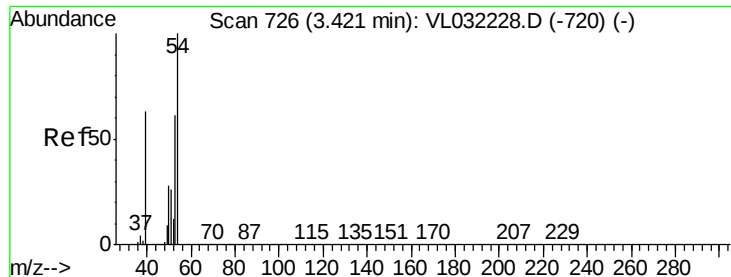
Tgt Ion: 45 Resp:12312757
Ion Ratio Lower Upper
45 100
46 37.3 15.5 61.9



#15
Acetone
Concen: 38.529 ppbv
RT: 3.96 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion: 43 Resp: 7695792
Ion Ratio Lower Upper
43 100
58 27.9 21.5 32.3





#16

1,3-Butadiene

Concen: 1.886 ppbv

RT: 3.45 min Scan# 734

Delta R.T. 0.03 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

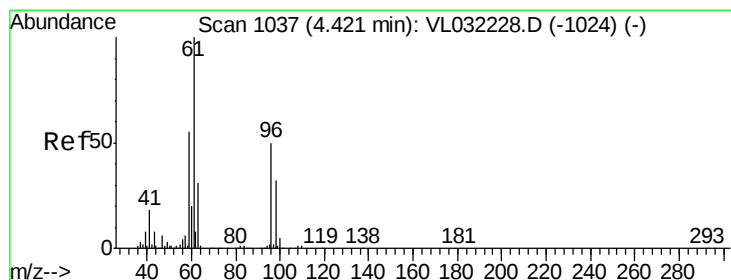
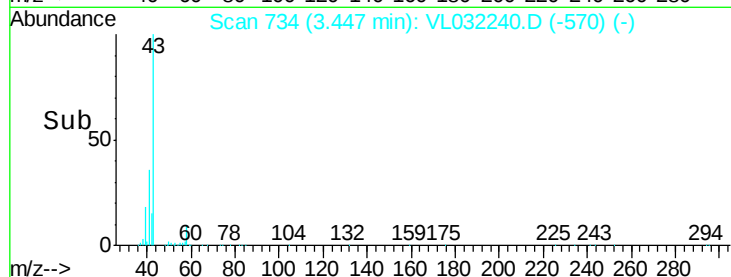
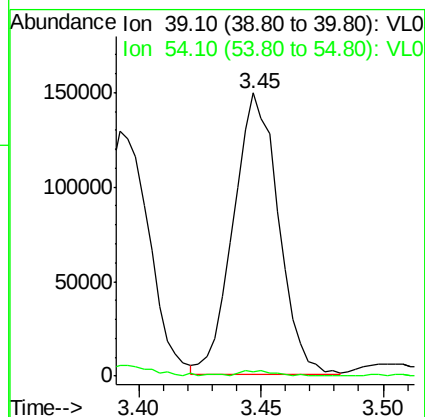
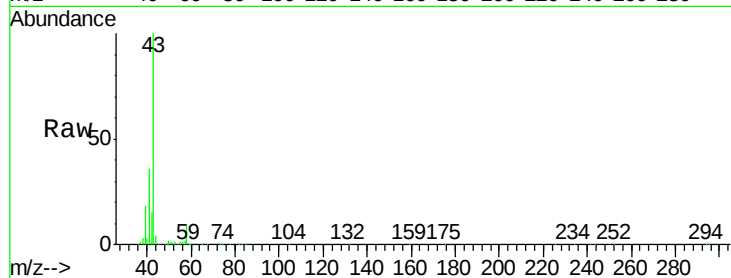
MID

Tgt Ion: 39 Resp: 190364

Ion Ratio Lower Upper

39 100

54 1.7 70.0 105.0#



#17

tert-Butyl alcohol

Concen: 11.928 ppbv

RT: 4.46 min Scan# 1049

Delta R.T. 0.04 min

Lab File: VL032240.D

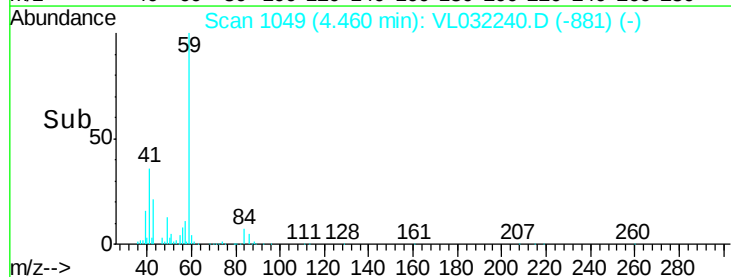
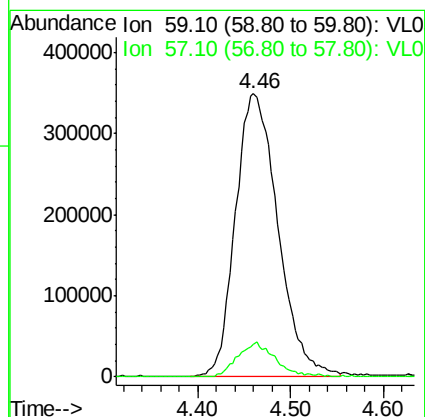
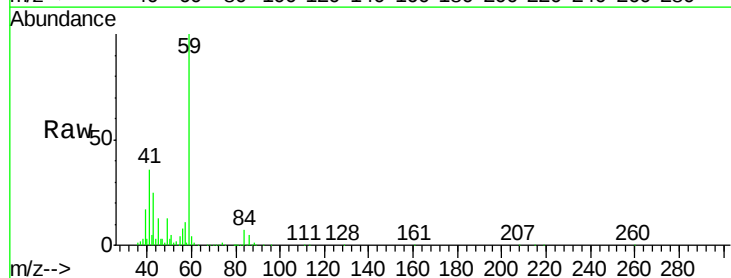
Acq: 13 Jul 2018 6:57

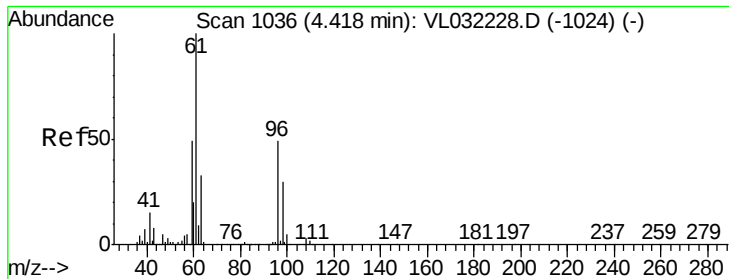
Tgt Ion: 59 Resp: 1112372

Ion Ratio Lower Upper

59 100

57 11.1 8.4 12.6





#18

1,1-Dichloroethene

Concen: 1.681 ppbv

RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

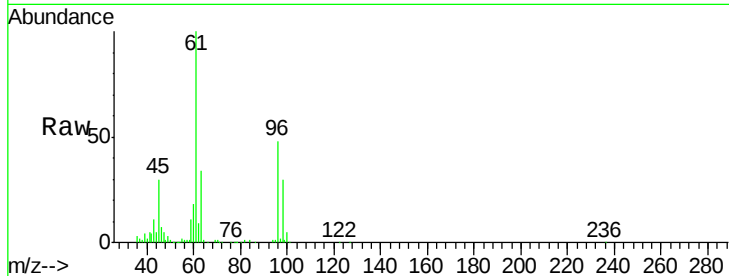
Tgt Ion: 96 Resp: 118448

Ion Ratio Lower Upper

96 100

61 206.3 163.0 244.4

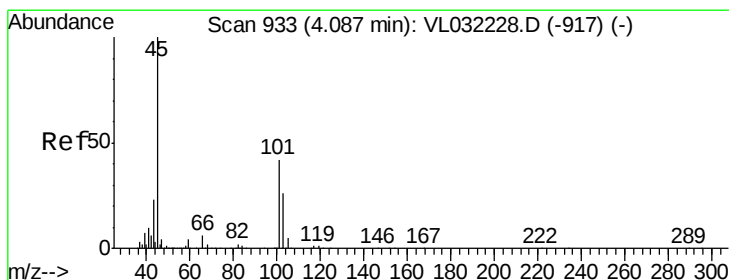
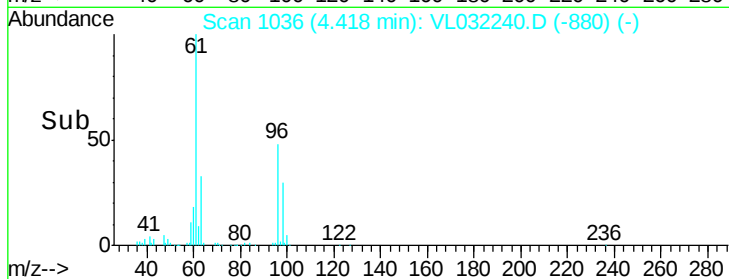
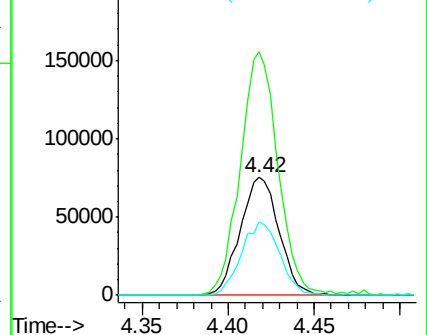
98 62.2 48.5 72.7



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 56.277 ppbv

RT: 4.12 min Scan# 944

Delta R.T. 0.04 min

Lab File: VL032240.D

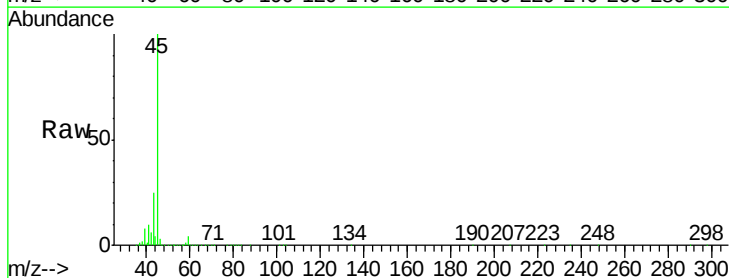
Acq: 13 Jul 2018 6:57

Tgt Ion: 45 Resp: 7381046

Ion Ratio Lower Upper

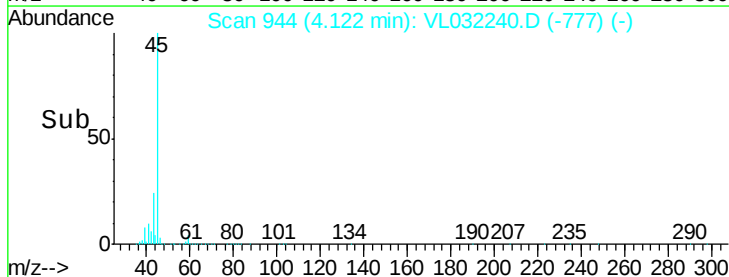
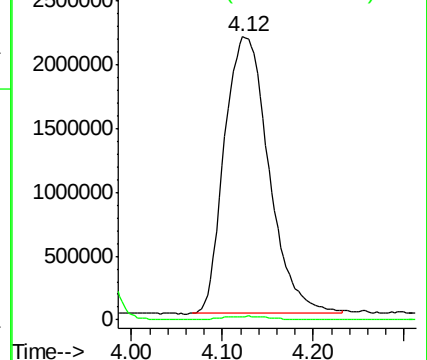
45 100

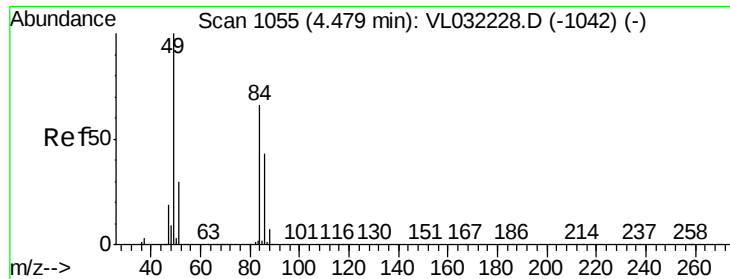
58 1.4 1.3 1.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

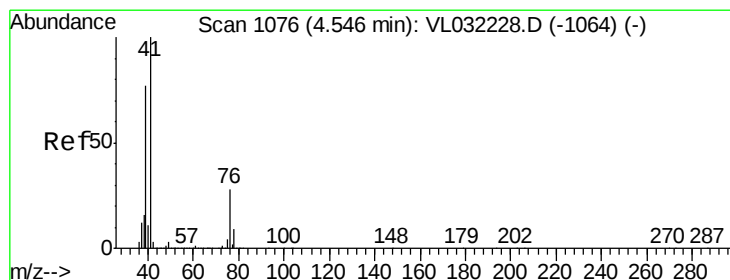
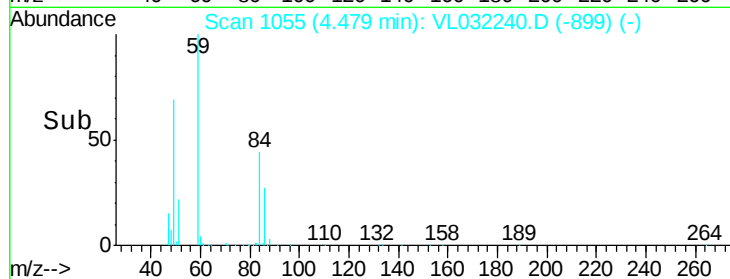
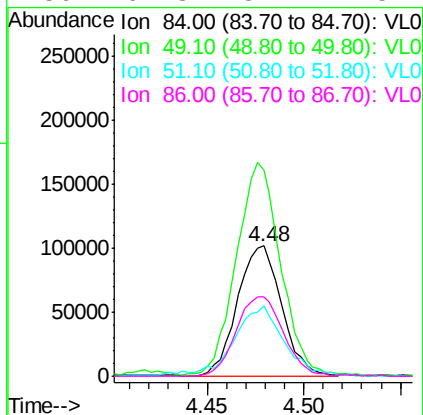
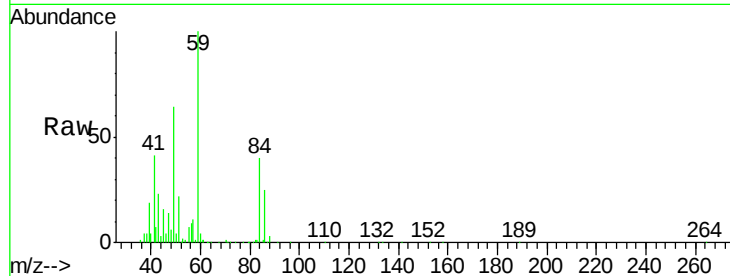




#20
Methylene Chloride
Concen: 2.365 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

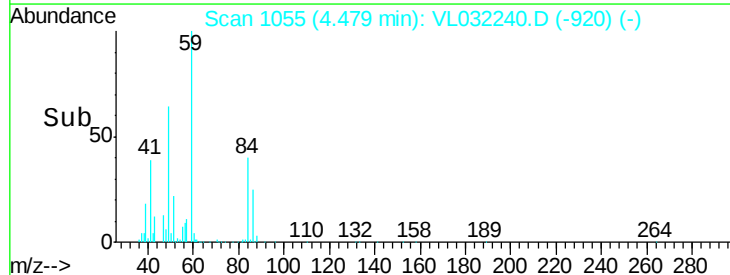
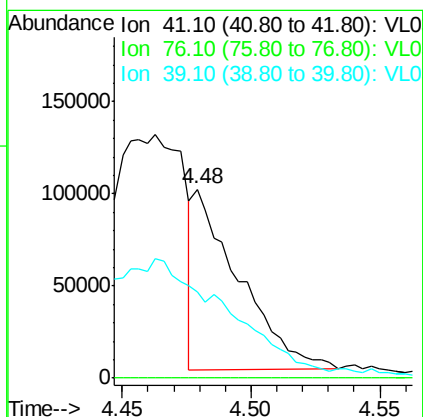
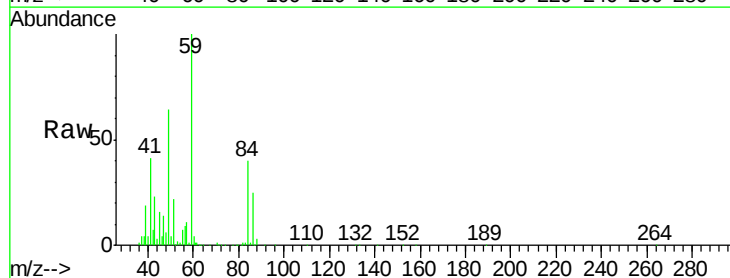
Instrument :
MSVOA_L
ClientSampled :
MID

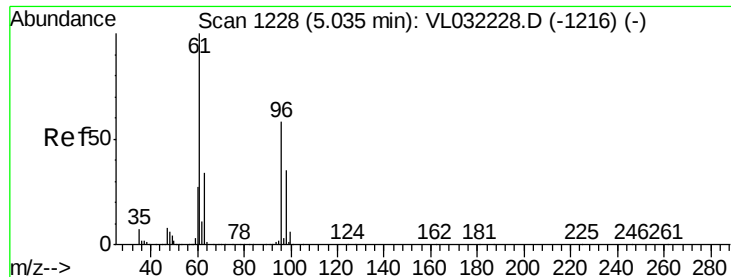
Tgt Ion:	84	Resp:	160086
Ion	Ratio	Lower	Upper
84	100		
49	156.8	121.8	182.6
51	53.0	36.3	54.5
86	61.3	52.1	78.1



#21
Allyl Chloride
Concen: 1.010 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. -0.07 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion:	41	Resp:	118084
Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.9	34.3#
39	0.0	62.3	93.5#





#22

trans-1,2-Dichloroethene

Concen: 1.324 ppbv

RT: 5.04 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

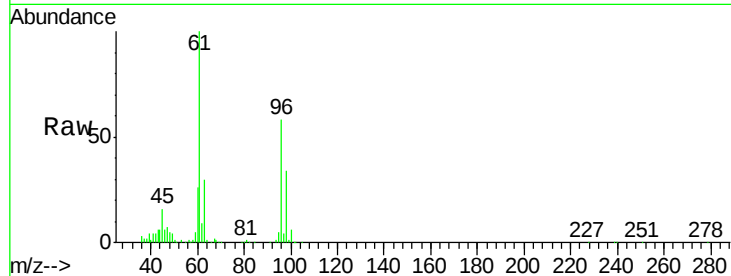
Tgt Ion: 96 Resp: 88784

Ion Ratio Lower Upper

96 100

61 170.2 139.1 208.7

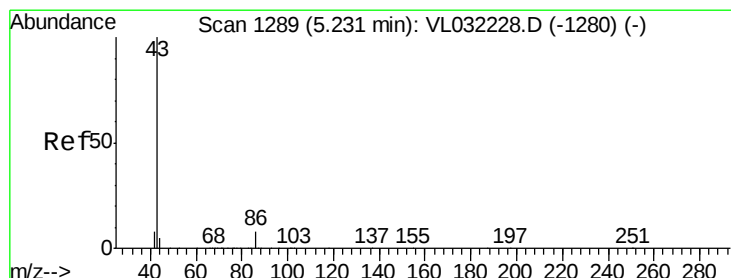
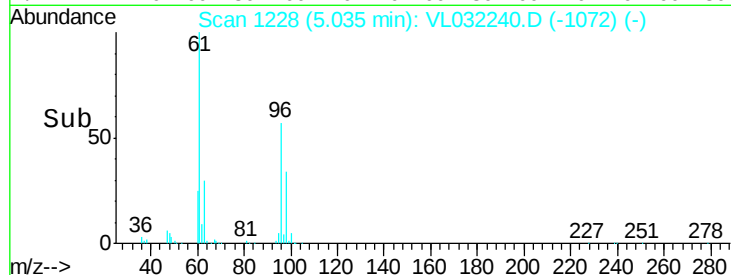
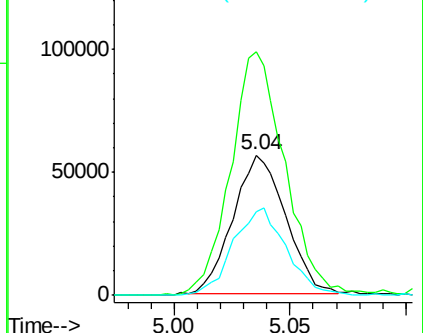
98 59.0 48.4 72.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 2.065 ppbv

RT: 5.22 min Scan# 1286

Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Tgt Ion: 43 Resp: 685926

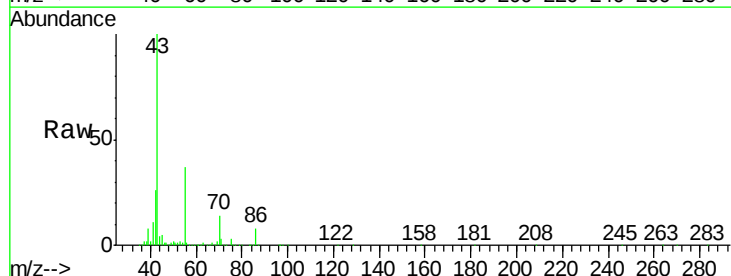
Ion Ratio Lower Upper

43 100

86 7.5 5.9 8.9

42 25.3 7.0 10.6#

44 2.7 4.2 6.2#

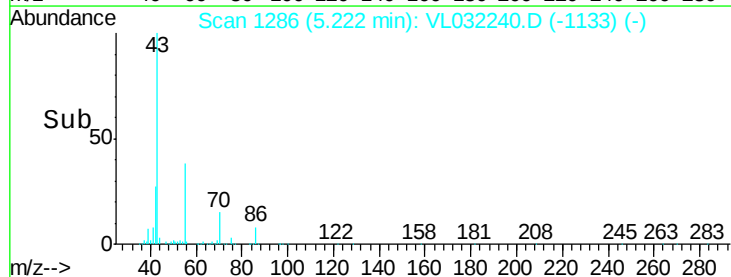
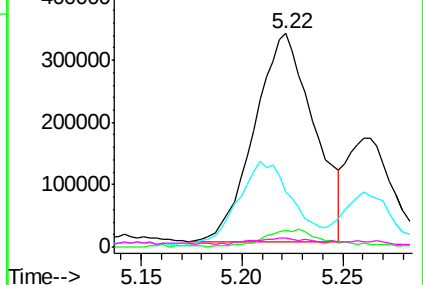


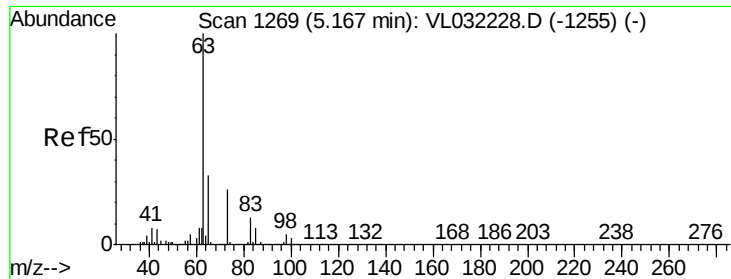
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



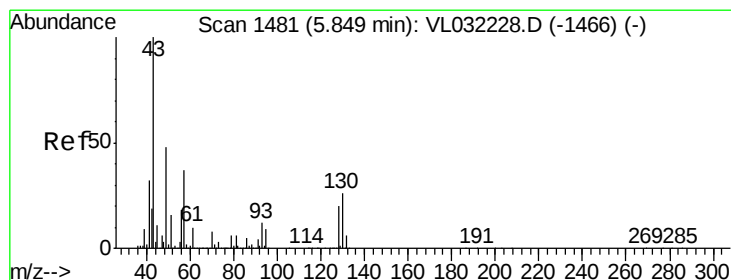
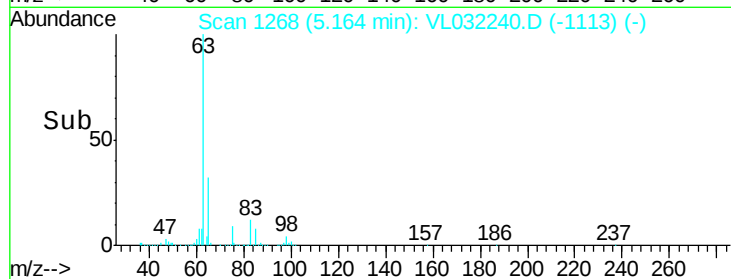
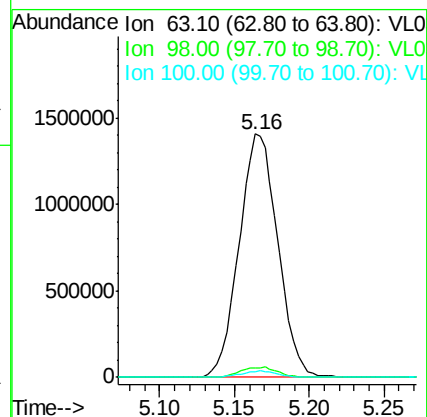
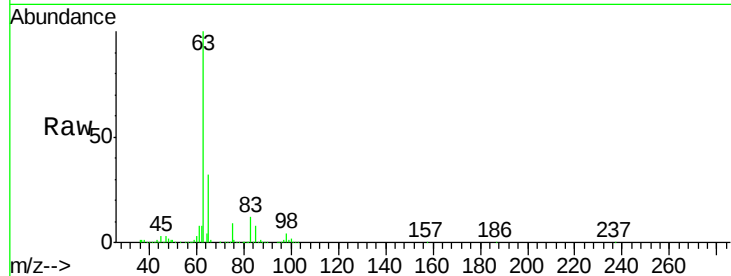


#24
 1,1-Dichloroethane
 Concen: 10.825 ppbv
 RT: 5.16 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tgt Ion: 63 Resp: 2524789

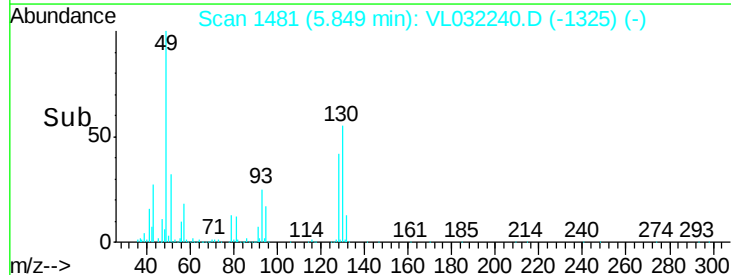
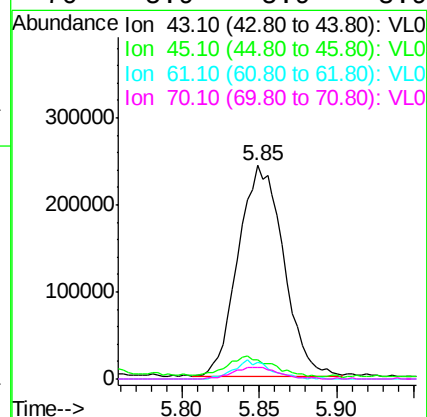
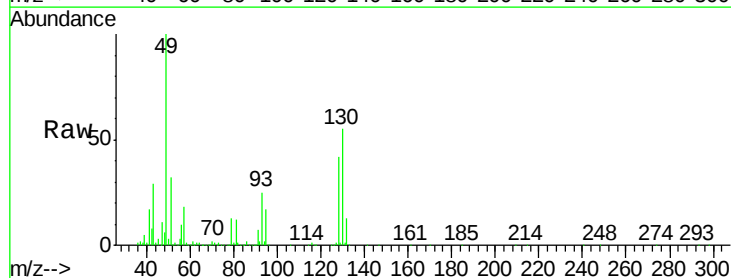
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.4	7.1
100	2.4	1.5	4.4

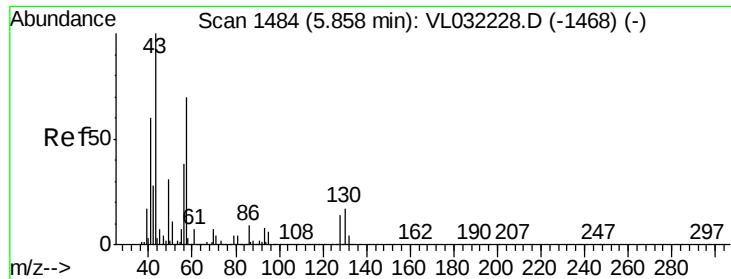


#25
 Ethyl Acetate
 Concen: 1.252 ppbv
 RT: 5.85 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion: 43 Resp: 494999

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	7.2	7.7	11.5#
70	5.9	5.9	8.9#

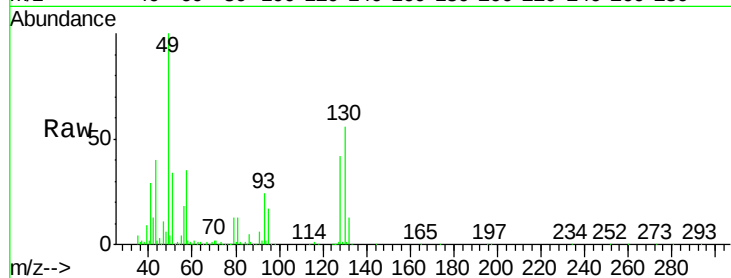




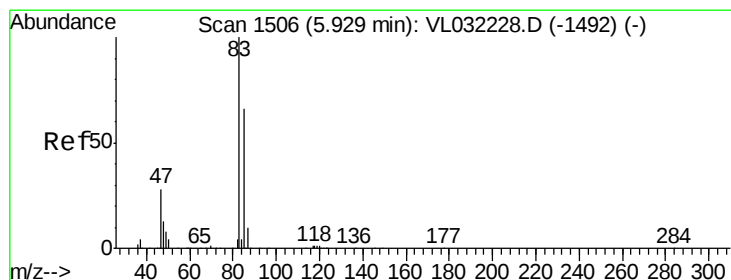
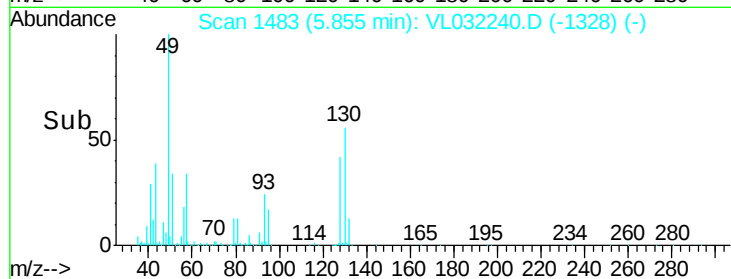
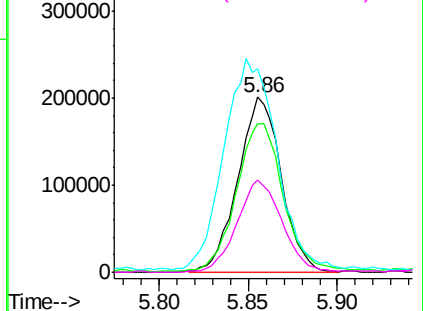
#26
Hexane
Concen: 1.863 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Instrument :
MSVOA_L
ClientSampleId :
MID

Tgt Ion: 57 Resp: 335831
Ion Ratio Lower Upper
57 100
41 91.7 68.7 103.1
43 151.8 176.2 264.2#
56 55.9 42.8 64.2

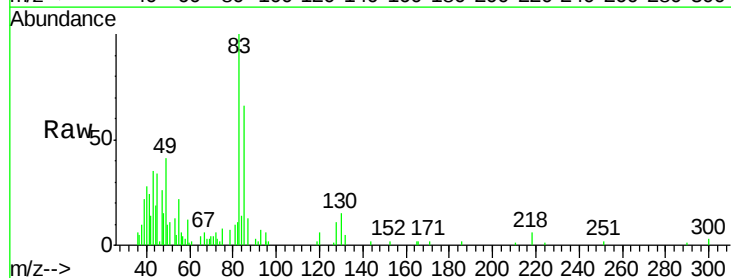


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

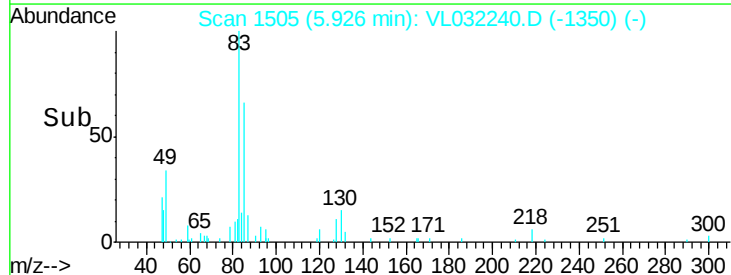
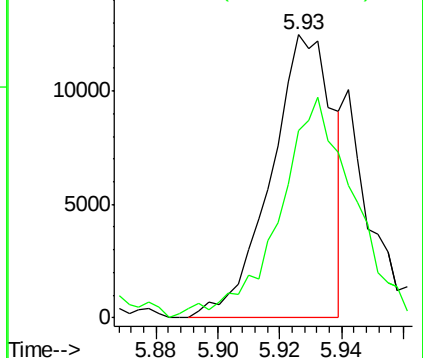


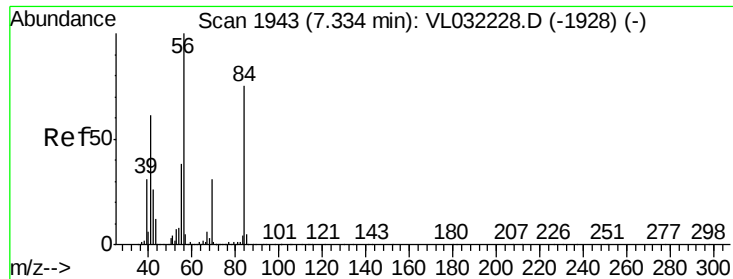
#29
Chloroform
Concen: 0.062 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. -0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion: 83 Resp: 17372
Ion Ratio Lower Upper
83 100
85 63.0 52.7 79.1



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

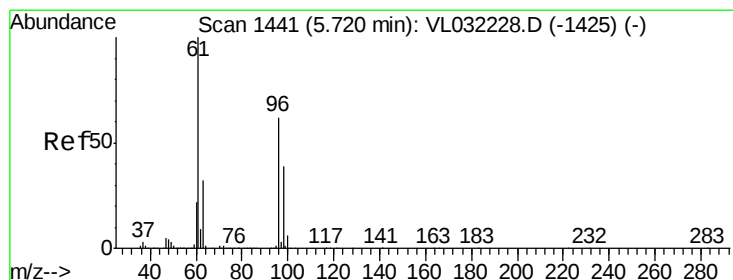
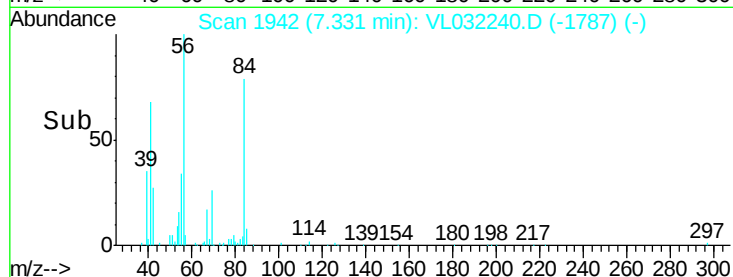
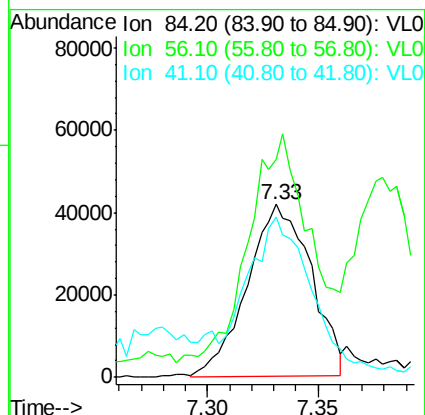
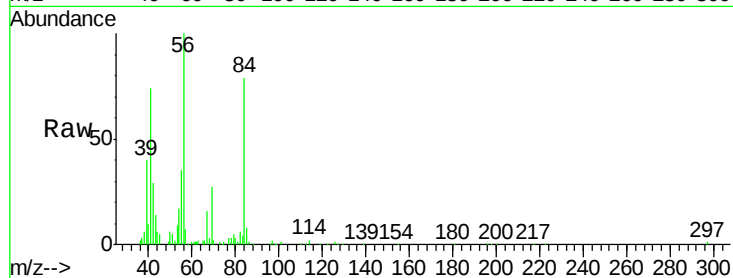




#30
Cyclohexane
Concen: 0.527 ppbv
RT: 7.33 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

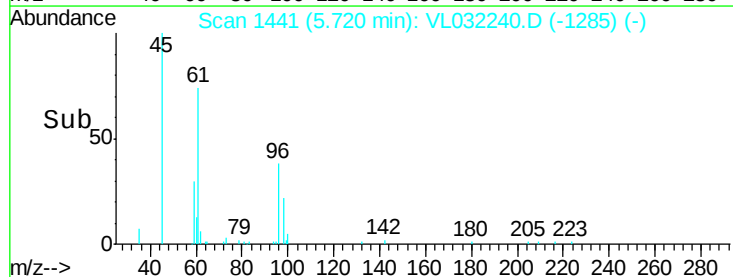
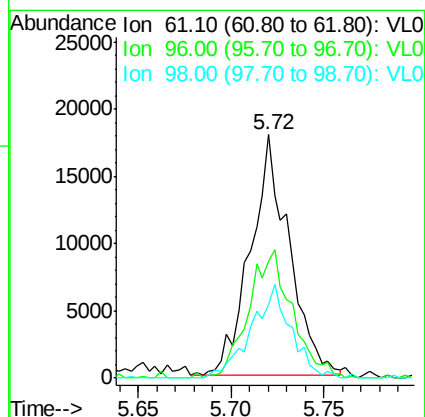
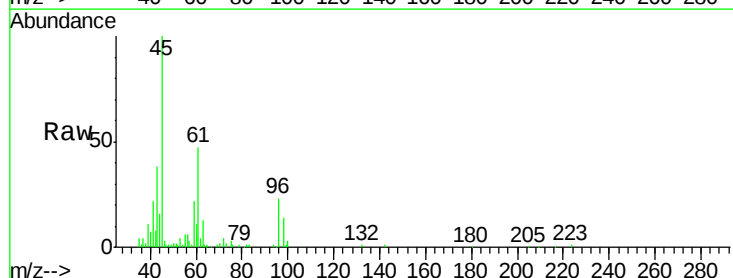
Instrument :
MSVOA_L
ClientSampled :
MID

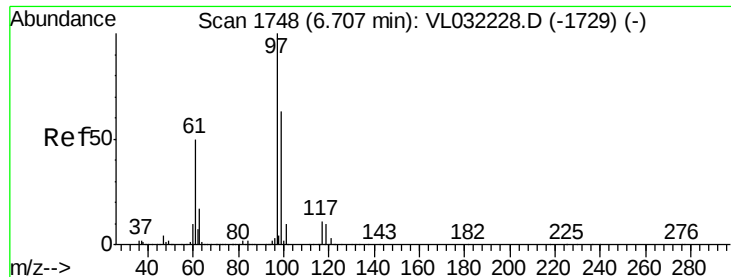
Tgt Ion: 84 Resp: 83855
Ion Ratio Lower Upper
84 100
56 151.0 112.6 168.8
41 97.1 67.0 100.6



#31
cis-1,2-Dichloroethene
Concen: 0.145 ppbv
RT: 5.72 min Scan# 1441
Delta R.T. 0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion: 61 Resp: 26158
Ion Ratio Lower Upper
61 100
96 44.5 49.8 74.8#
98 28.1 31.4 47.2#





#32

1,1,1-Trichloroethane

Concen: 56.231 ppbv

RT: 6.70 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

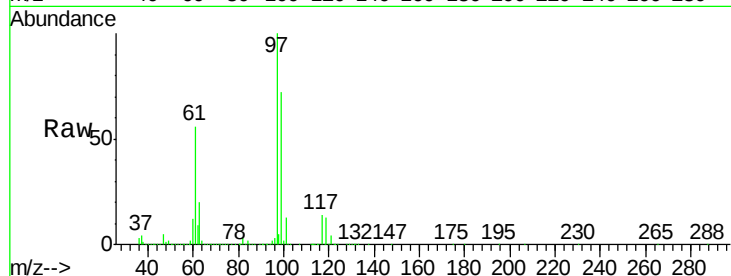
Tgt Ion: 97 Resp:15188168

Ion Ratio Lower Upper

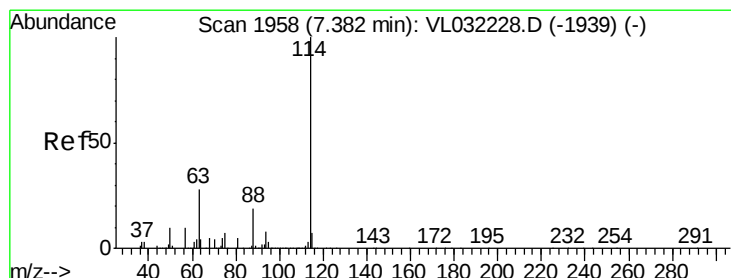
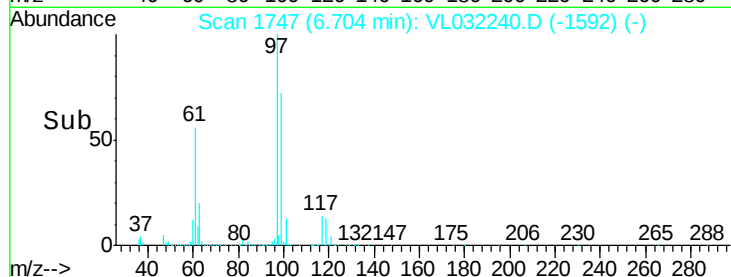
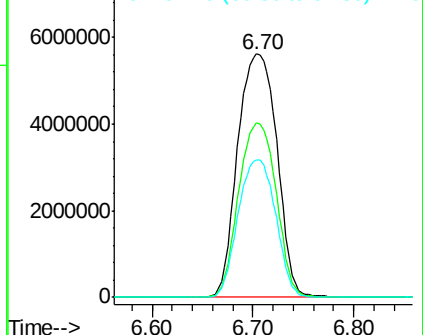
97 100

99 68.6 51.2 76.8

61 54.3 41.3 61.9



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.38 min Scan# 1957

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

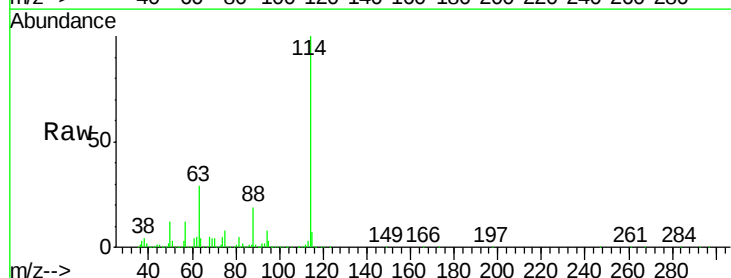
Tgt Ion:114 Resp: 3770718

Ion Ratio Lower Upper

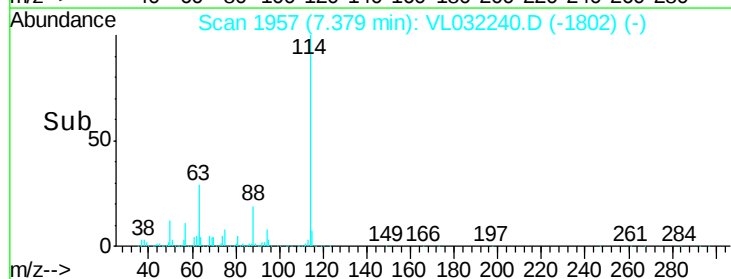
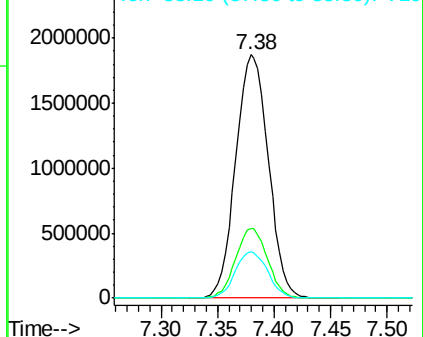
114 100

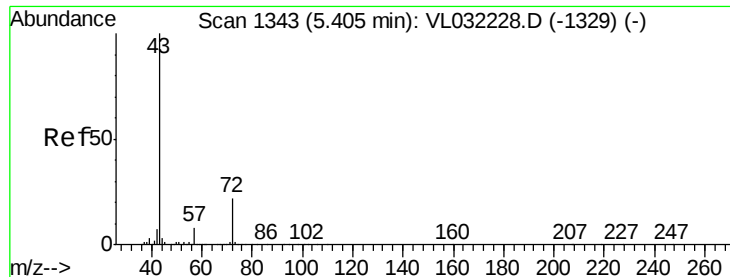
63 28.2 22.5 33.7

88 18.9 15.4 23.0



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

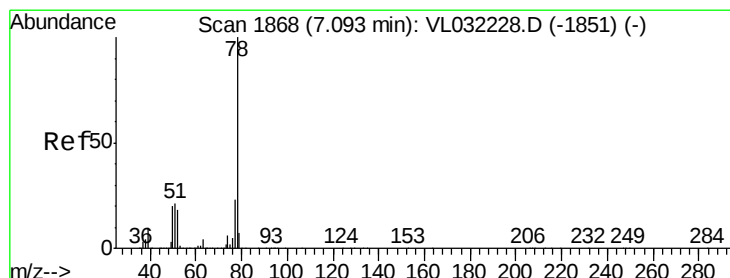
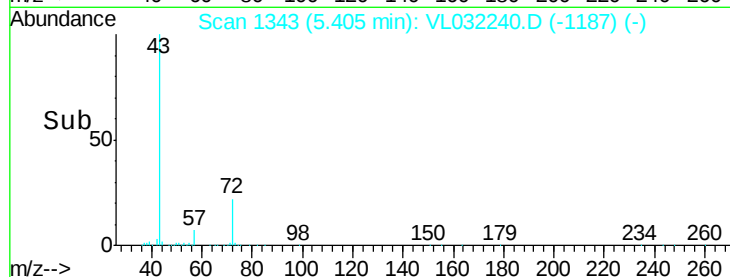
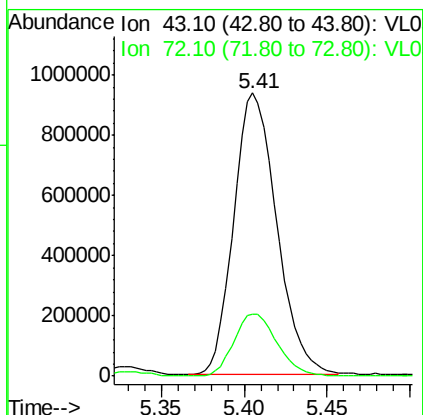
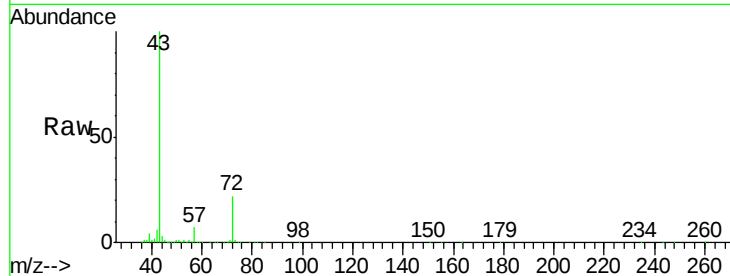




#34
2-Butanone
Concen: 6.581 ppbv
RT: 5.41 min Scan# 1343
Delta R.T. 0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

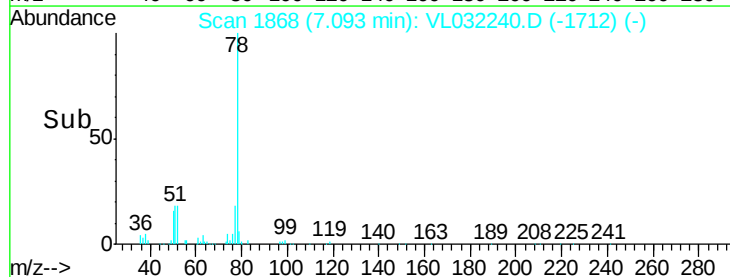
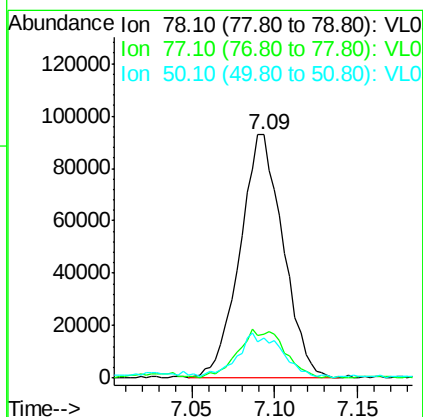
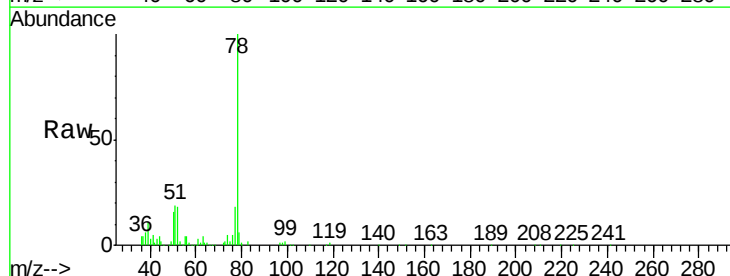
Instrument :
MSVOA_L
ClientSampleId :
MID

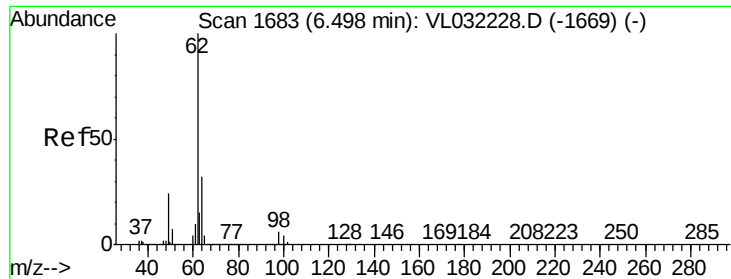
Tgt Ion: 43 Resp: 1690792
Ion Ratio Lower Upper
43 100
72 22.1 18.1 27.1



#36
Benzene
Concen: 0.446 ppbv
RT: 7.09 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion: 78 Resp: 167170
Ion Ratio Lower Upper
78 100
77 17.5 18.0 27.0#
50 15.4 15.8 23.8#

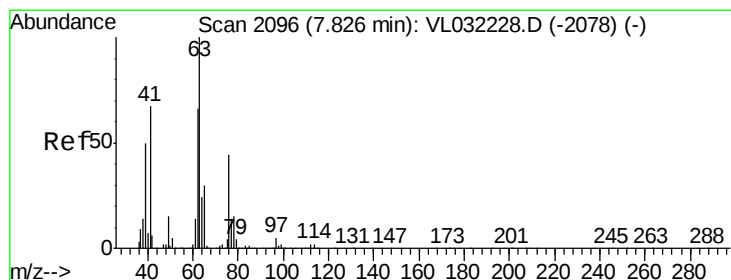
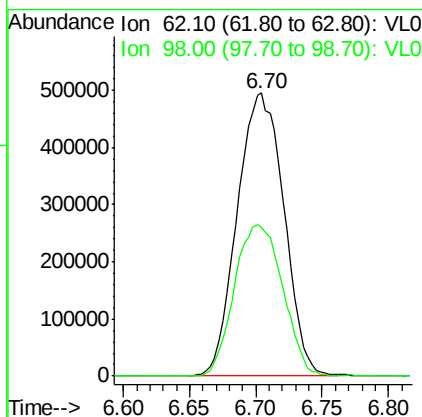
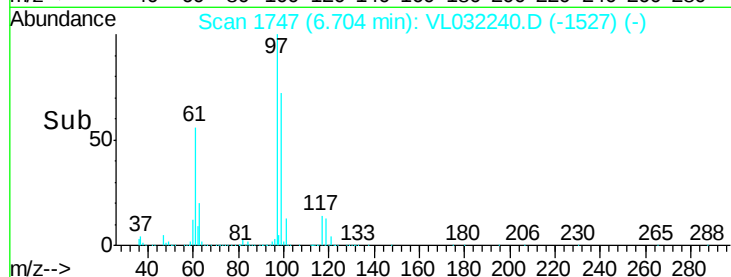
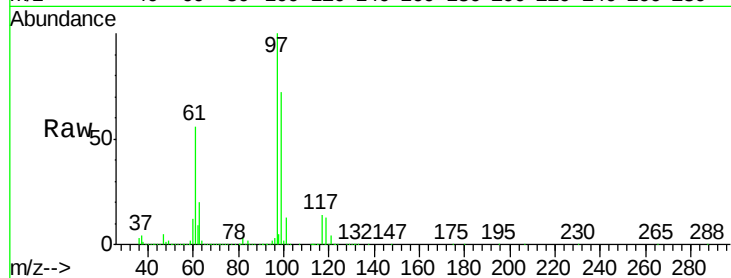




#37
 1,2-Dichloroethane
 Concen: 5.894 ppbv
 RT: 6.70 min Scan# 1747
 Delta R.T. 0.21 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

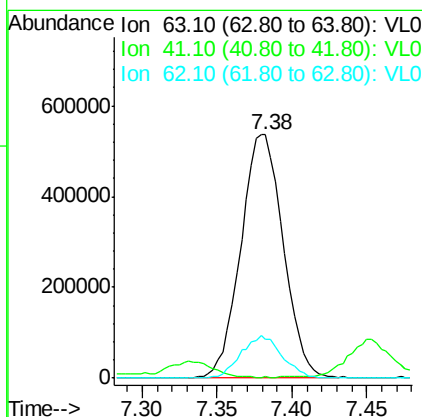
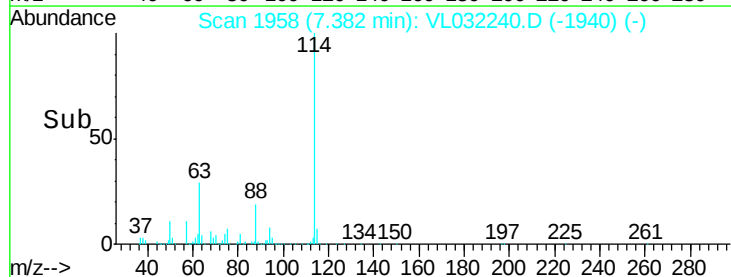
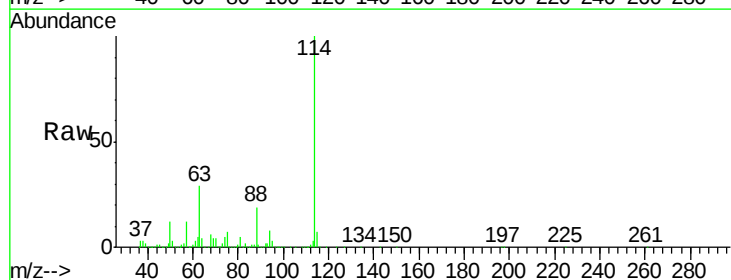
Instrument :
 MSVOA_L
 ClientSampleId :
 MID

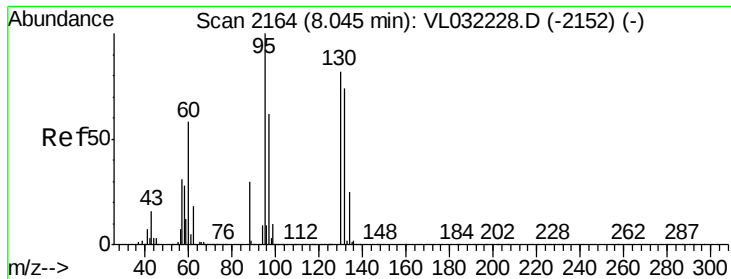
Tgt Ion: 62 Resp: 1209290
 Ion Ratio Lower Upper
 62 100
 98 56.0 4.6 7.0#



#39
 1,2-Dichloropropane
 Concen: 7.057 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.44 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion: 63 Resp: 1050905
 Ion Ratio Lower Upper
 63 100
 41 0.0 53.8 80.6#
 62 15.6 53.1 79.7#

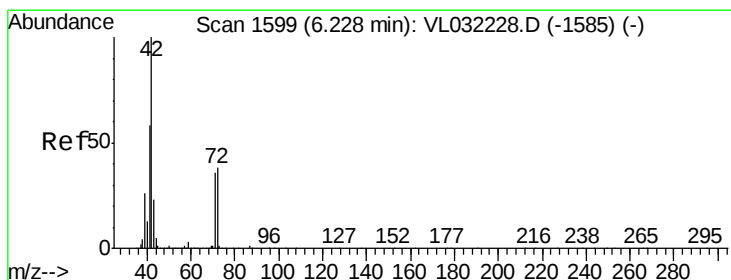
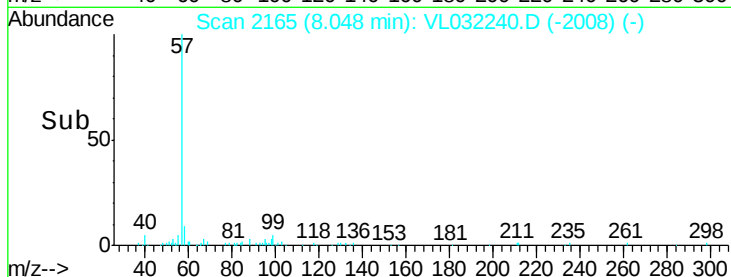
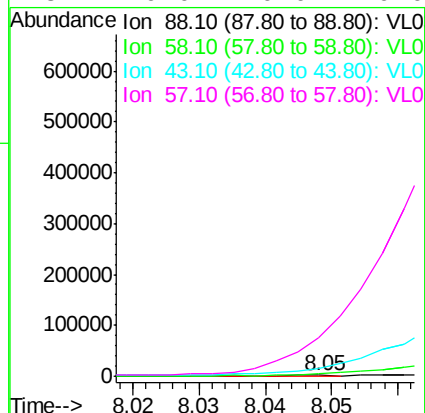
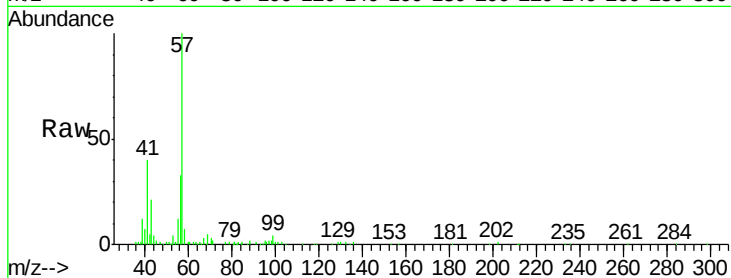




#40
1,4-Dioxane
Concen: 0.027 ppbv
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

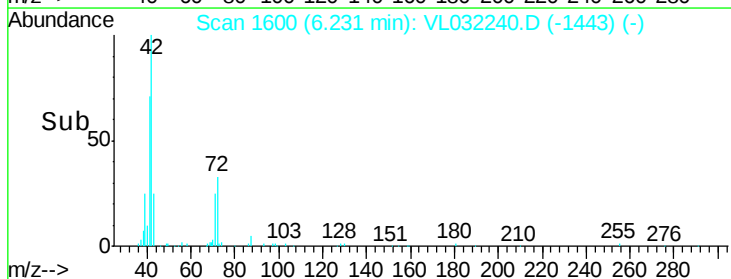
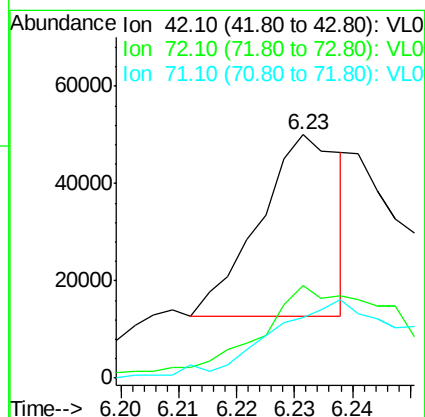
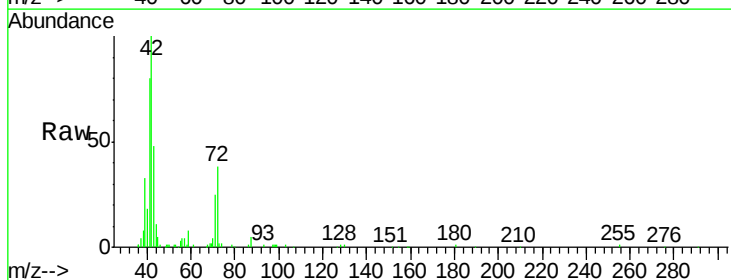
Instrument :
MSVOA_L
ClientSampleId :
MID

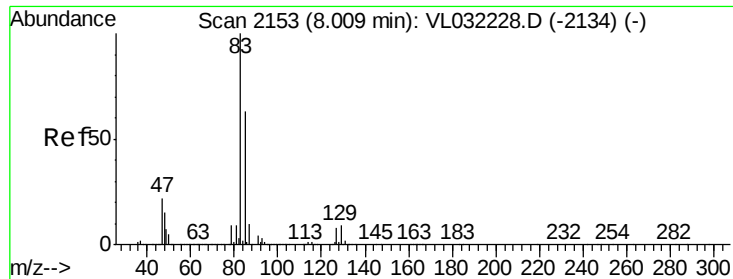
Tgt Ion: 88 Resp: 1366
Ion Ratio Lower Upper
88 100
58 0.0 117.4 176.2#
43 0.0 0.0 0.0
57 0.0 0.0 0.0



#41
Tetrahydrofuran
Concen: 0.251 ppbv
RT: 6.23 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion: 42 Resp: 36085
Ion Ratio Lower Upper
42 100
72 100.7 30.6 45.8#
71 82.4 29.7 44.5#





#42

Bromodichloromethane

Concen: 0.025 ppbv

RT: 8.01 min Scan# 2152

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

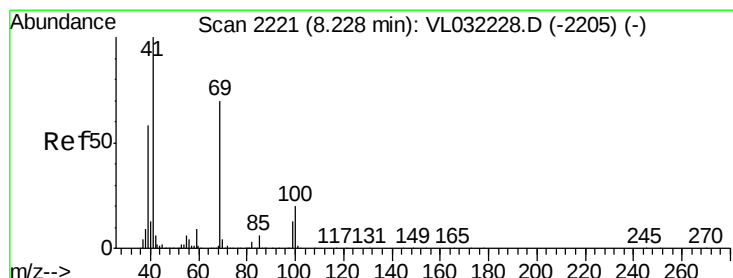
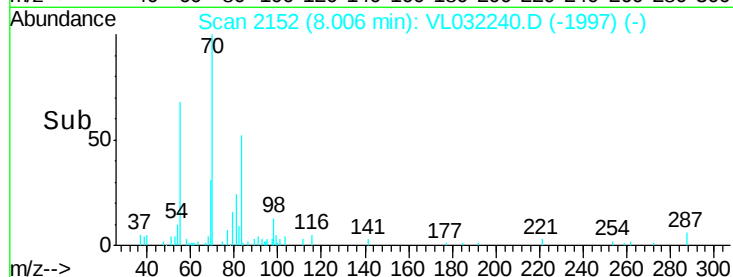
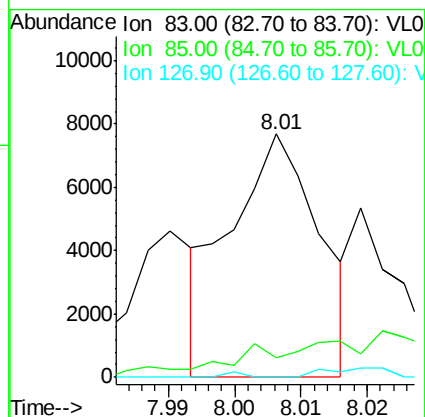
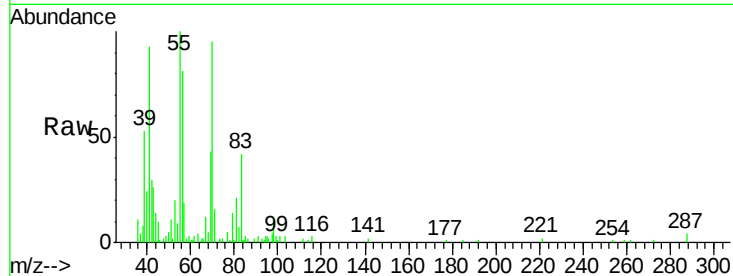
Tgt Ion: 83 Resp: 7160

Ion Ratio Lower Upper

83 100

85 9.3 50.6 76.0#

127 0.0 6.1 9.1#



#43

Methyl Methacrylate

Concen: 0.050 ppbv

RT: 8.22 min Scan# 2219

Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

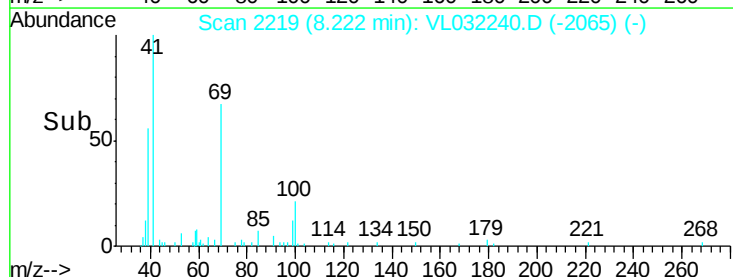
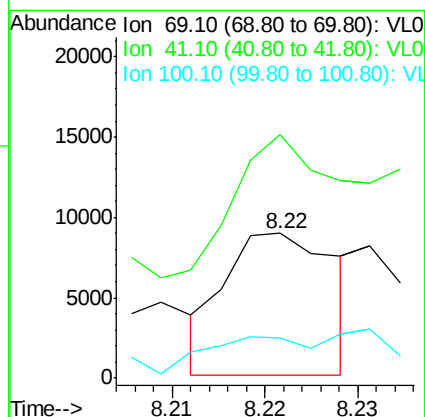
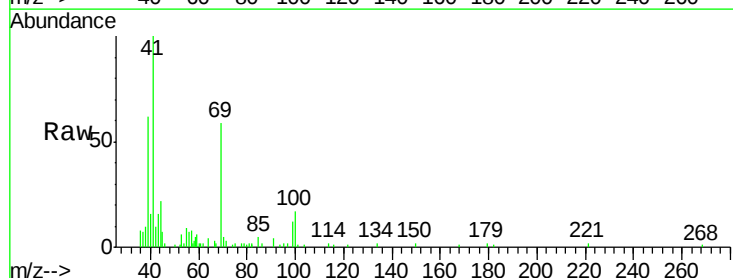
Tgt Ion: 69 Resp: 7266

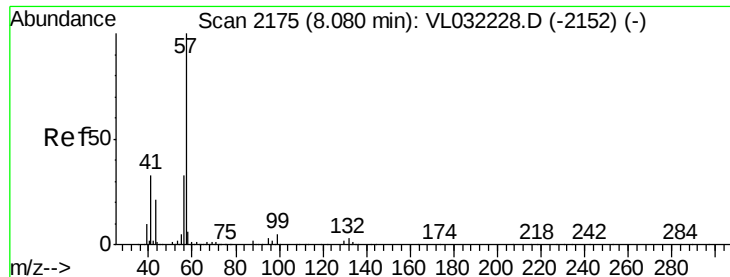
Ion Ratio Lower Upper

69 100

41 417.2 116.3 174.5#

100 0.0 23.8 35.8#

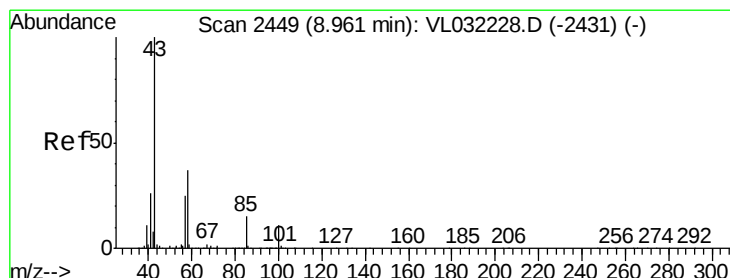
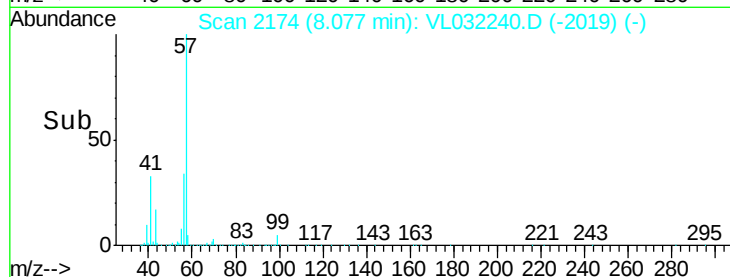
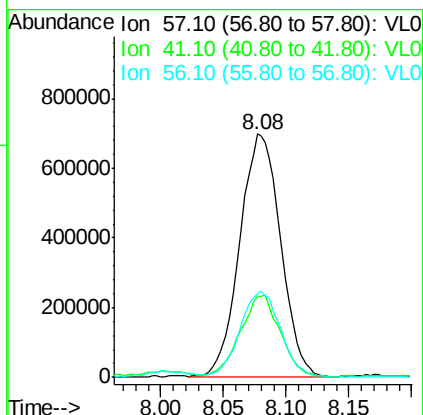
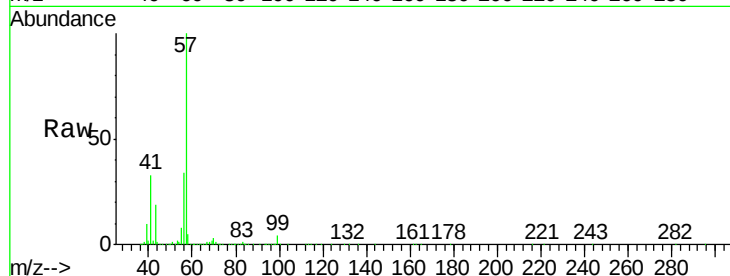




#44
 2,2,4-Trimethylpentane
 Concen: 2.436 ppbv
 RT: 8.08 min Scan# 2174
 Delta R.T. -0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

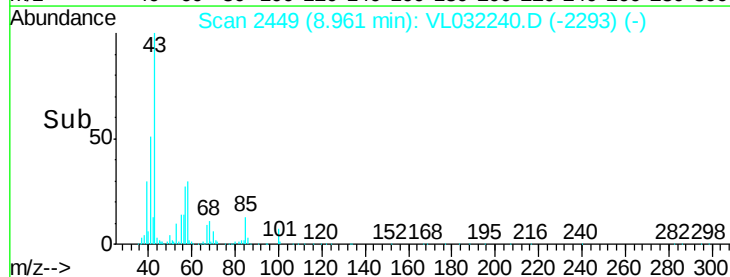
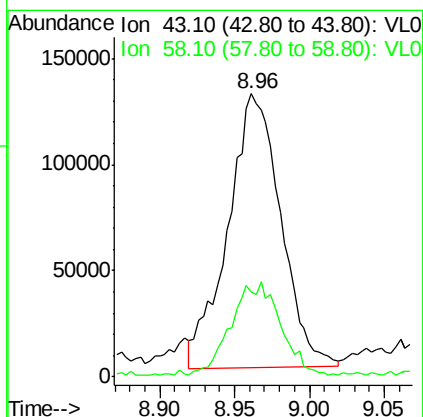
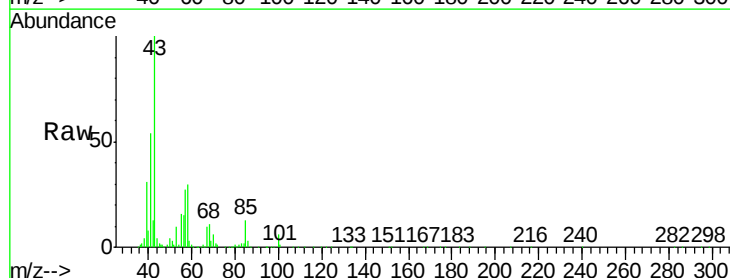
Instrument :
 MSVOA_L
 ClientSampleId :
 MID

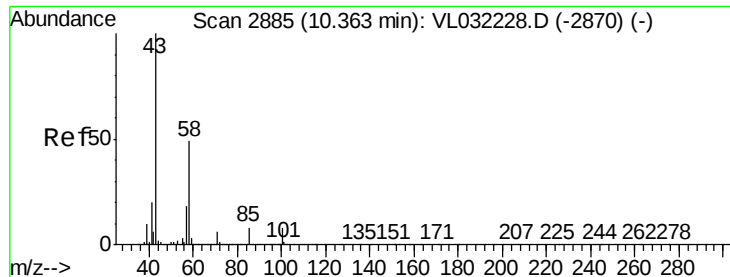
Tgt Ion: 57 Resp: 1569881
 Ion Ratio Lower Upper
 57 100
 41 32.9 24.7 37.1
 56 35.4 25.4 38.0



#50
 4-Methyl-2-Pentanone
 Concen: 0.713 ppbv
 RT: 8.96 min Scan# 2449
 Delta R.T. 0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion: 43 Resp: 317067
 Ion Ratio Lower Upper
 43 100
 58 32.2 29.5 44.3





#51

2-Hexanone

Concen: 0.262 ppbv

RT: 10.36 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampled :

MID

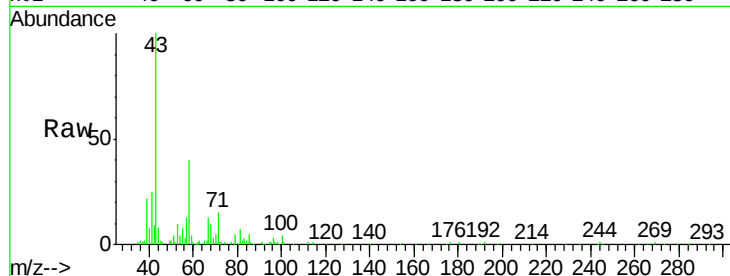
Tgt Ion: 43 Resp: 97434

Ion Ratio Lower Upper

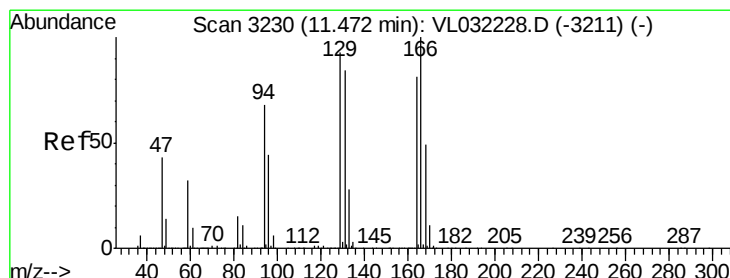
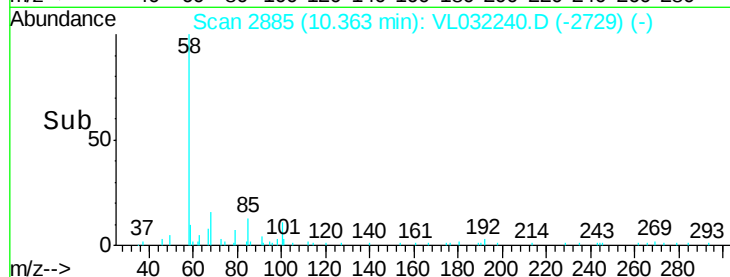
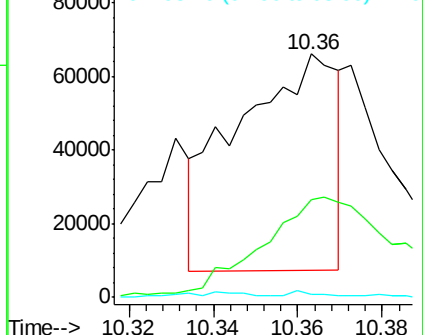
43 100

58 59.6 39.9 59.9

98 1.9 0.2 0.4#



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



#52

Tetrachloroethene

Concen: 0.045 ppbv

RT: 11.47 min Scan# 3229

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Tgt Ion: 164 Resp: 6278

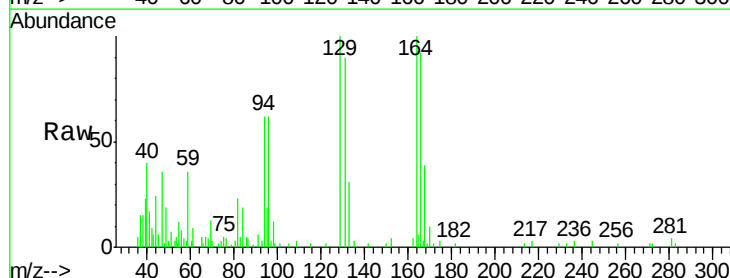
Ion Ratio Lower Upper

164 100

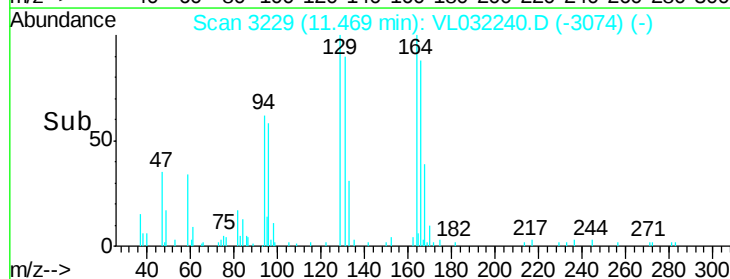
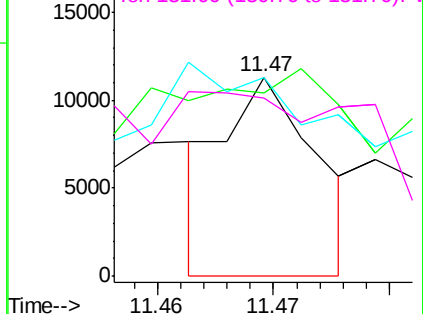
166 11.6 99.3 148.9#

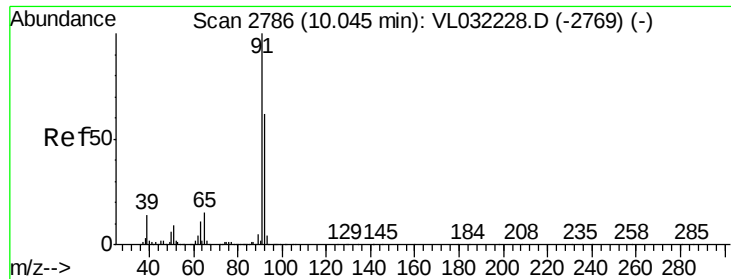
129 37.5 92.0 138.0#

131 10.0 83.8 125.8#



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: 5.200 ppbv

RT: 10.04 min Scan# 2784

Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

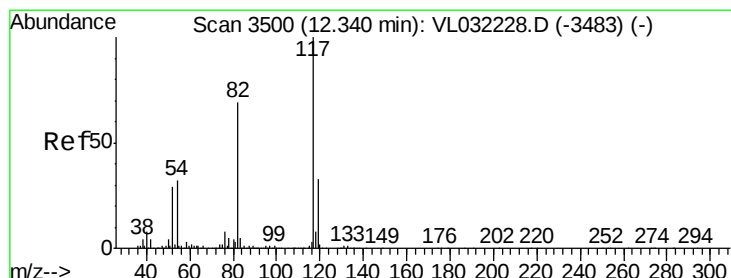
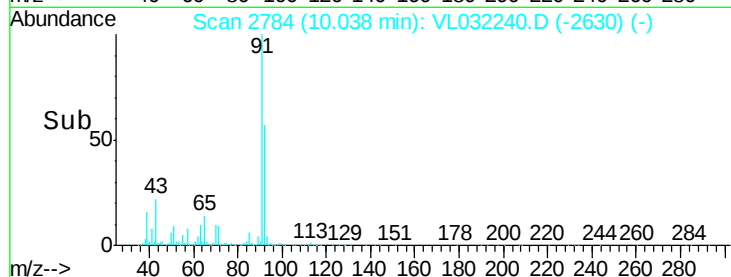
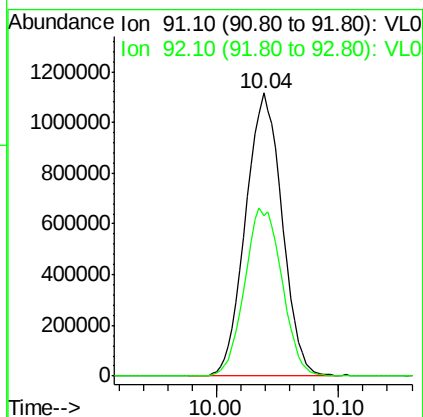
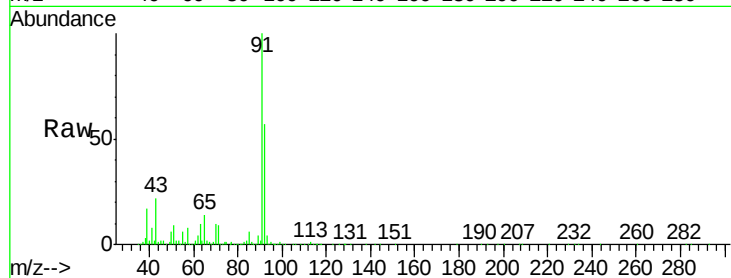
MID

Tgt Ion: 91 Resp: 2303666

Ion Ratio Lower Upper

91 100

92 60.8 49.0 73.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.34 min Scan# 3499

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

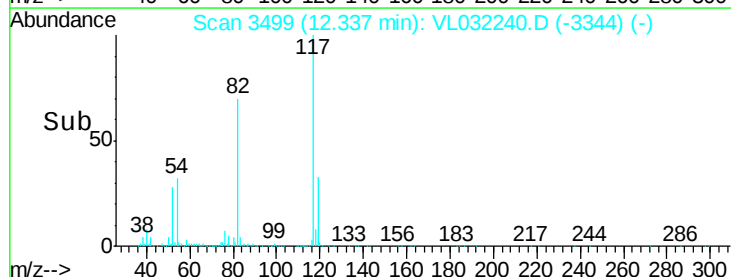
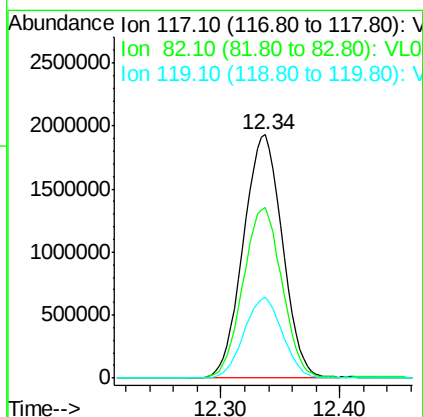
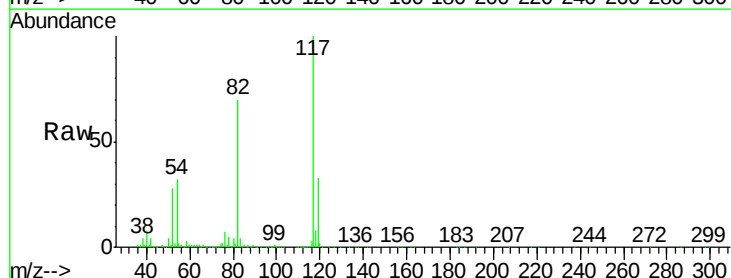
Tgt Ion: 117 Resp: 4392029

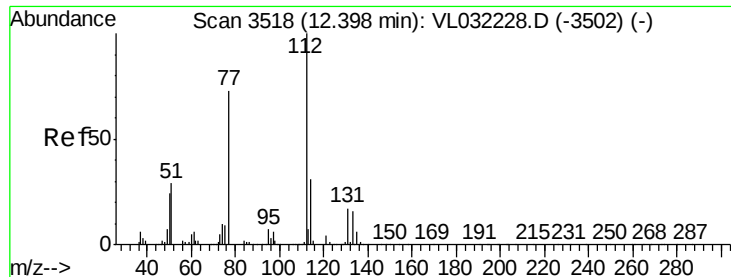
Ion Ratio Lower Upper

117 100

82 69.9 53.2 79.8

119 32.7 43.9 65.9#





#57

Chlorobenzene

Concen: 0.053 ppbv

RT: 12.39 min Scan# 3516

Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampled :

MID

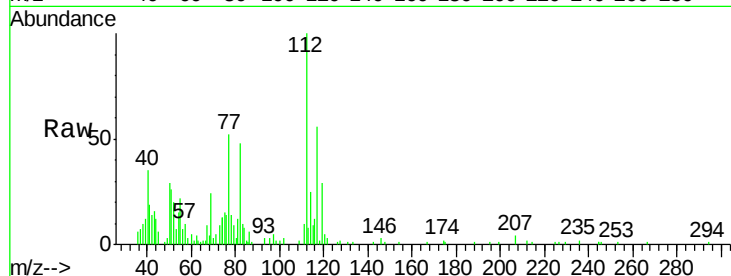
Tgt Ion: 112 Resp: 19523

Ion Ratio Lower Upper

112 100

77 0.0 58.8 88.2#

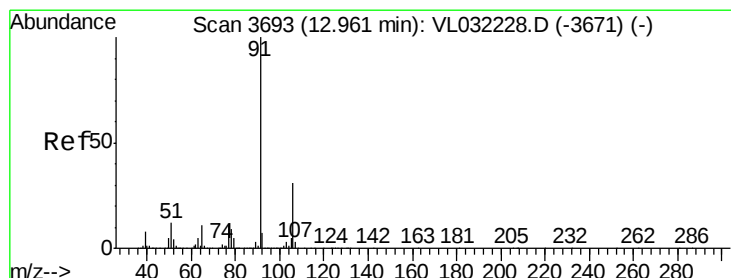
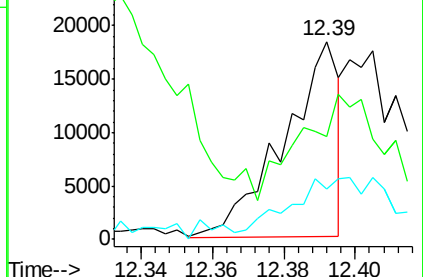
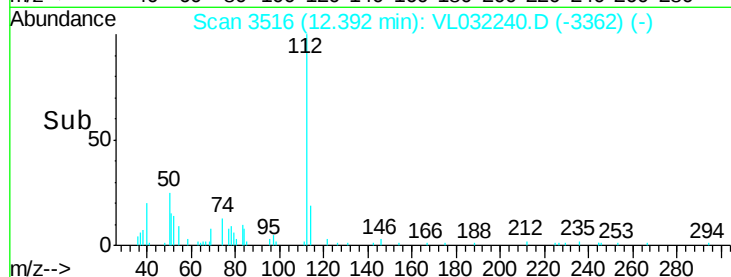
114 0.0 27.9 34.1#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 1.155 ppbv

RT: 12.96 min Scan# 3692

Delta R.T. -0.00 min

Lab File: VL032240.D

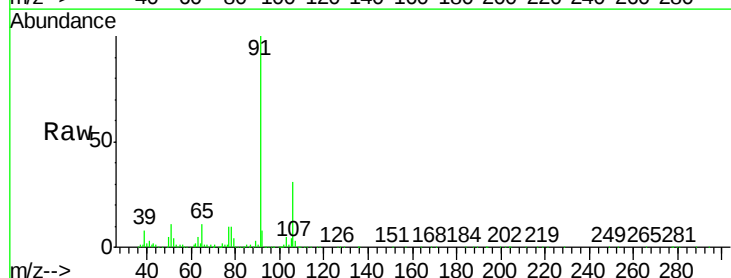
Acq: 13 Jul 2018 6:57

Tgt Ion: 91 Resp: 738791

Ion Ratio Lower Upper

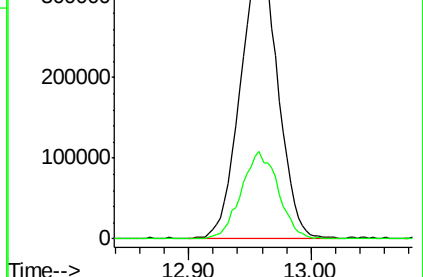
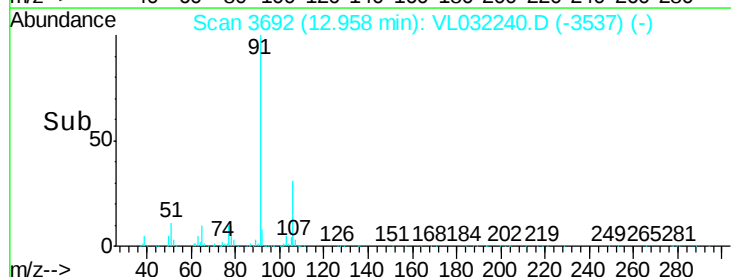
91 100

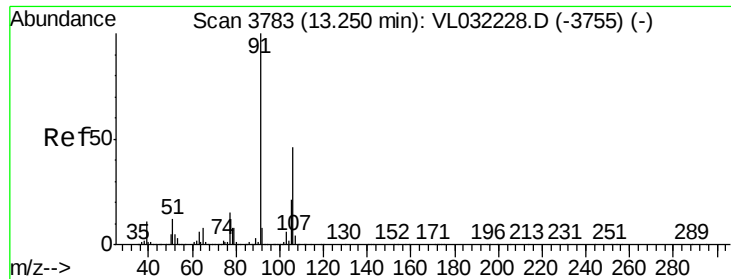
106 30.8 24.5 36.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

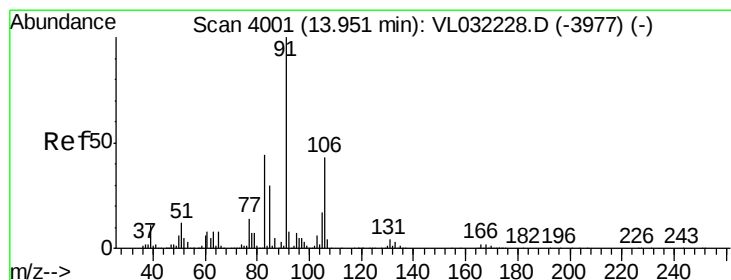
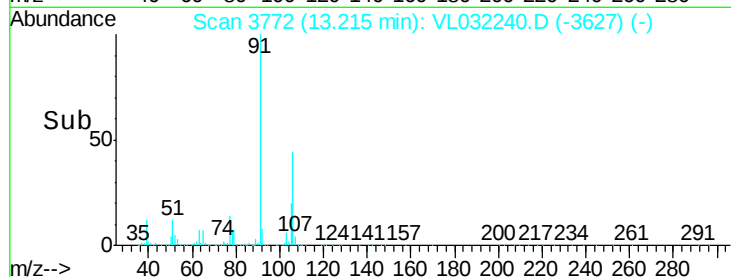
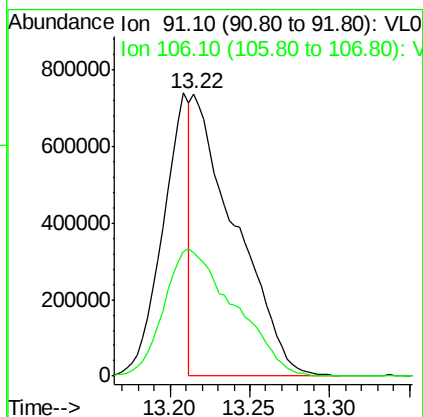
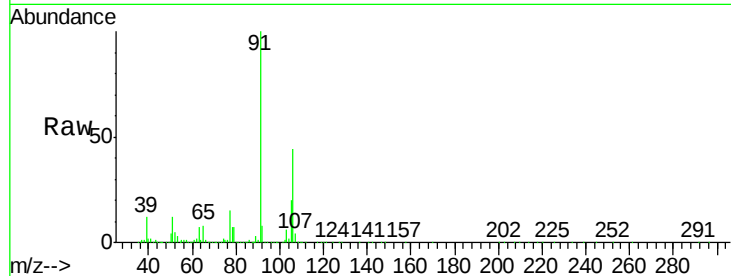




#59
m/p-Xylene
Concen: 2.615 ppbv
RT: 13.22 min Scan# 3772
Delta R.T. -0.04 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

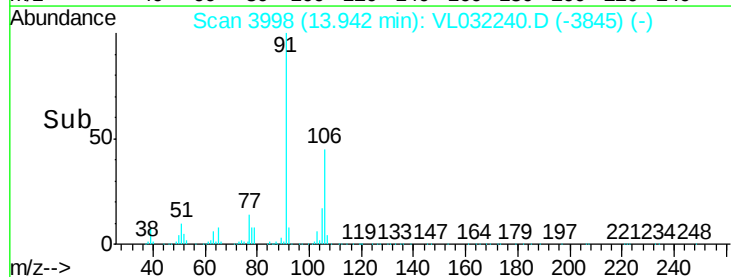
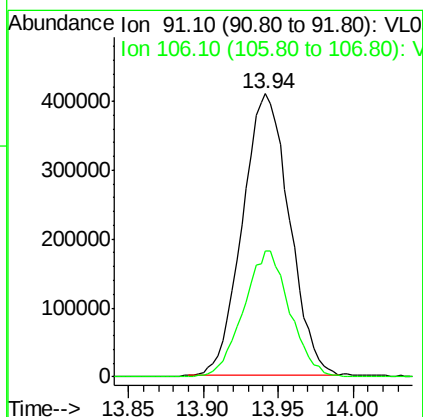
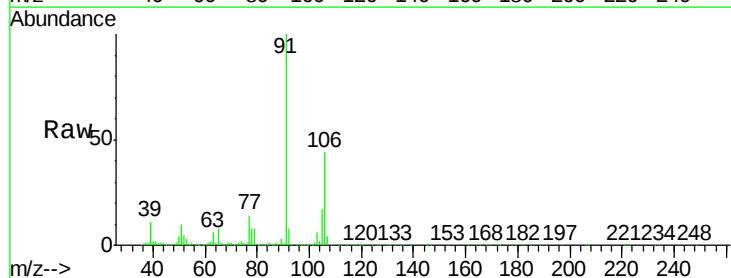
Instrument :
MSVOA_L
ClientSampleId :
MID

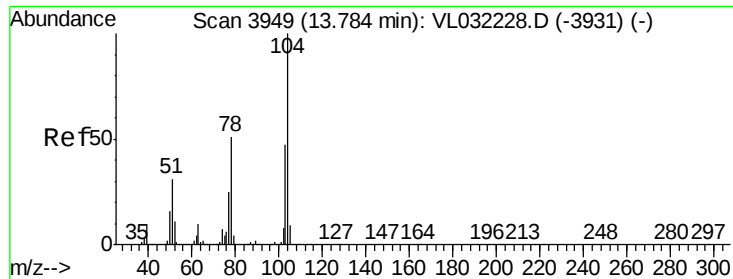
Tgt Ion: 91 Resp: 1376229
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#



#60
o-Xylene
Concen: 1.714 ppbv
RT: 13.94 min Scan# 3998
Delta R.T. -0.01 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion: 91 Resp: 890041
Ion Ratio Lower Upper
91 100
106 44.4 21.9 65.5





#61

Styrene

Concen: 0.118 ppbv

RT: 13.78 min Scan# 3948

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

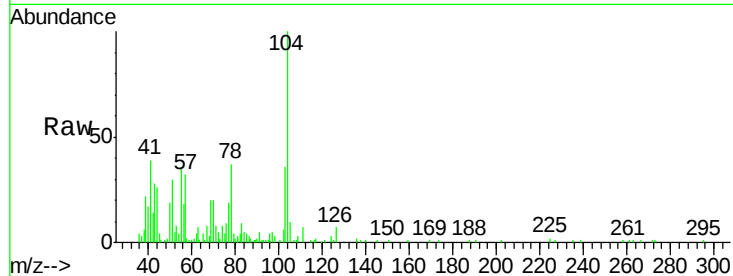
Tgt Ion:104 Resp: 45777

Ion Ratio Lower Upper

104 100

78 74.4 43.4 65.0#

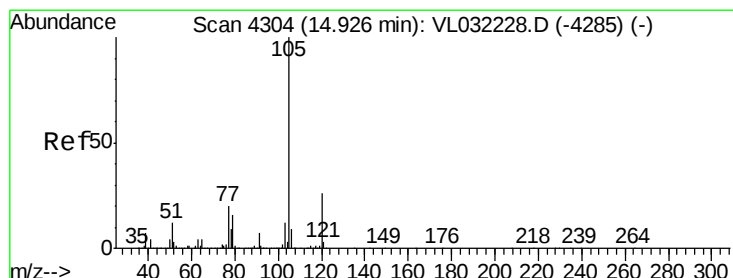
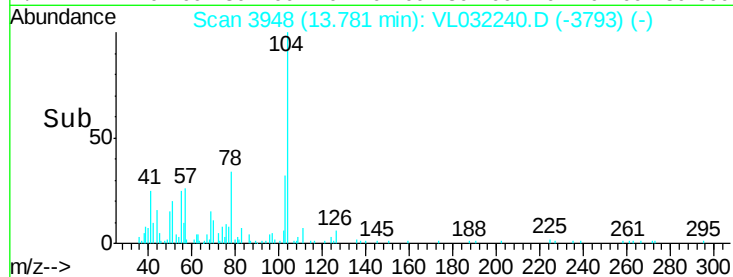
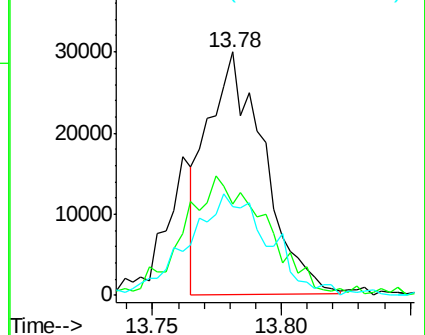
103 60.2 38.0 57.0#



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: 0.043 ppbv

RT: 14.92 min Scan# 4302

Delta R.T. -0.01 min

Lab File: VL032240.D

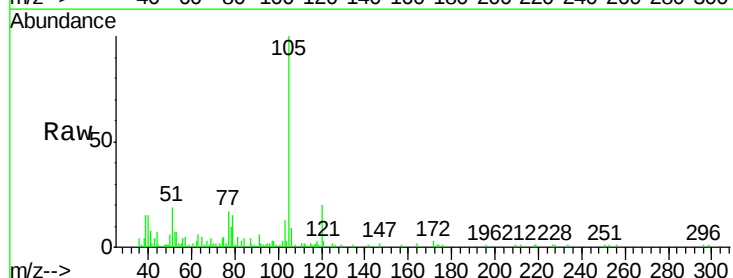
Acq: 13 Jul 2018 6:57

Tgt Ion:105 Resp: 31083

Ion Ratio Lower Upper

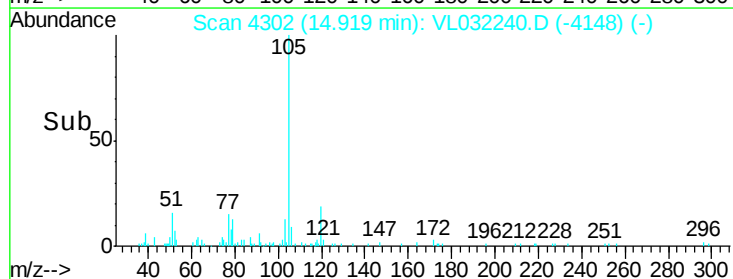
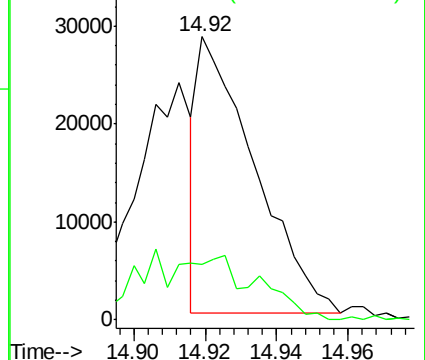
105 100

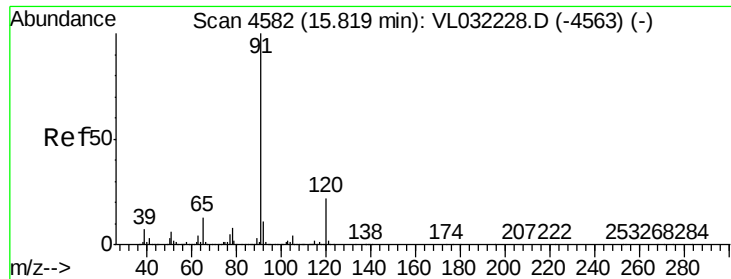
120 0.0 20.2 30.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.114 ppbv

RT: 15.81 min Scan# 4579

Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

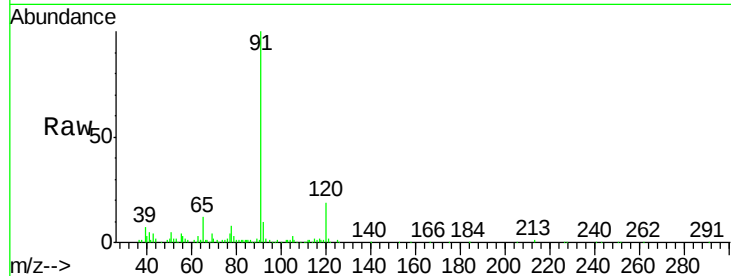
MID

Tgt Ion:120 Resp: 20929

Ion Ratio Lower Upper

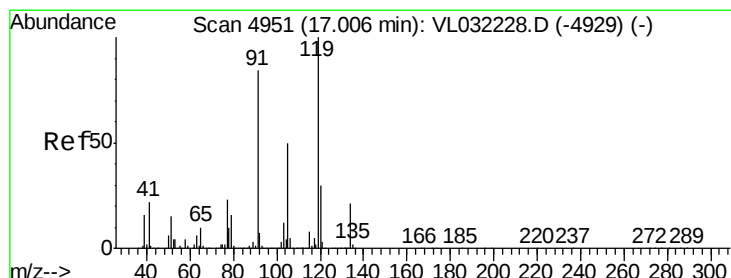
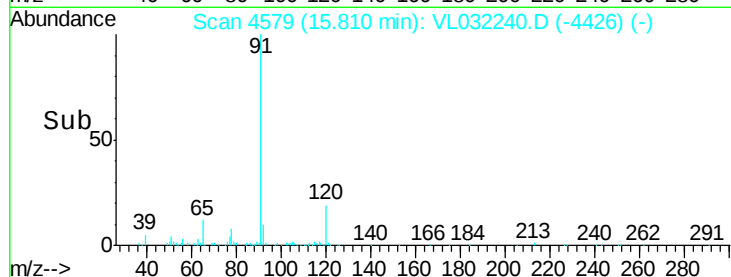
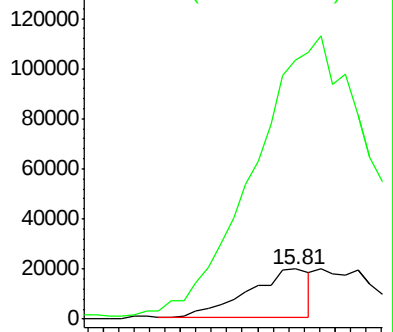
120 100

91 1170.2 385.0 577.4#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.178 ppbv

RT: 17.02 min Scan# 4954

Delta R.T. 0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

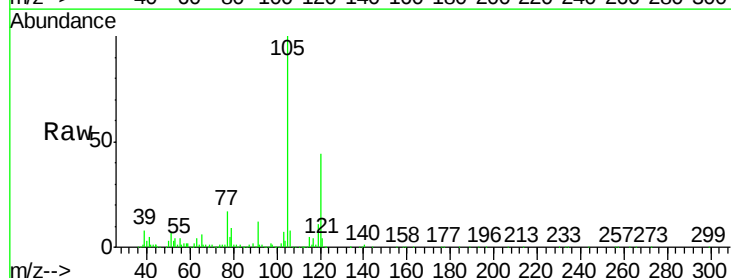
Tgt Ion:119 Resp: 108656

Ion Ratio Lower Upper

119 100

91 110.3 68.6 102.8#

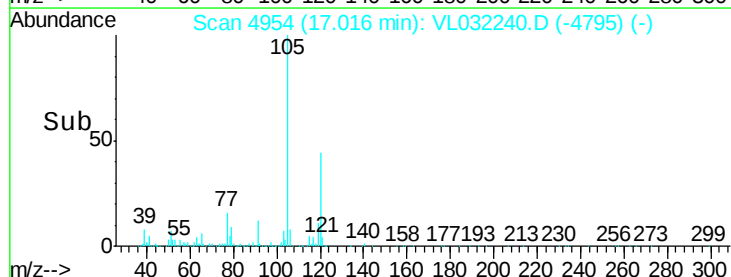
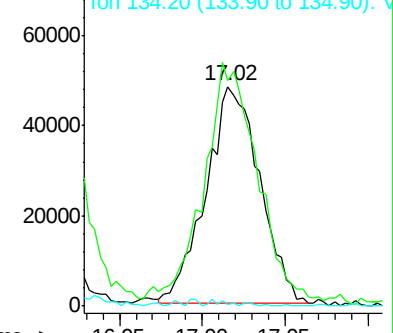
134 35.9 15.4 23.2#

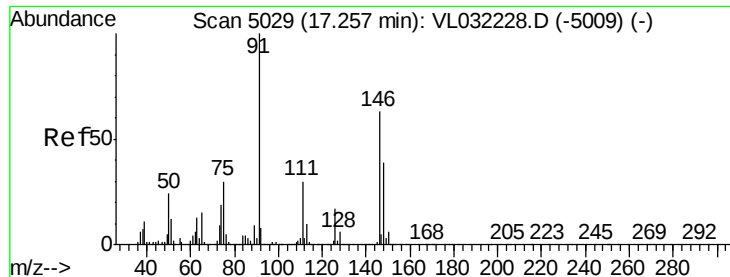


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

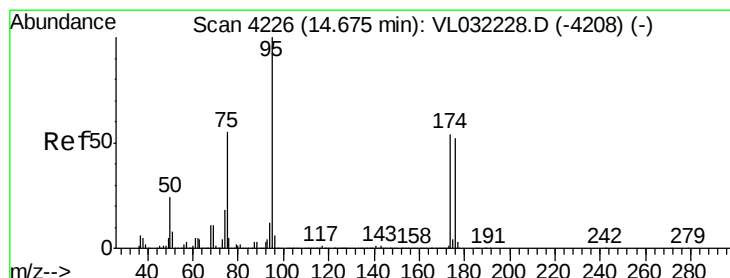
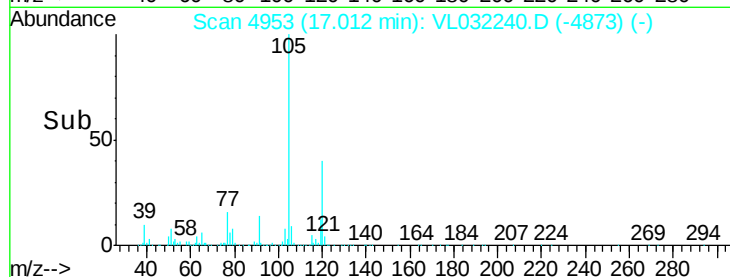
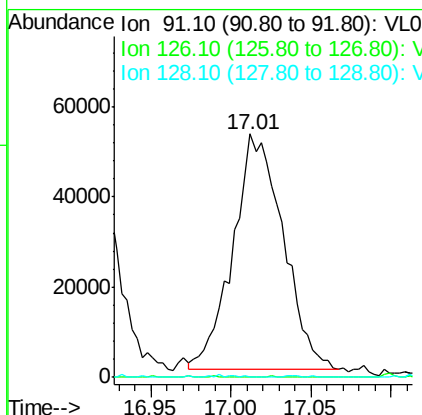
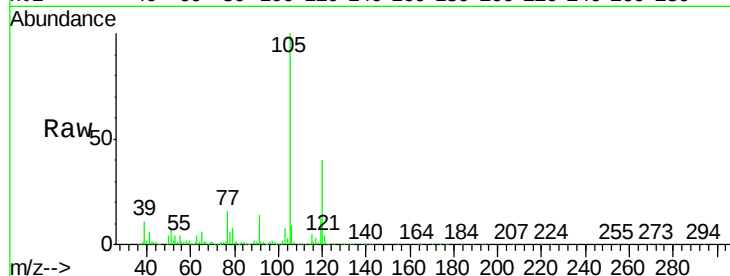




#66
Benzyl Chloride
Concen: 0.361 ppbv
RT: 17.01 min Scan# 4953
Delta R.T. -0.24 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

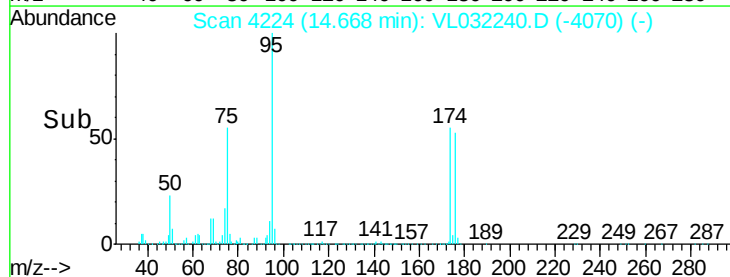
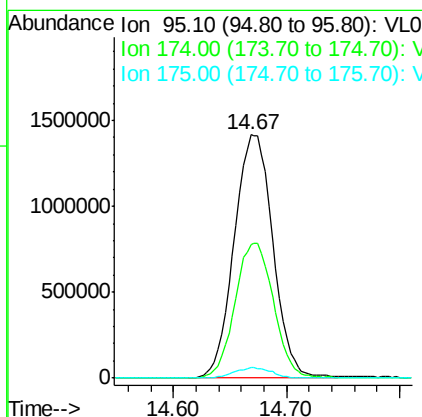
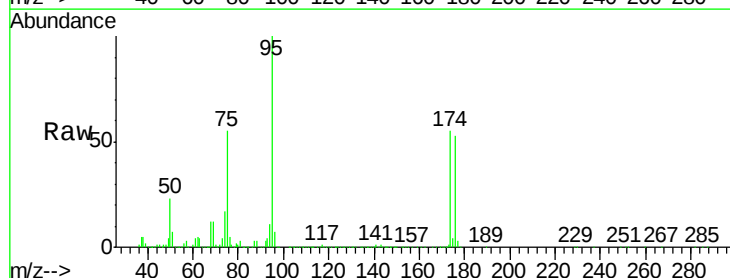
Instrument :
MSVOA_L
ClientSampleId :
MID

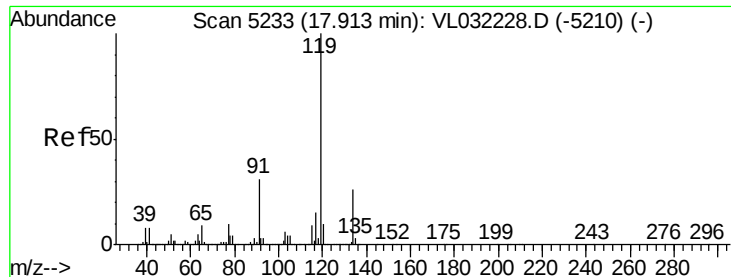
Tgt Ion: 91 Resp: 111494
Ion Ratio Lower Upper
91 100
126 0.0 13.4 20.0#
128 0.4 4.5 6.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.949 ppbv
RT: 14.67 min Scan# 4224
Delta R.T. -0.01 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion: 95 Resp: 3382585
Ion Ratio Lower Upper
95 100
174 55.7 44.6 67.0
175 4.1 3.3 4.9





#69

p-Isopropyltoluene

Concen: 2.622 ppbv

RT: 17.91 min Scan# 5233

Delta R.T. 0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

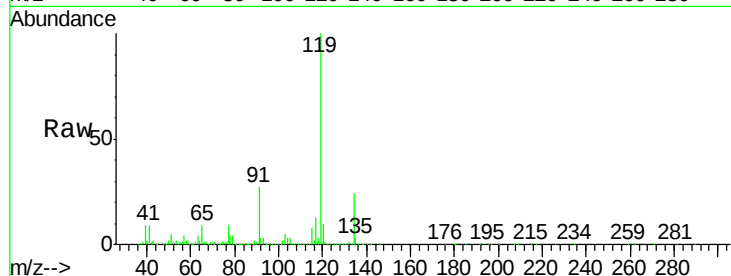
Tgt Ion: 119 Resp: 1819204

Ion Ratio Lower Upper

119 100

134 24.1 20.1 30.1

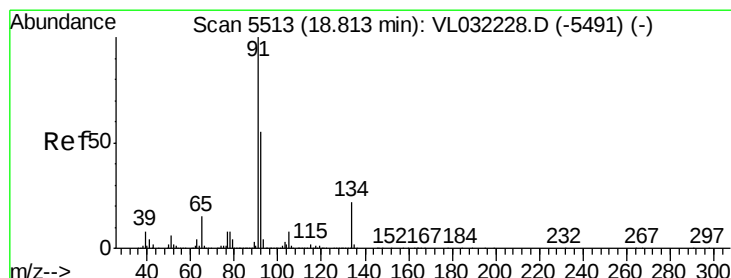
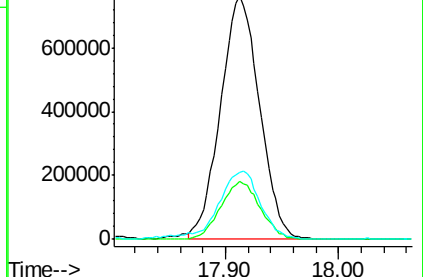
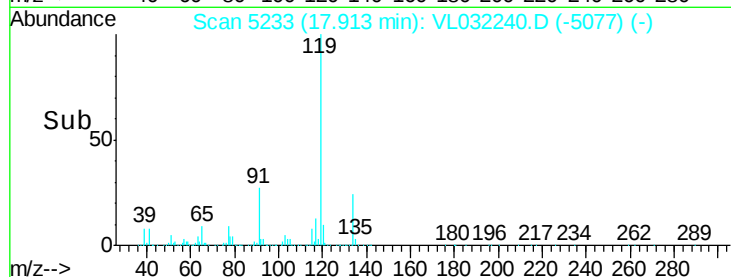
91 30.1 24.2 36.2



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.037 ppbv

RT: 18.83 min Scan# 5517

Delta R.T. 0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

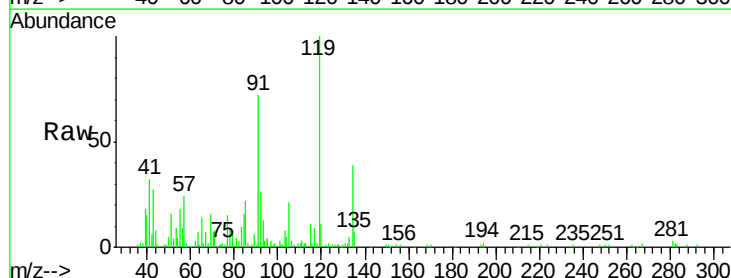
Tgt Ion: 91 Resp: 28340

Ion Ratio Lower Upper

91 100

92 0.0 43.6 65.4#

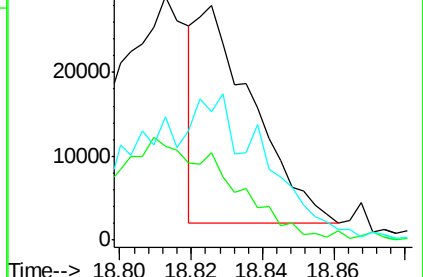
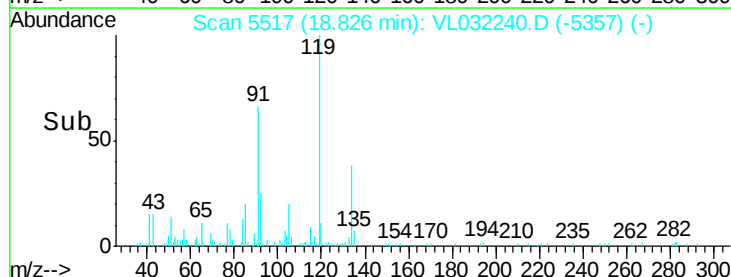
134 201.3 17.1 25.7#

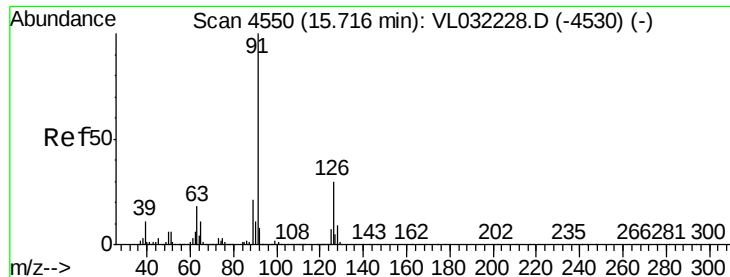


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.416 ppbv

RT: 15.82 min Scan# 4581

Delta R.T. 0.10 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

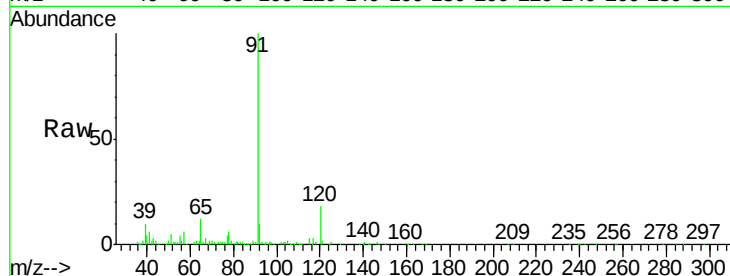
MID

Tgt Ion: 91 Resp: 238556

Ion Ratio Lower Upper

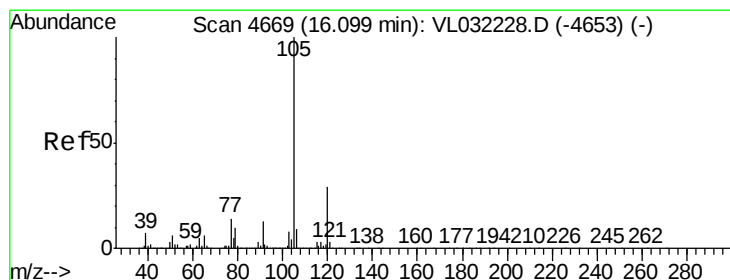
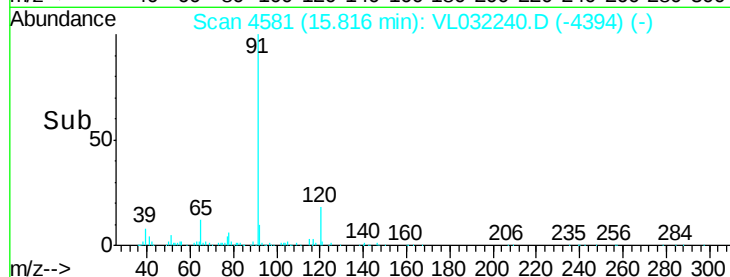
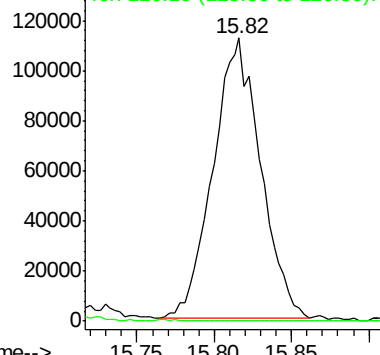
91 100

126 0.1 11.7 46.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.502 ppbv

RT: 16.10 min Scan# 4668

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Tgt Ion: 105 Resp: 292636

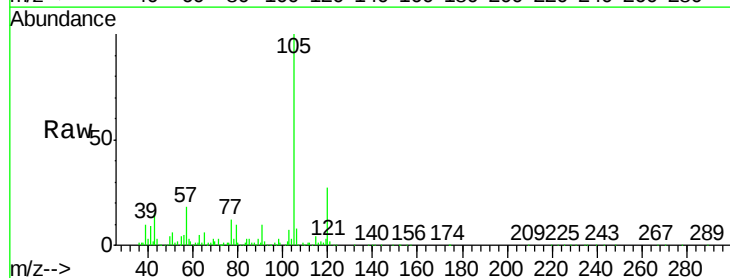
Ion Ratio Lower Upper

105 100

120 29.1 23.3 34.9

91 11.7 10.3 15.5

77 14.2 11.5 17.3

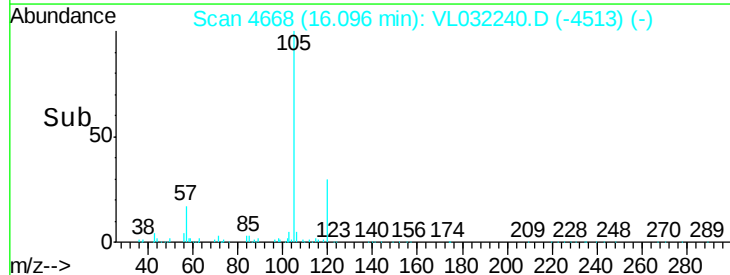
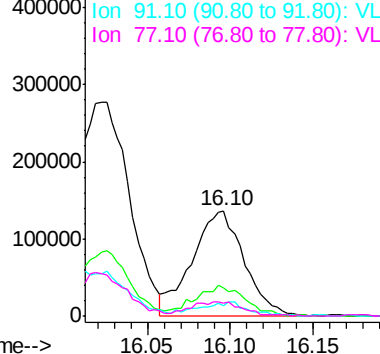


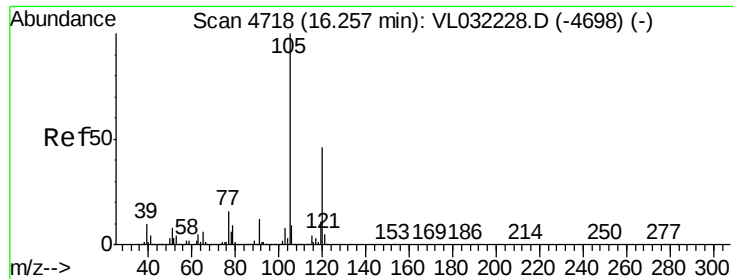
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.433 ppbv

RT: 16.25 min Scan# 4716

Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

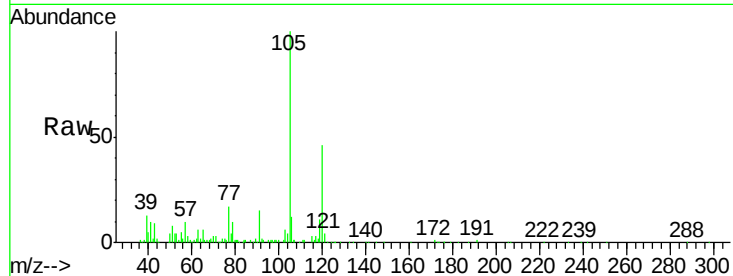
MID

Tgt Ion:105 Resp: 234630

Ion Ratio Lower Upper

105 100

120 45.2 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.25

120000

100000

80000

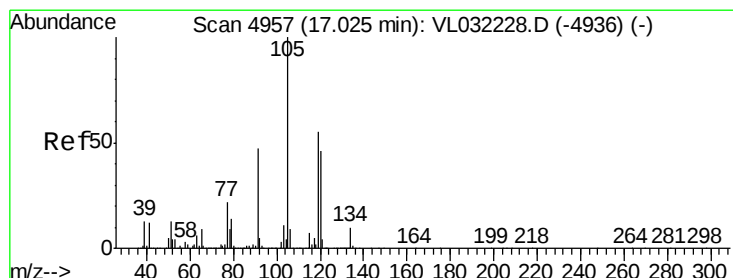
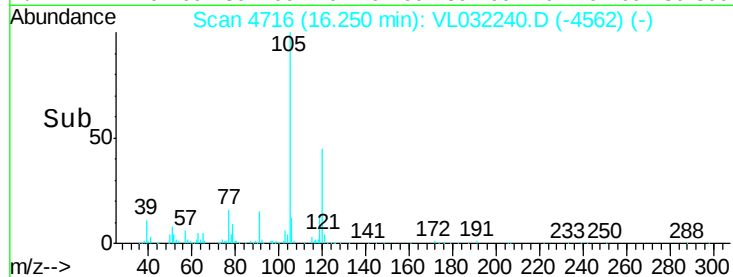
60000

40000

20000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.739 ppbv

RT: 17.02 min Scan# 4954

Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Tgt Ion:105 Resp: 963368

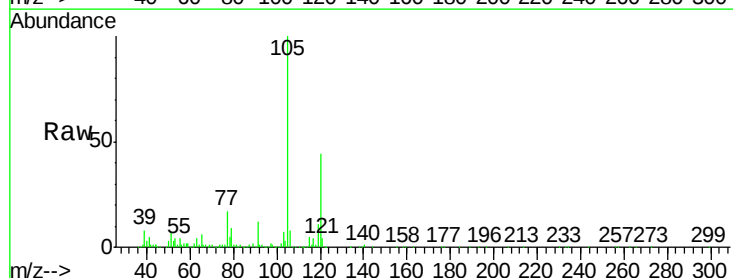
Ion Ratio Lower Upper

105 100

120 44.5 37.0 55.4

91 11.2 38.2 57.2#

77 16.6 17.7 26.5#



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

600000

500000

400000

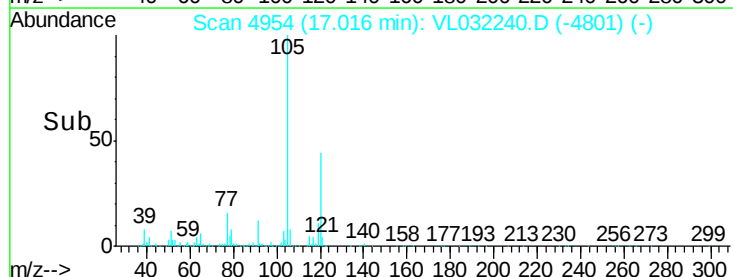
300000

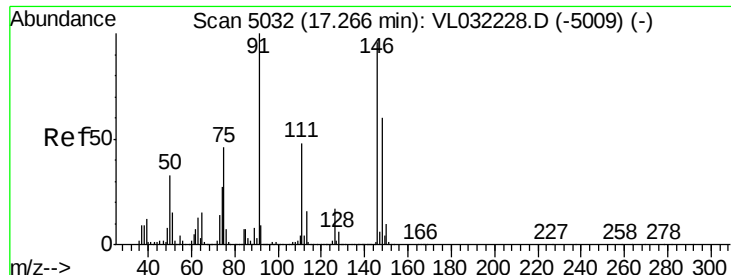
200000

100000

0

Time-->

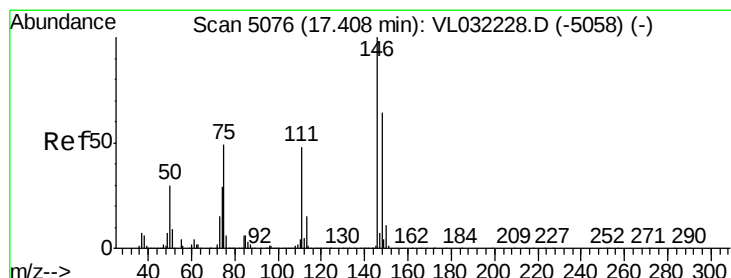
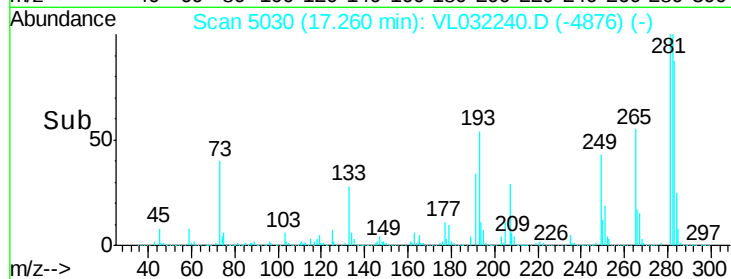
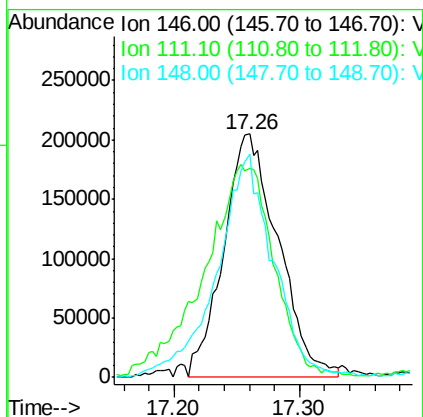
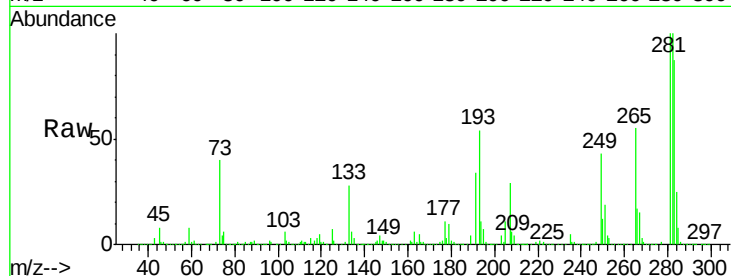




#75
 1,3-Dichlorobenzene
 Concen: 1.870 ppbv
 RT: 17.26 min Scan# 5030
 Delta R.T. -0.01 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

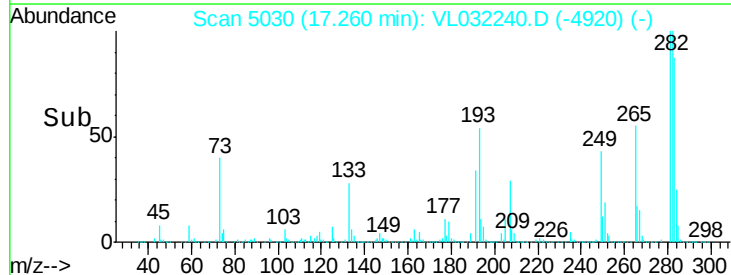
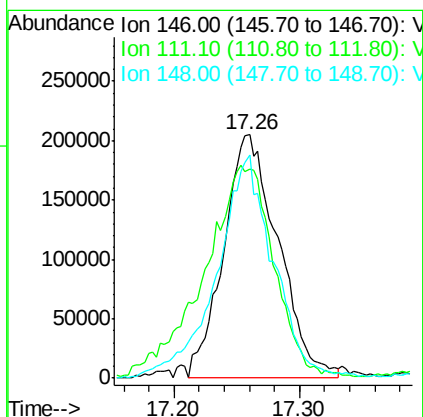
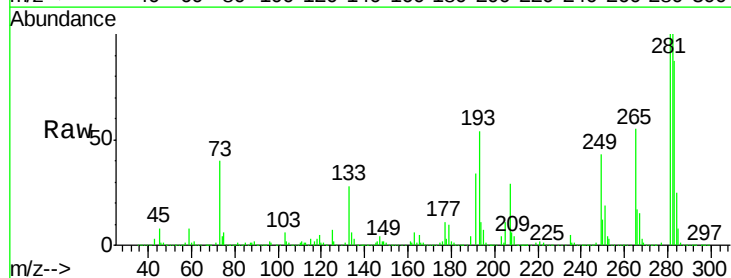
Instrument :
 MSVOA_L
 ClientSampled :
 MID

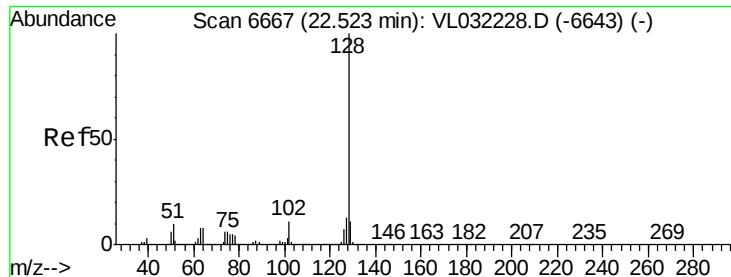
Tgt Ion:146 Resp: 617966
 Ion Ratio Lower Upper
 146 100
 111 113.2 24.9 74.7#
 148 95.8 31.9 95.5#



#76
 1,4-Dichlorobenzene
 Concen: 1.909 ppbv
 RT: 17.26 min Scan# 5030
 Delta R.T. -0.15 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion:146 Resp: 617966
 Ion Ratio Lower Upper
 146 100
 111 112.2 24.6 73.6#
 148 95.7 32.3 96.9





#79

Naphthalene

Concen: 0.169 ppbv

RT: 22.52 min Scan# 6666

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

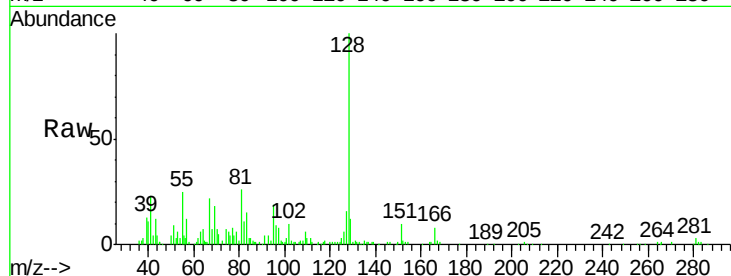
Tgt Ion:128 Resp: 62743

Ion Ratio Lower Upper

128 100

127 15.7 10.0 15.0#

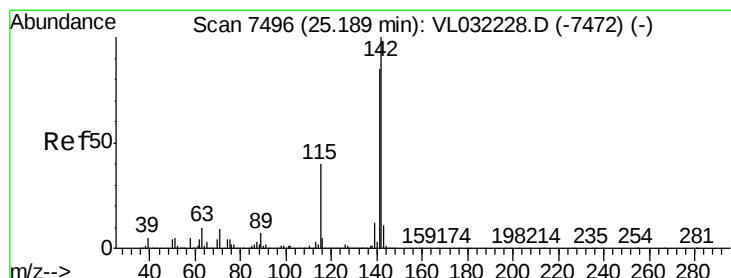
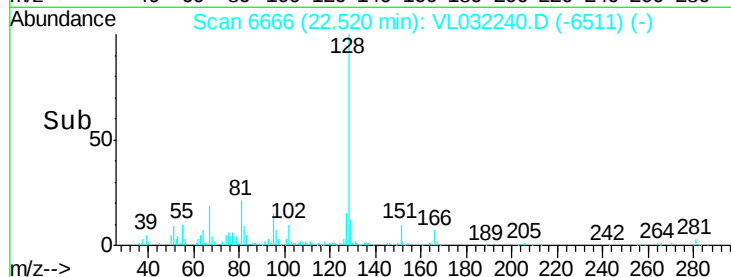
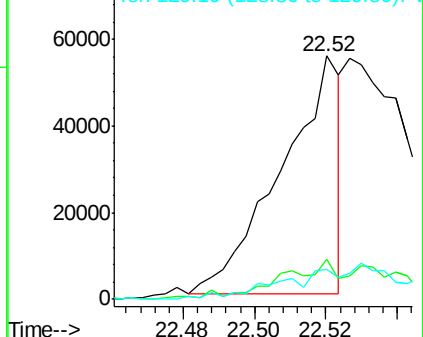
129 11.2 9.0 13.4



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: 0.498 ppbv

RT: 25.18 min Scan# 7494

Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

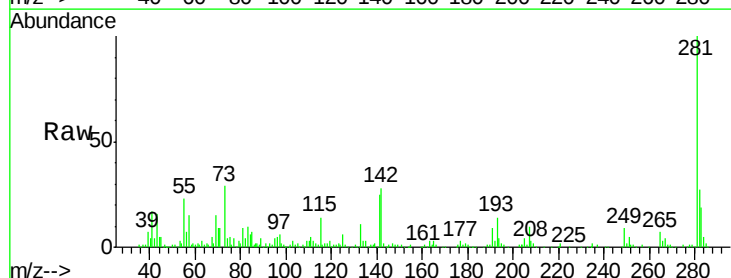
Tgt Ion:142 Resp: 59144

Ion Ratio Lower Upper

142 100

141 81.4 67.0 100.6

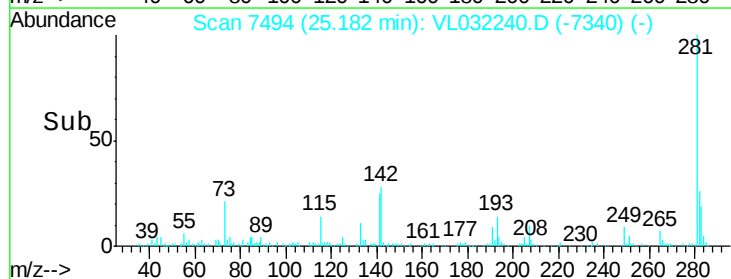
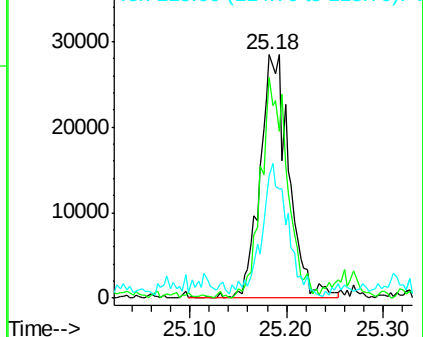
115 48.6 32.6 49.0

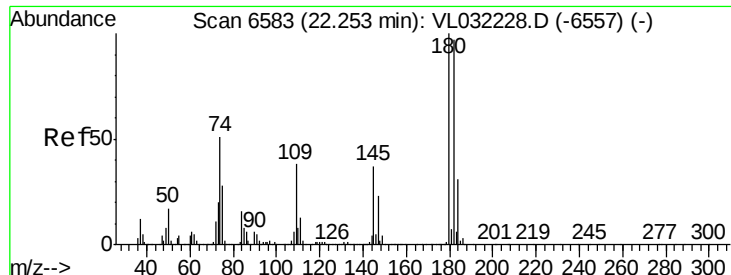


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

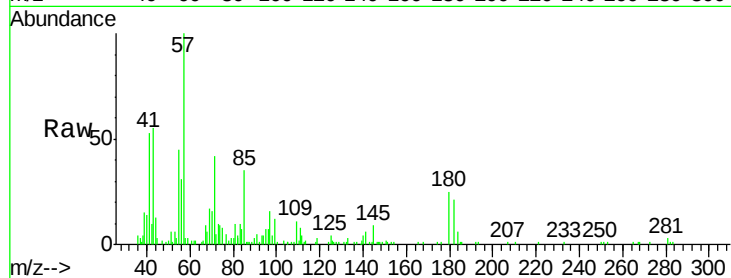




#81
 1,2,4-Trichlorobenzene
 Concen: 0.036 ppbv
 RT: 22.25 min Scan# 6582
 Delta R.T. -0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tgt Ion:180 Resp: 6711
 Ion Ratio Lower Upper
 180 100
 182 296.1 76.1 114.1#
 184 88.2 24.2 36.4#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

