

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032324.D
 Acq On : 27 Jul 2018 18:28
 Operator : SY/AP
 Sample : J4131-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 23:19:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1690452	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3469562	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	3979032	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3115193	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	31930	0.157	ppbv	93
3) Chlorodifluoromethane	3.06	51	750961	4.443	ppbv #	84
4) Chloromethane	3.22	50	40410	0.395	ppbv	98
7) Chloroethane	3.65	64	2832	0.086	ppbv #	33
9) Propene	3.08	41	311754	4.102	ppbv	96
10) Heptane	8.33	43	116891	0.438	ppbv	100
11) Trichlorofluoromethane	4.06	101	7056795	36.234	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.61	101	11764	0.088	ppbv	87
13) Ethanol	3.70	45	798514	36.561	ppbv	98
15) Acetone	3.95	43	2326190	14.600	ppbv #	74
16) 1,3-Butadiene	3.39	39	823330	9.967	ppbv #	9
17) tert-Butyl alcohol	4.43	59	33573	0.663	ppbv #	73
19) Isopropyl Alcohol	4.12	45	734150	6.906	ppbv #	1
20) Methylene Chloride	4.47	84	324457	5.067	ppbv	95
21) Allyl Chloride	4.47	41	3621	0.033	ppbv #	1
23) Vinyl Acetate	5.21	43	92349	0.323	ppbv #	34
25) Ethyl Acetate	5.84	43	577219	1.614	ppbv #	97
26) Hexane	5.85	57	367476	2.271	ppbv #	72
27) Carbon Disulfide	4.68	76	84949	0.578	ppbv #	86
28) Methyl tert-Butyl Ether	5.18	73	27652	0.126	ppbv #	51
29) Chloroform	5.92	83	289603	1.231	ppbv	91
30) Cyclohexane	7.32	84	54865	0.435	ppbv #	76
32) 1,1,1-Trichloroethane	6.69	97	138027	0.663	ppbv	97
34) 2-Butanone	5.39	43	6843367	30.473	ppbv	99
35) Carbon Tetrachloride	7.21	117	8471	0.043	ppbv #	72
36) Benzene	7.08	78	36173	0.118	ppbv	93
37) 1,2-Dichloroethane	6.49	62	20551	0.116	ppbv	98
38) Trichloroethene	8.04	130	15022	0.127	ppbv #	66
39) 1,2-Dichloropropane	7.37	63	941813	6.121	ppbv #	27
41) Tetrahydrofuran	6.23	42	37820	0.298	ppbv #	87
43) Methyl Methacrylate	8.22	69	8765	0.060	ppbv #	85
44) 2,2,4-Trimethylpentane	8.07	57	37667	0.057	ppbv #	43
50) 4-Methyl-2-Pentanone	8.95	43	33432	0.084	ppbv #	39
51) 2-Hexanone	10.35	43	1296902	4.295	ppbv #	99
52) Tetrachloroethene	11.46	164	69274	0.672	ppbv	91
53) Toluene	10.03	91	2075464	5.677	ppbv	100
58) Ethyl Benzene	12.94	91	1506436	3.020	ppbv	91
59) m/p-Xylene	13.21	91	4224552	9.947	ppbv	99
60) o-Xylene	13.93	91	2098131	5.039	ppbv	97
61) Styrene	13.77	104	2412951	7.873	ppbv	99
62) Isopropylbenzene	14.91	105	1386413	2.344	ppbv	99

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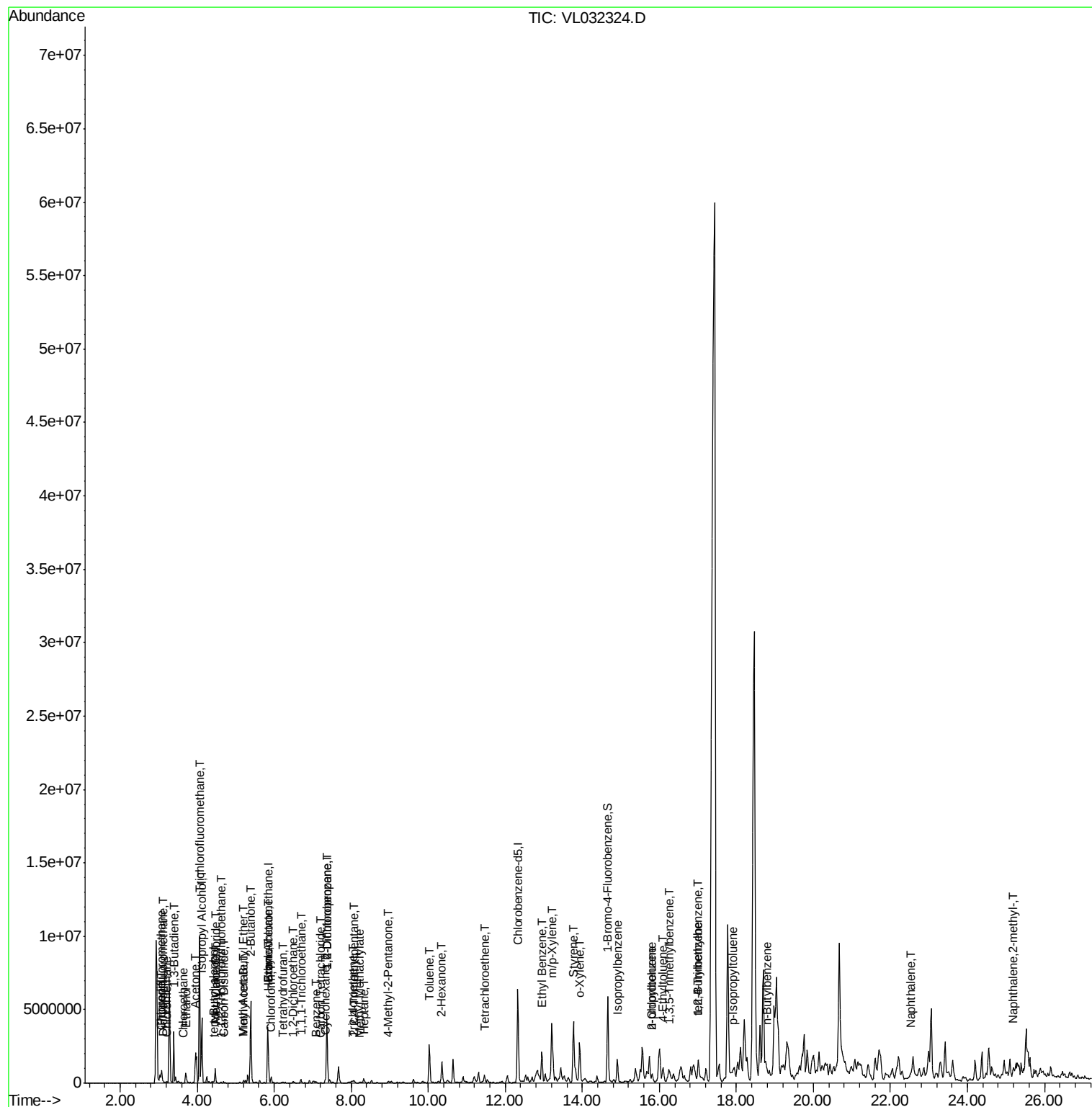
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) n-propylbenzene	15.81	120	81172	0.527	ppbv	79
65) tert-Butylbenzene	17.01	119	115870	0.232	ppbv #	67
69) p-Isopropyltoluene	17.91	119	379580	0.655	ppbv #	92
70) n-Butylbenzene	18.81	91	38866	0.058	ppbv #	62
71) 2-Chlorotoluene	15.81	91	416278	0.897	ppbv #	46
72) 4-Ethyltoluene	16.08	105	464265	0.995	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	510844	1.112	ppbv	98
74) 1,2,4-Trimethylbenzene	17.01	105	1064121	2.197	ppbv #	71
79) Naphthalene	22.52	128	234368	0.558	ppbv	96
80) Naphthalene,2-methyl-	25.18	142	23119	0.139	ppbv #	80

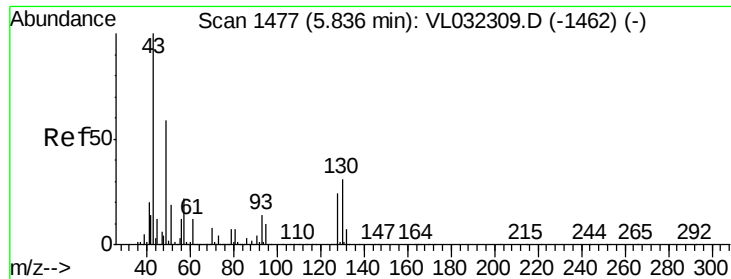
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

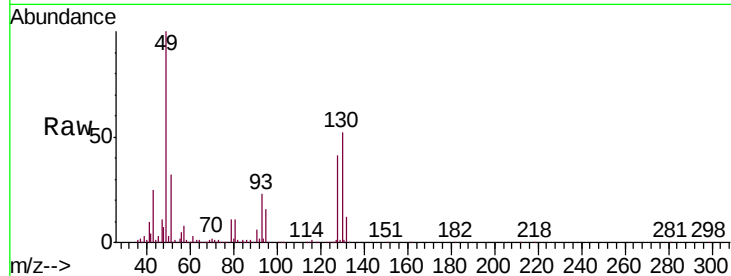
Tot Ion: 49 Resp: 1690452

Ion Ratio Lower Upper

49 100

128 40.0 20.2 60.6

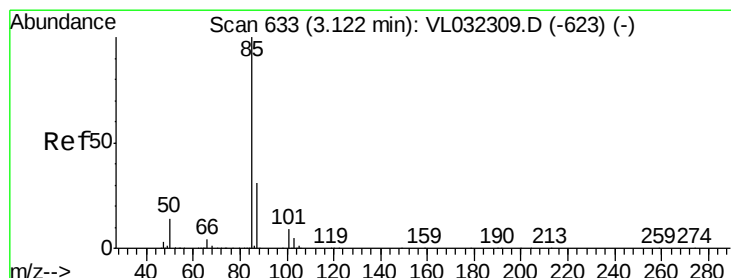
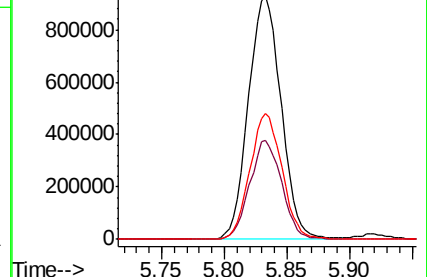
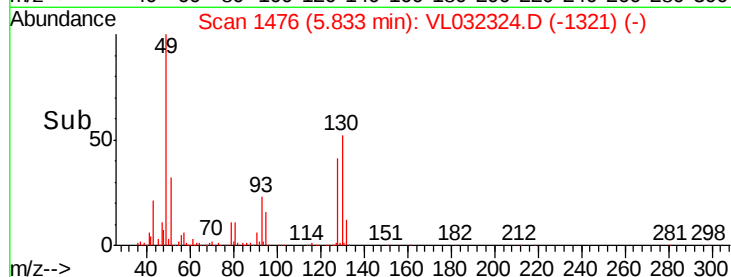
130 50.9 25.8 77.3



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: 0.157 ppbv

RT: 3.12 min Scan# 631

Delta R.T. -0.01 min

Lab File: VL032324.D

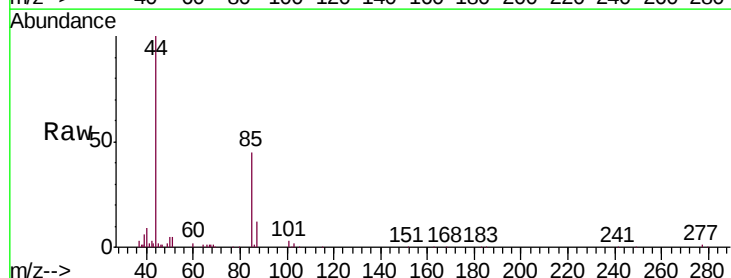
Acq: 27 Jul 2018 18:28

Tgt Ion: 85 Resp: 31930

Ion Ratio Lower Upper

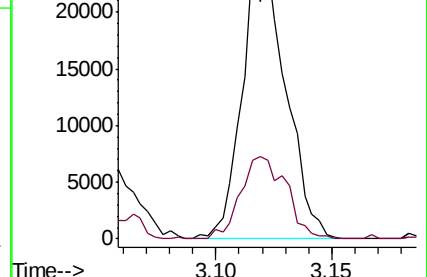
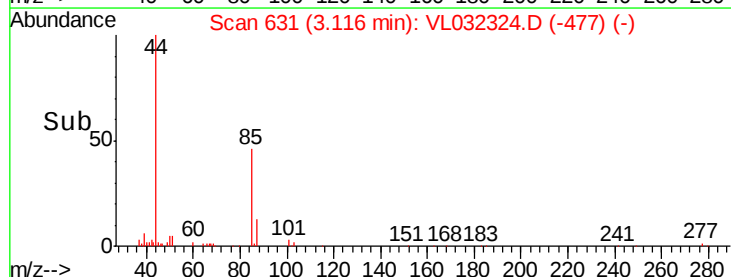
85 100

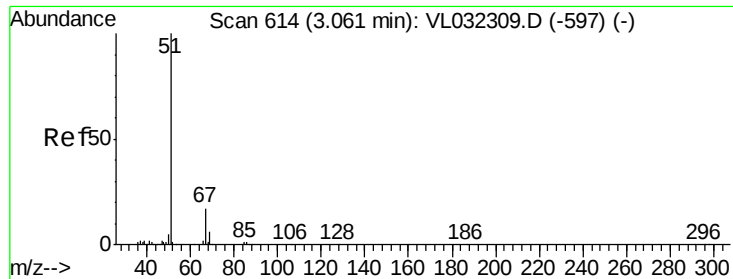
87 27.8 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

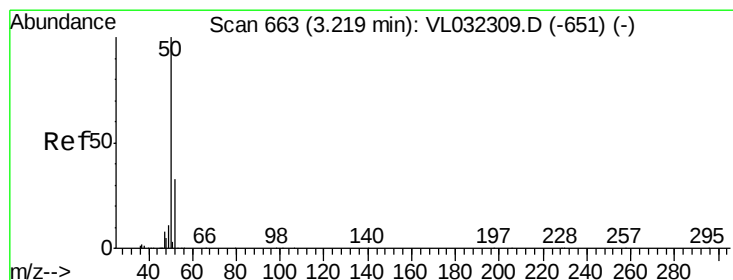
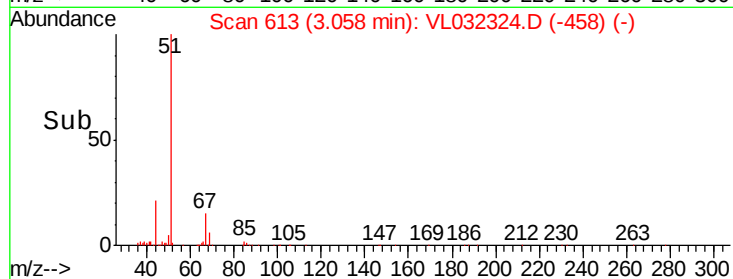
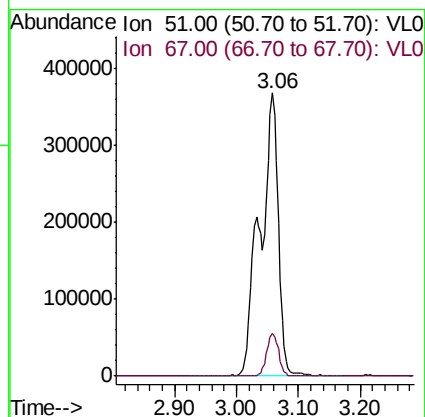
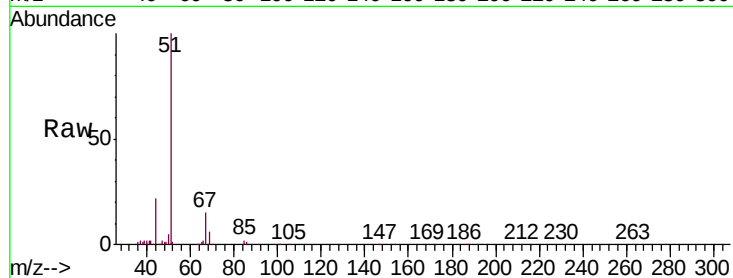




#3
Chlorodifluoromethane
Concen: 4.443 ppbv
RT: 3.06 min Scan# 613
Delta R.T. -0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

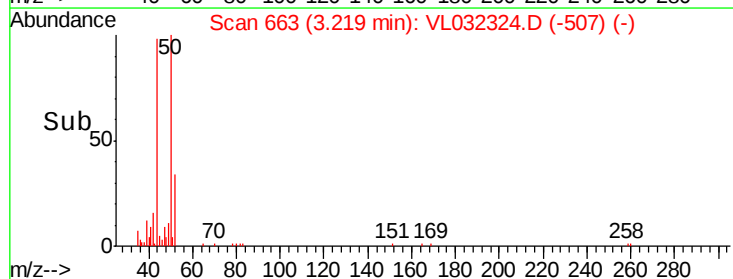
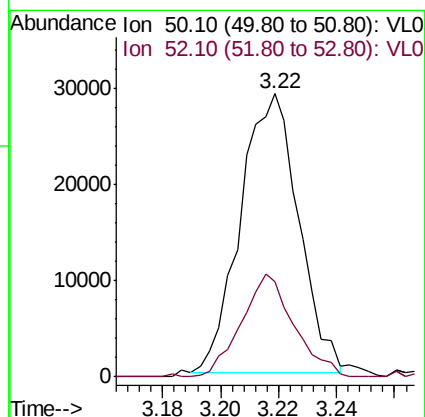
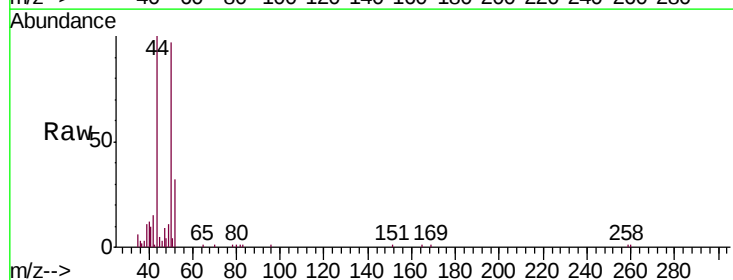
Instrument :
MSVOA_L
ClientSampleId :

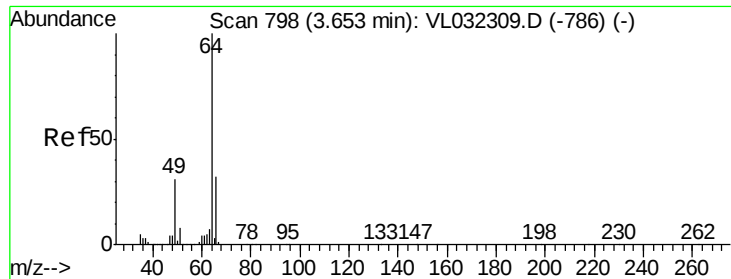
Tot Ion: 51 Resp: 750961
Ion Ratio Lower Upper
51 100
67 9.9 13.5 20.3#



#4
Chloromethane
Concen: 0.395 ppbv
RT: 3.22 min Scan# 663
Delta R.T. 0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 50 Resp: 40410
Ion Ratio Lower Upper
50 100
52 34.0 26.2 39.4





#7

Chloroethane

Concen: 0.086 ppbv

RT: 3.65 min Scan# 797

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

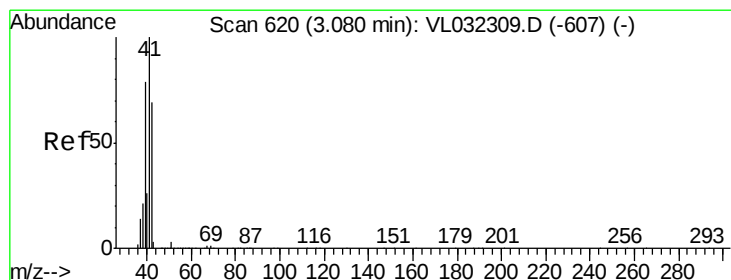
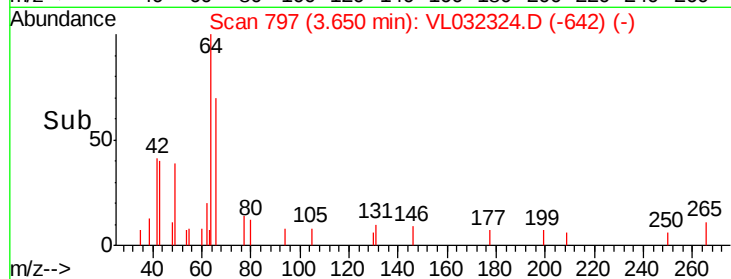
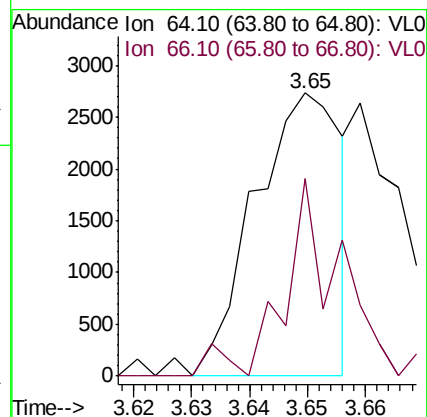
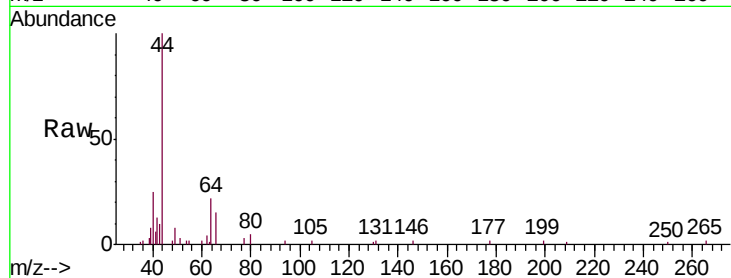
ClientSampleId :

Tot Ion: 64 Resp: 2832

Ion Ratio Lower Upper

64 100

66 69.7 25.7 38.5#



#9

Propene

Concen: 4.102 ppbv

RT: 3.08 min Scan# 620

Delta R.T. 0.00 min

Lab File: VL032324.D

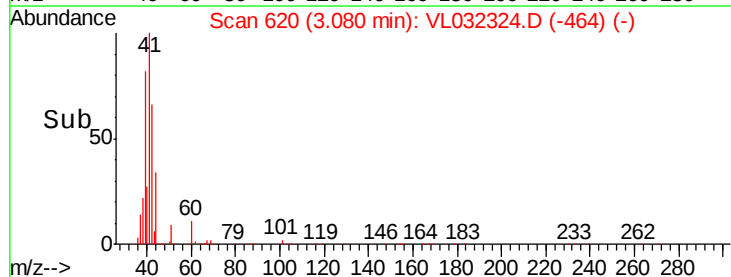
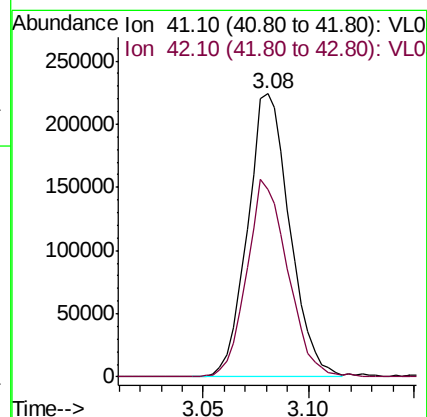
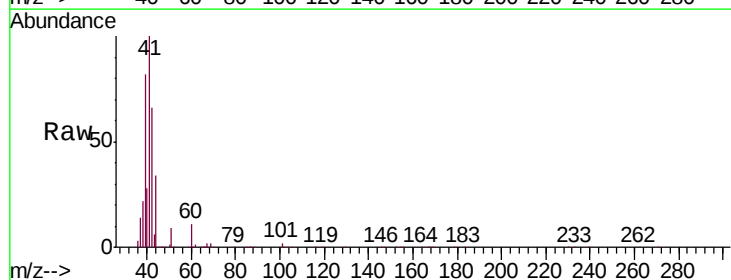
Acq: 27 Jul 2018 18:28

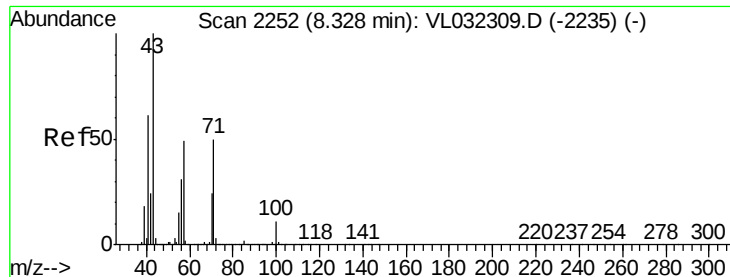
Tgt Ion: 41 Resp: 311754

Ion Ratio Lower Upper

41 100

42 68.0 56.8 85.2

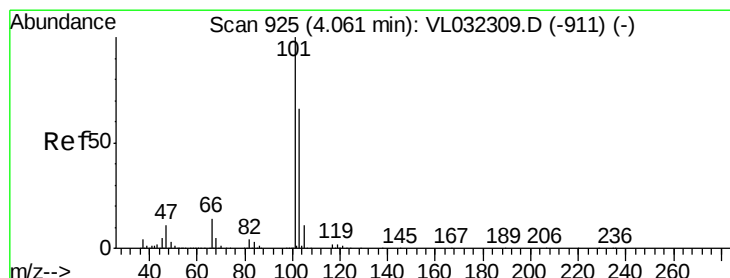
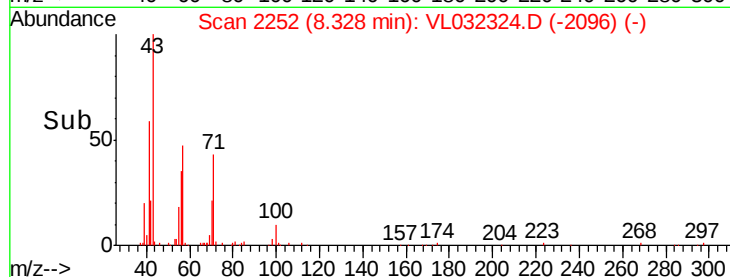
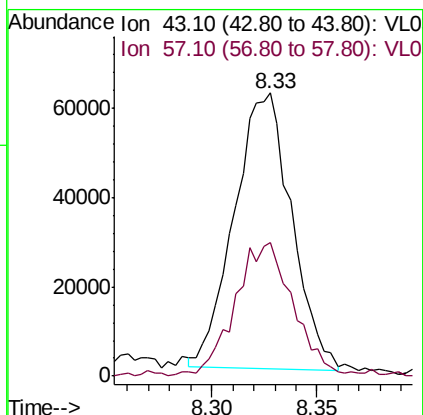
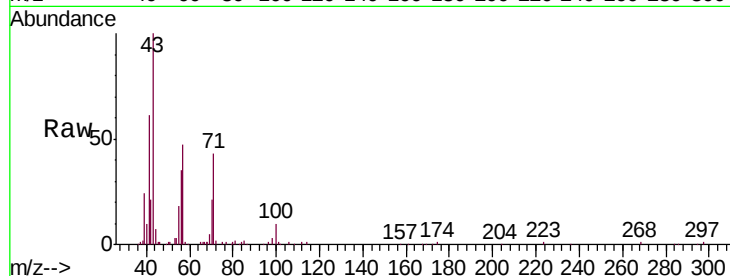




#10
 Heptane
 Concen: 0.438 ppbv
 RT: 8.33 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

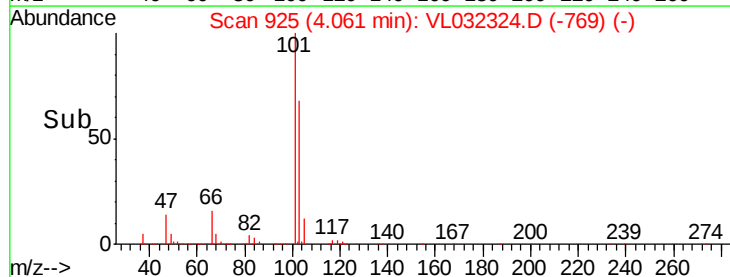
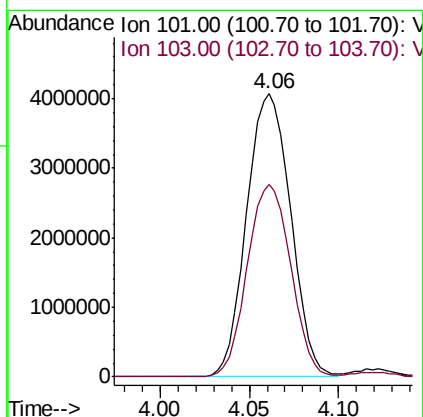
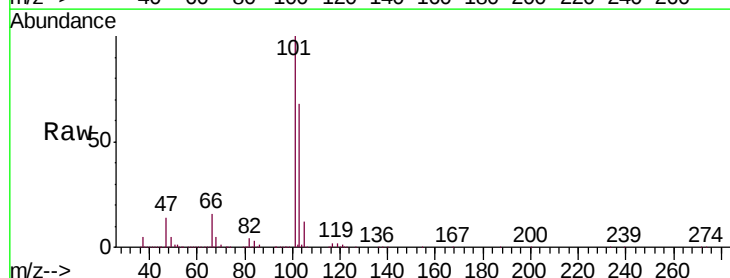
Instrument :
 MSVOA_L
 ClientSampleId :

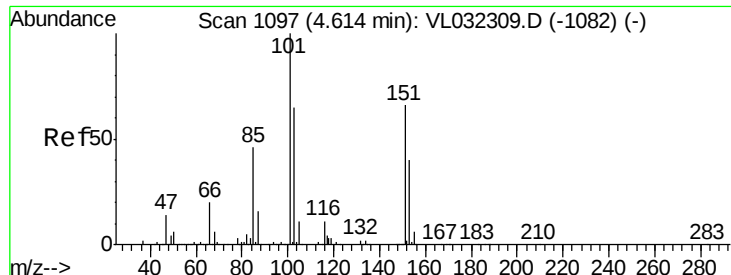
Tot Ion: 43 Resp: 116891
 Ion Ratio Lower Upper
 43 100
 57 48.6 39.0 58.4



#11
 Trichlorofluoromethane
 Concen: 36.234 ppbv
 RT: 4.06 min Scan# 925
 Delta R.T. 0.00 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Tgt Ion:101 Resp: 7056795
 Ion Ratio Lower Upper
 101 100
 103 68.1 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.088 ppbv

RT: 4.61 min Scan# 1097

Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

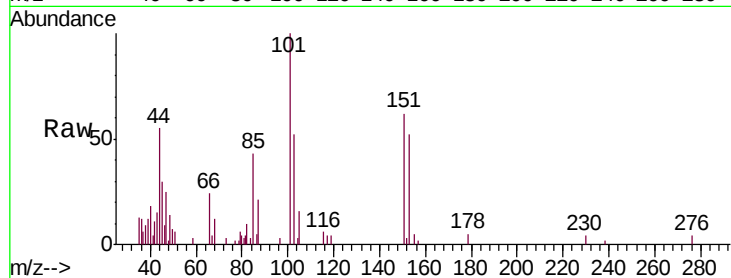
ClientSampleId :

Tot Ion:101 Resp: 11764

Ion Ratio Lower Upper

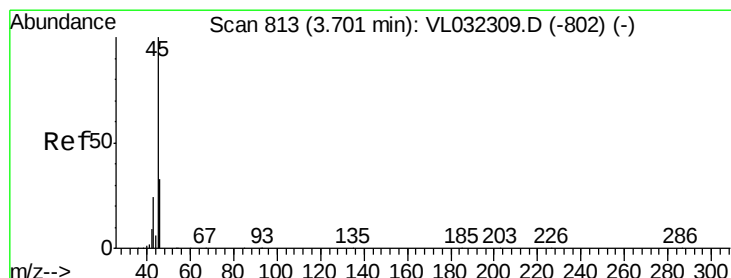
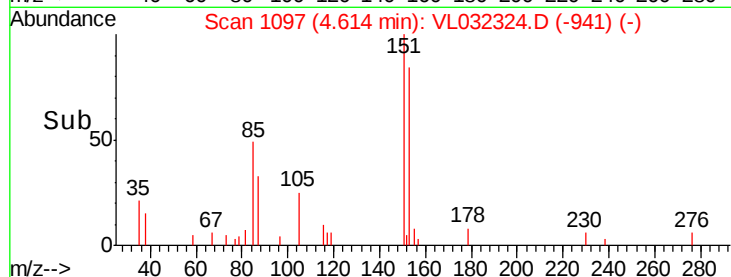
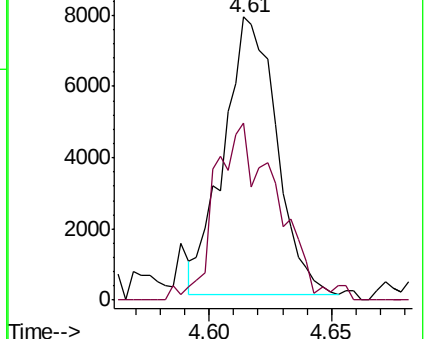
101 100

151 75.6 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 36.561 ppbv

RT: 3.70 min Scan# 814

Delta R.T. 0.00 min

Lab File: VL032324.D

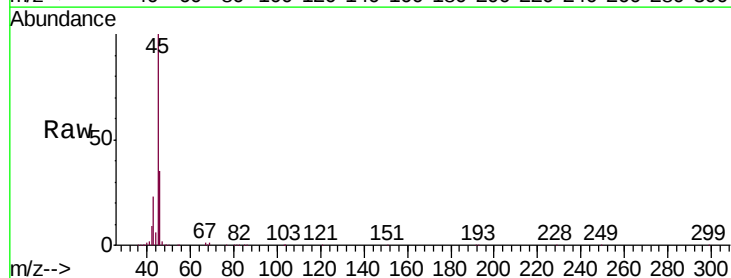
Acq: 27 Jul 2018 18:28

Tgt Ion: 45 Resp: 798514

Ion Ratio Lower Upper

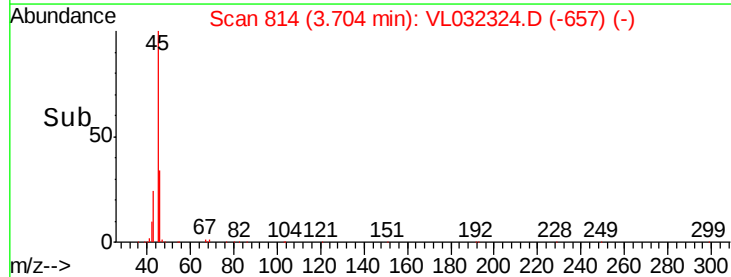
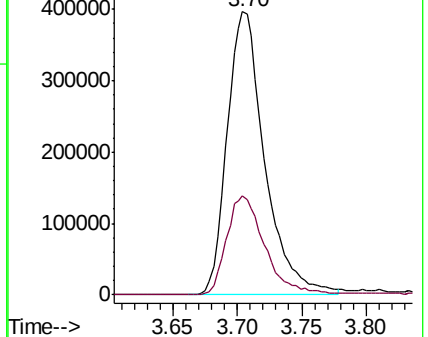
45 100

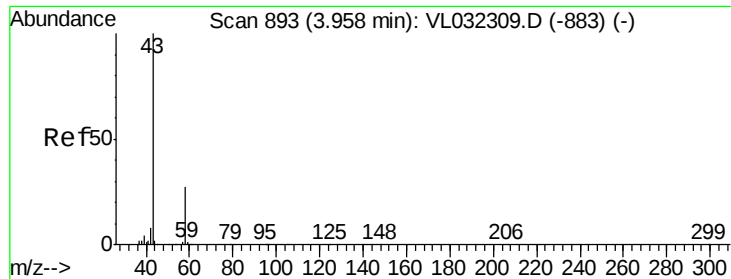
46 36.4 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

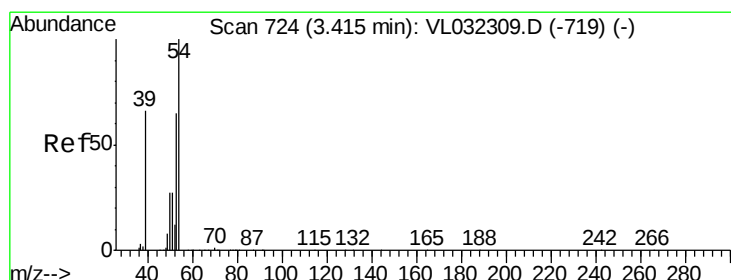
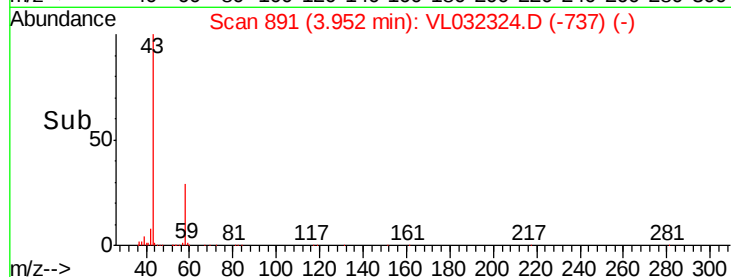
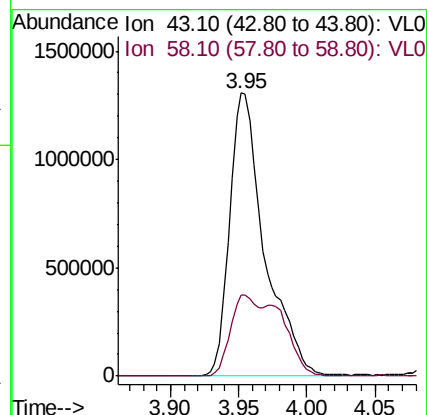
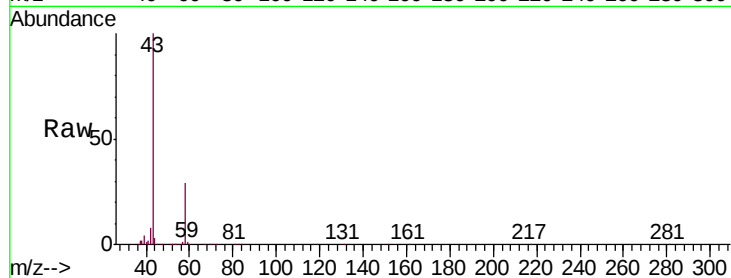




#15
Acetone
Concen: 14.600 ppbv
RT: 3.95 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

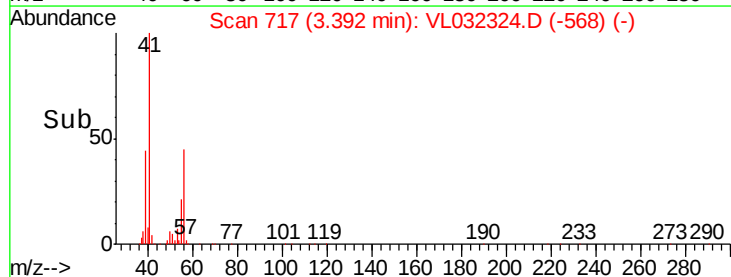
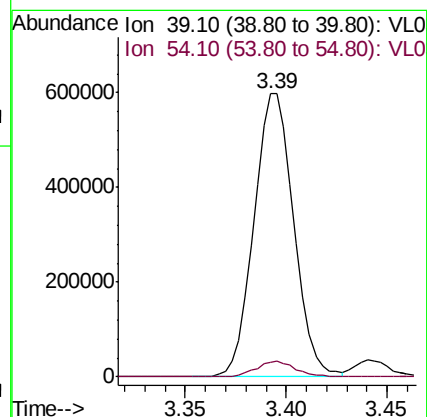
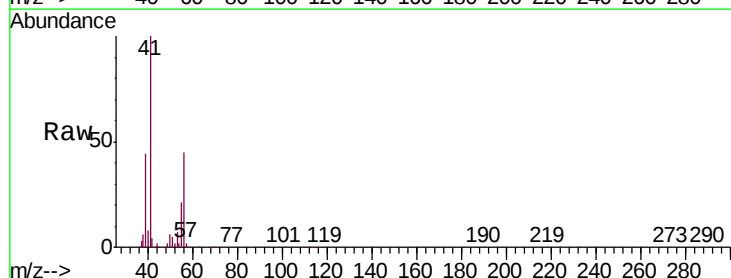
Instrument :
MSVOA_L
ClientSampled :

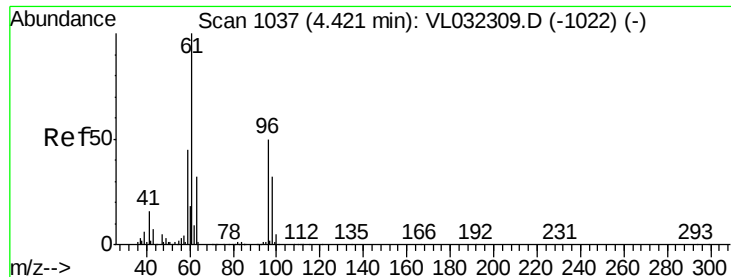
Tot Ion: 43 Resp: 2326190
Ion Ratio Lower Upper
43 100
58 42.0 22.5 33.7#



#16
1,3-Butadiene
Concen: 9.967 ppbv
RT: 3.39 min Scan# 717
Delta R.T. -0.02 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 39 Resp: 823330
Ion Ratio Lower Upper
39 100
54 5.7 74.3 111.5#





#17

tert-Butyl alcohol

Concen: 0.663 ppbv

RT: 4.43 min Scan# 1039

Delta R.T. 0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

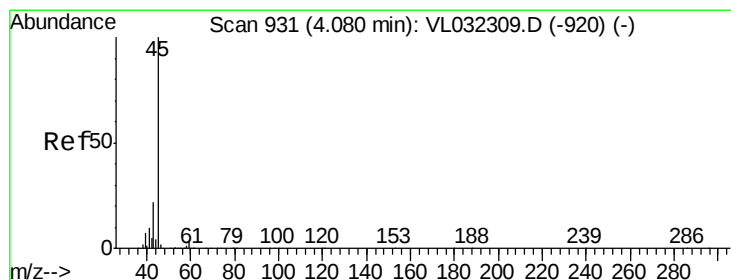
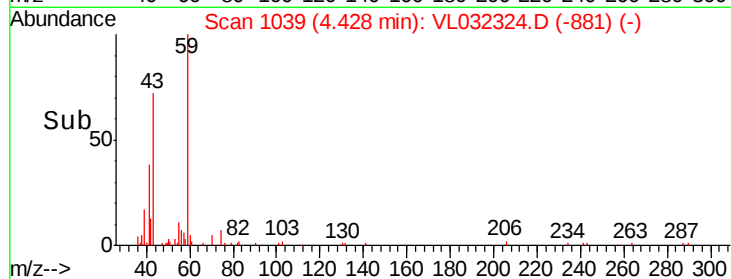
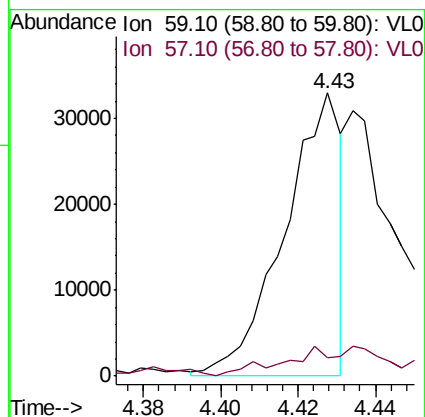
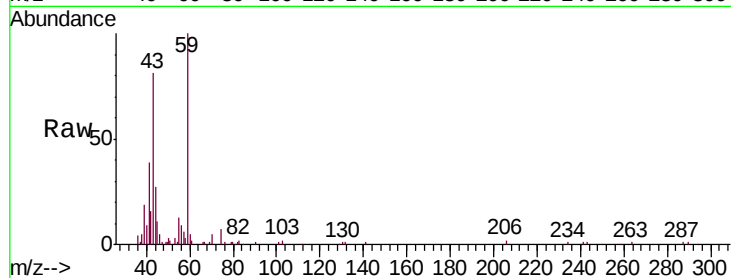
ClientSampleId :

Tot Ion: 59 Resp: 33573

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



#19

Isopropyl Alcohol

Concen: 6.906 ppbv

RT: 4.12 min Scan# 943

Delta R.T. 0.04 min

Lab File: VL032324.D

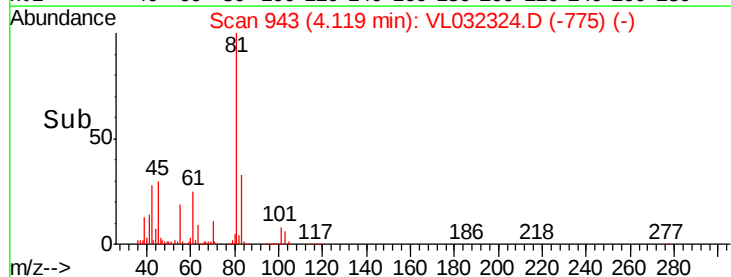
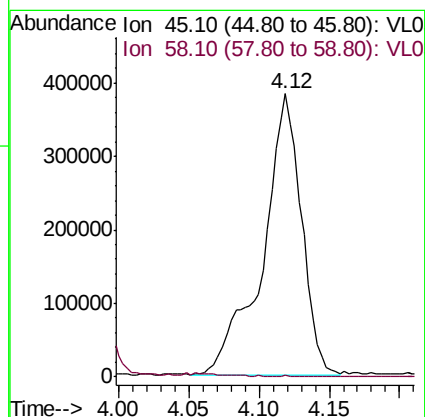
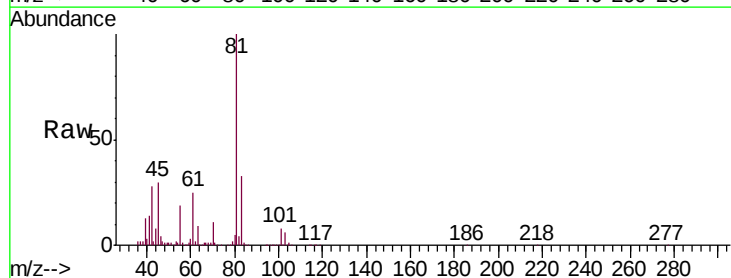
Acq: 27 Jul 2018 18:28

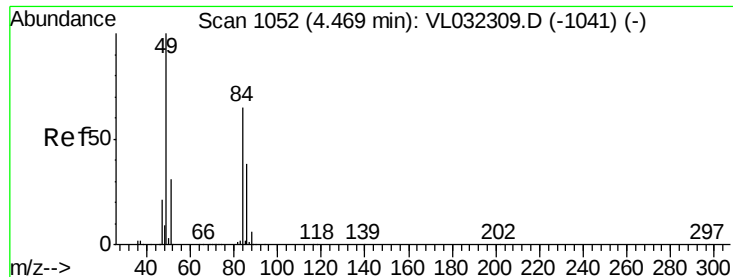
Tgt Ion: 45 Resp: 734150

Ion Ratio Lower Upper

45 100

58 133.3 1.5 2.3#

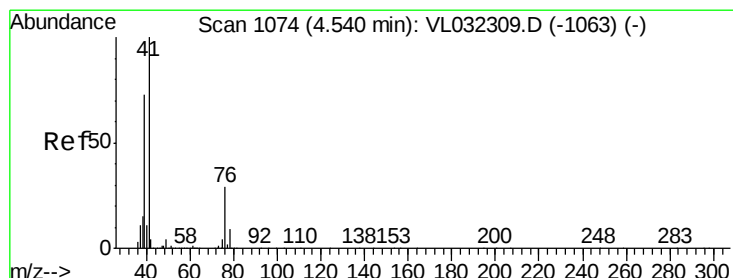
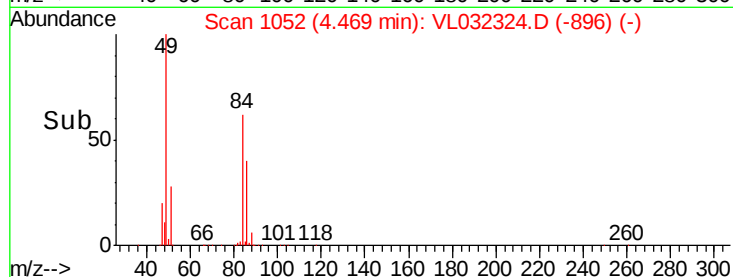
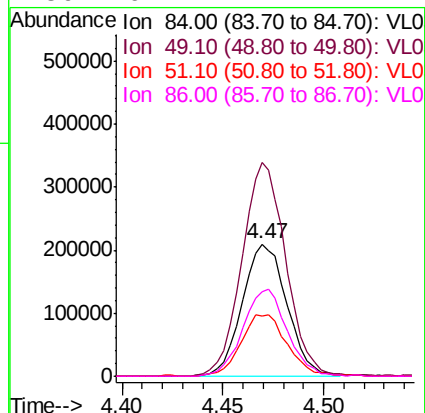
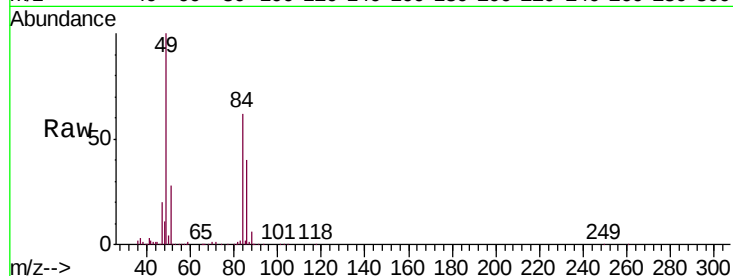




#20
Methvlene Chloride
Concen: 5.067 ppbv
RT: 4.47 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

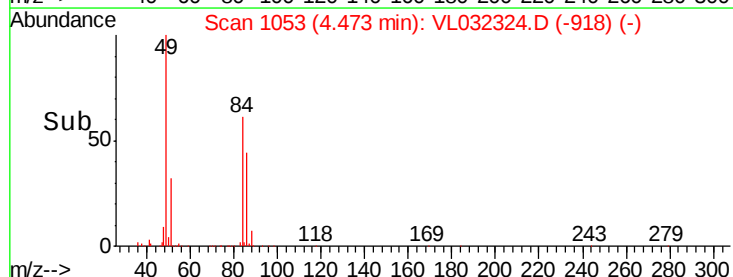
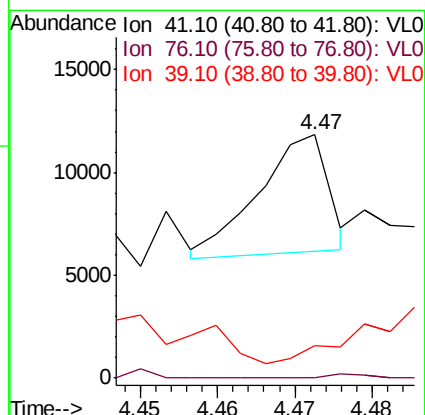
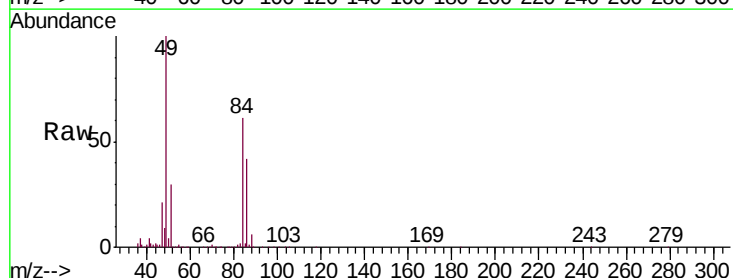
Instrument :
MSVOA_L
ClientSampled :

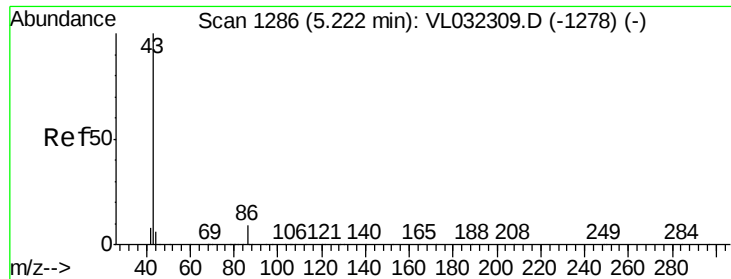
Tot Ion: 84 Resp: 324457
Ion Ratio Lower Upper
84 100
49 161.5 123.4 185.0
51 45.7 38.2 57.2
86 64.4 47.4 71.2



#21
Allyl Chloride
Concen: 0.033 ppbv
RT: 4.47 min Scan# 1053
Delta R.T. -0.07 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 41 Resp: 3621
Ion Ratio Lower Upper
41 100
76 0.0 23.1 34.7#
39 256.0 58.2 87.2#





#23

Vinyl Acetate

Concen: 0.323 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. -0.01 min

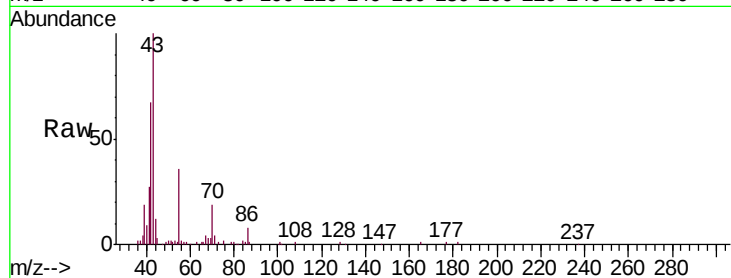
Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

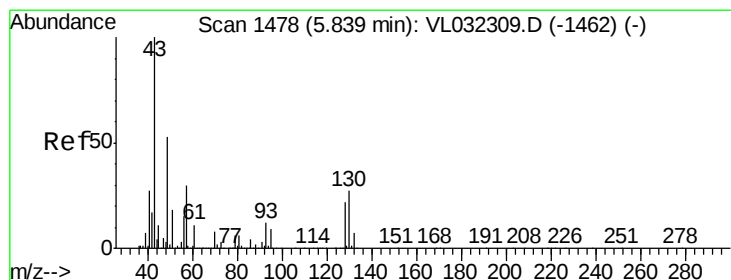
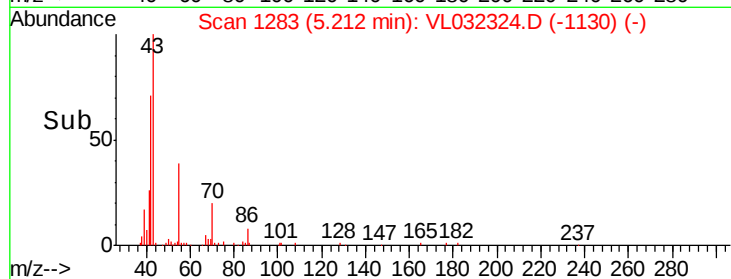
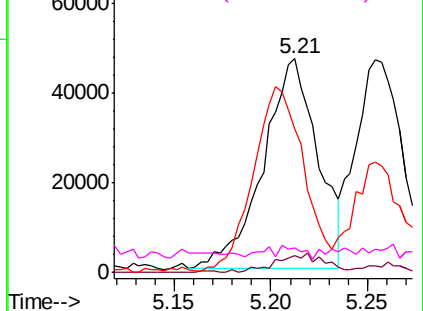
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 92349

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.3	9.5
42	67.1	7.0	10.4#
44	2.7	4.6	7.0#



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



#25

Ethyl Acetate

Concen: 1.614 ppbv

RT: 5.84 min Scan# 1478

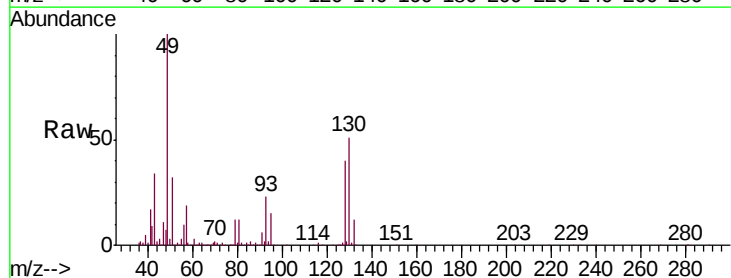
Delta R.T. 0.00 min

Lab File: VL032324.D

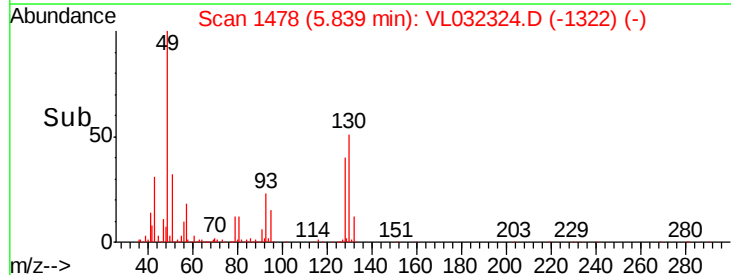
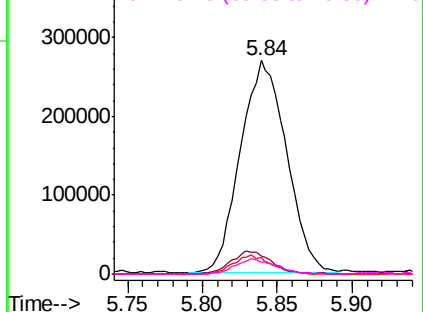
Acq: 27 Jul 2018 18:28

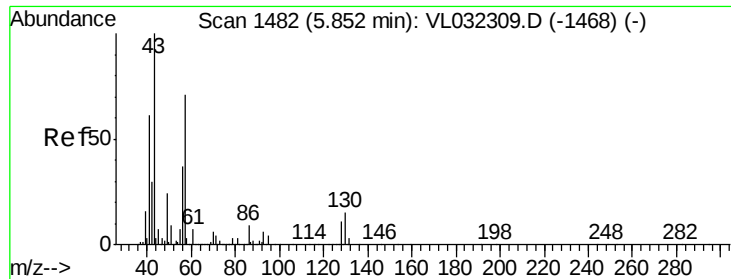
Tgt Ion: 43 Resp: 577219

Ion	Ratio	Lower	Upper
43	100		
45	9.4	8.1	12.1
61	7.3	7.4	11.0#
70	6.2	5.6	8.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

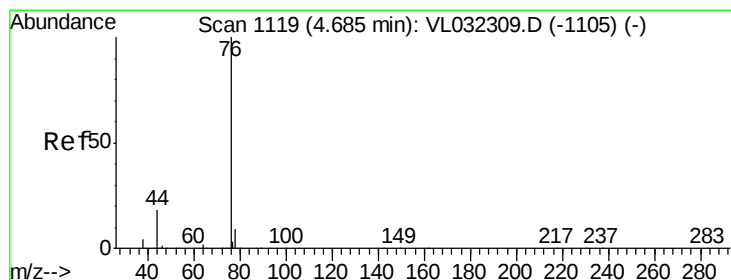
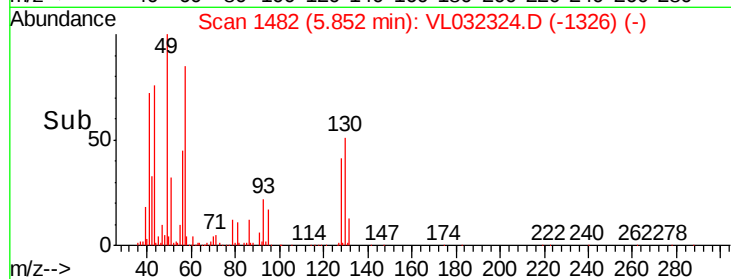
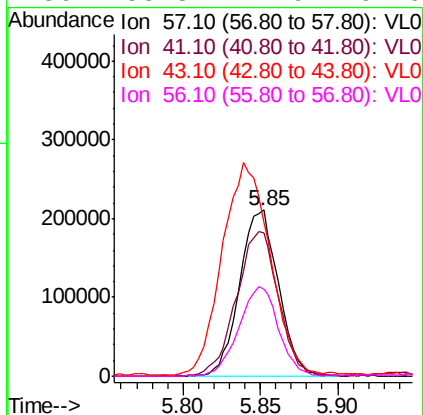
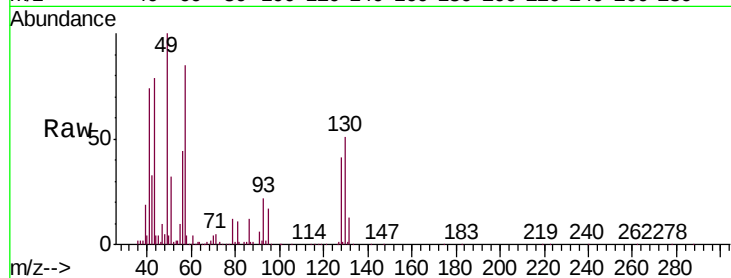




#26
Hexane
Concen: 2.271 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

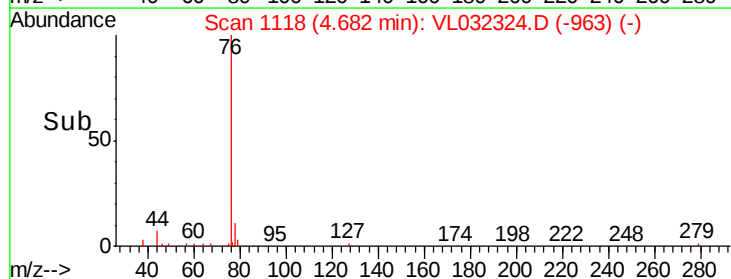
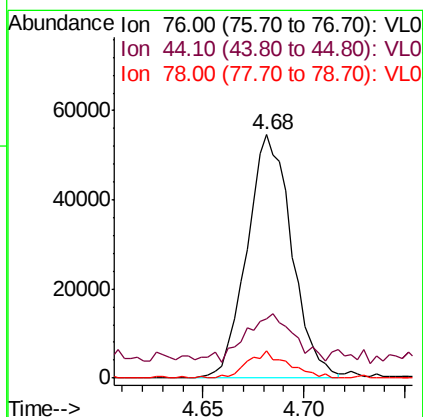
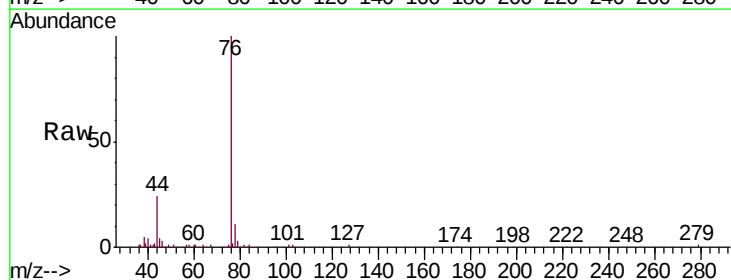
Instrument :
MSVOA_L
ClientSampleId :

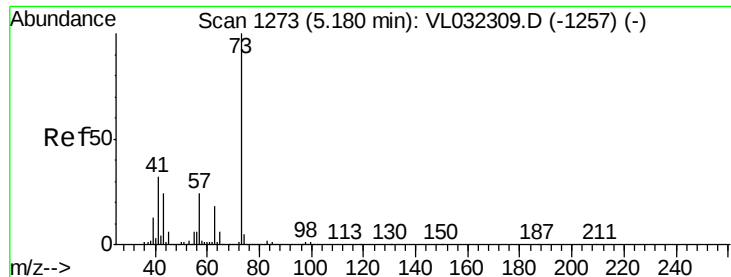
Tot Ion: 57 Resp: 367476
Ion Ratio Lower Upper
57 100
41 94.3 68.1 102.1
43 157.6 177.4 266.2#
56 55.8 41.9 62.9



#27
Carbon Disulfide
Concen: 0.578 ppbv
RT: 4.68 min Scan# 1118
Delta R.T. -0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 76 Resp: 84949
Ion Ratio Lower Upper
76 100
44 26.3 14.0 21.0#
78 10.6 7.5 11.3



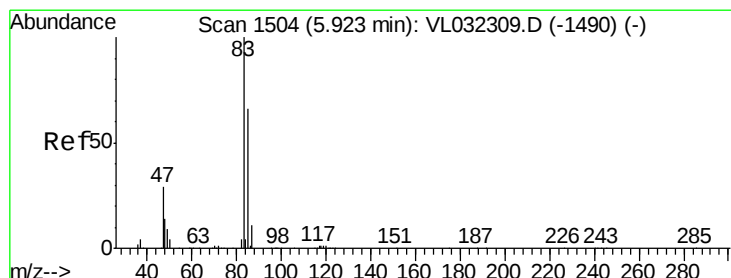
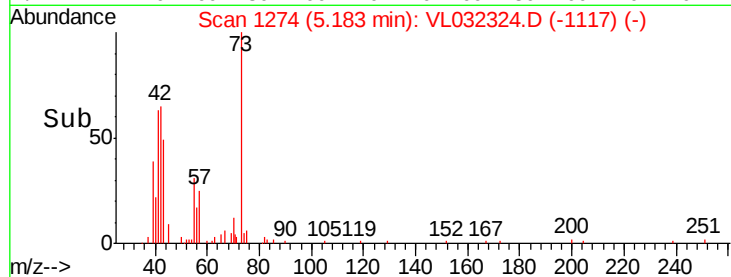
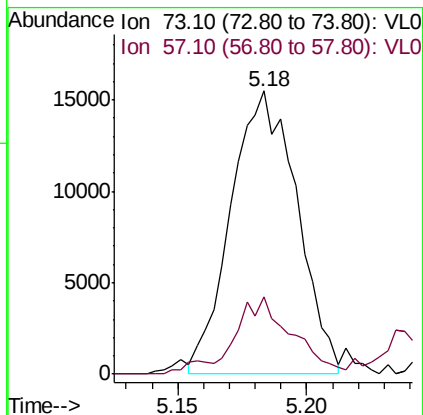
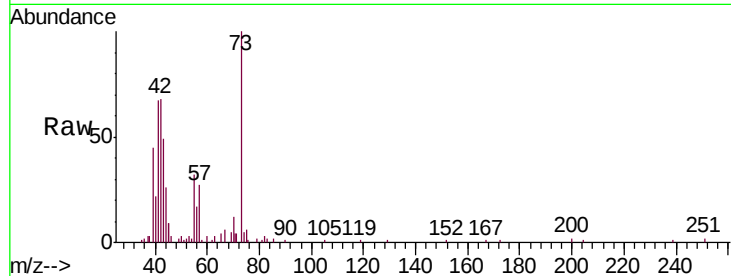


#28

Methvl tert-Butvl Ether
 Concen: 0.126 ppbv
 RT: 5.18 min Scan# 1274
 Delta R.T. 0.00 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Instrument :
 MSVOA_L
 ClientSampleId :

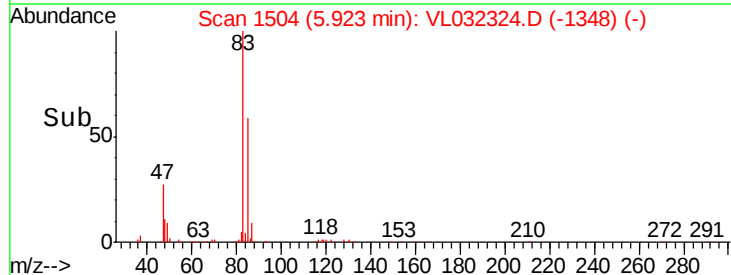
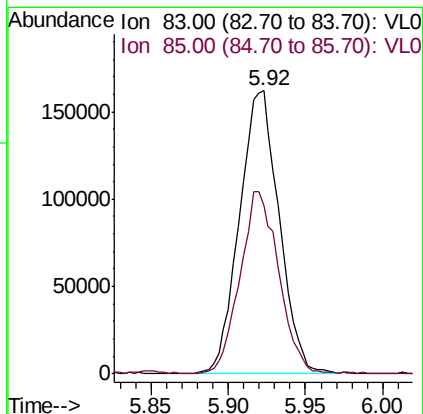
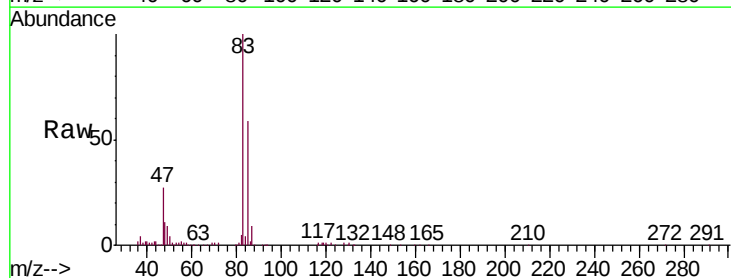
Tot Ion: 73 Resp: 27652
 Ion Ratio Lower Upper
 73 100
 57 0.0 19.4 29.0#

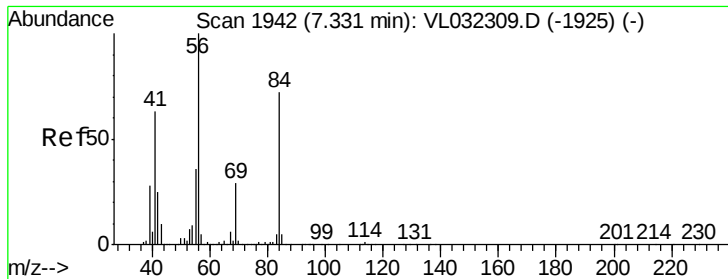


#29

Chloroform
 Concen: 1.231 ppbv
 RT: 5.92 min Scan# 1504
 Delta R.T. 0.00 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Tgt Ion: 83 Resp: 289603
 Ion Ratio Lower Upper
 83 100
 85 58.9 52.9 79.3

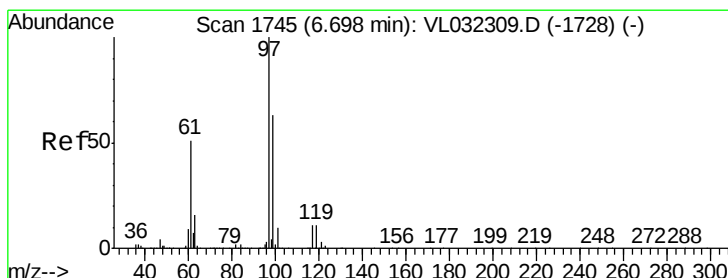
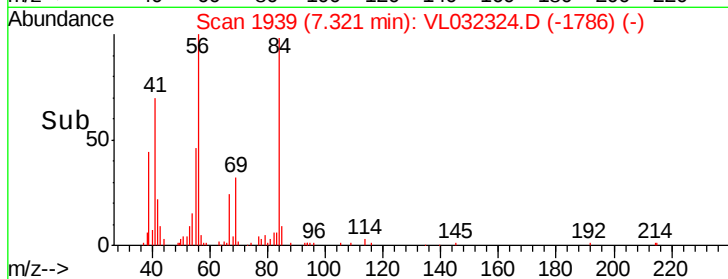
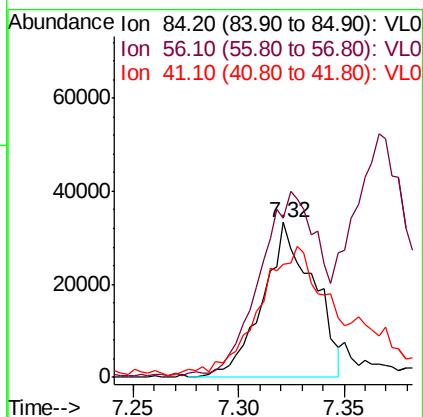
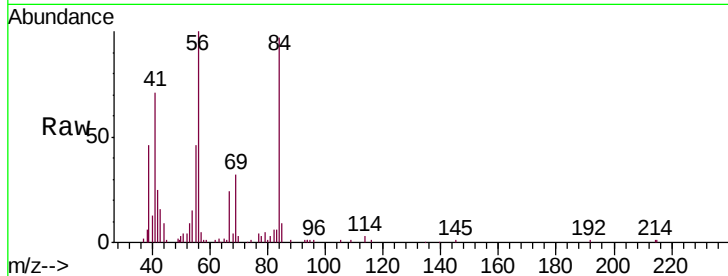




#30
Cvclohexane
Concen: 0.435 ppbv
RT: 7.32 min Scan# 1939
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

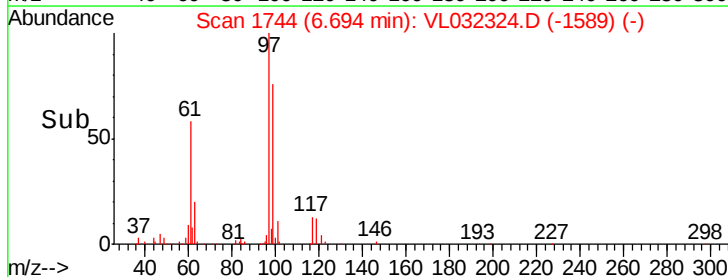
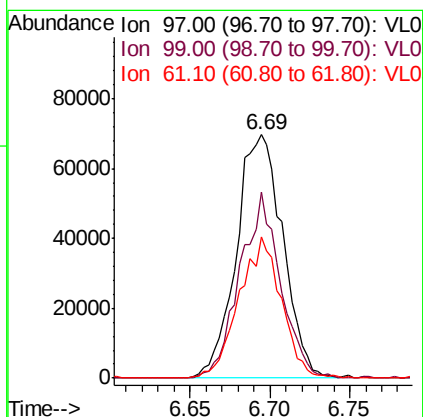
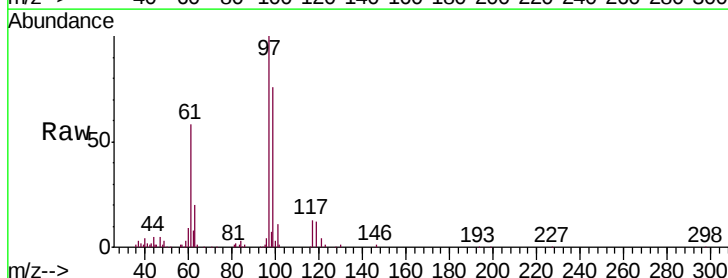
Instrument :
MSVOA_L
ClientSampleId :

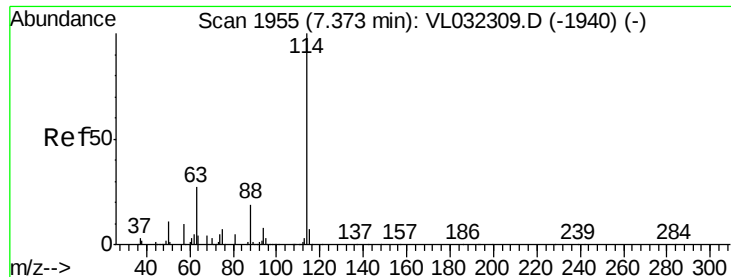
Tot Ion: 84 Resp: 54865
Ion Ratio Lower Upper
84 100
56 154.9 116.8 175.2
41 136.3 70.0 105.0#



#32
1,1,1-Trichloroethane
Concen: 0.663 ppbv
RT: 6.69 min Scan# 1744
Delta R.T. -0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 97 Resp: 138027
Ion Ratio Lower Upper
97 100
99 66.7 50.9 76.3
61 53.1 41.8 62.6

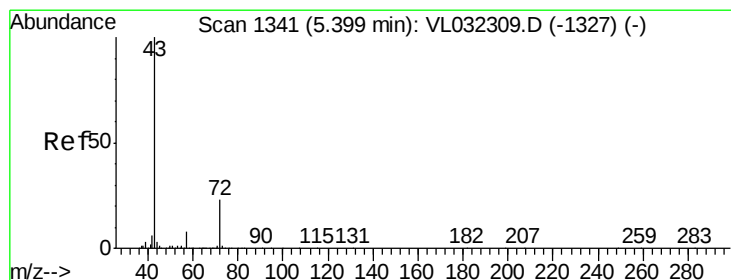
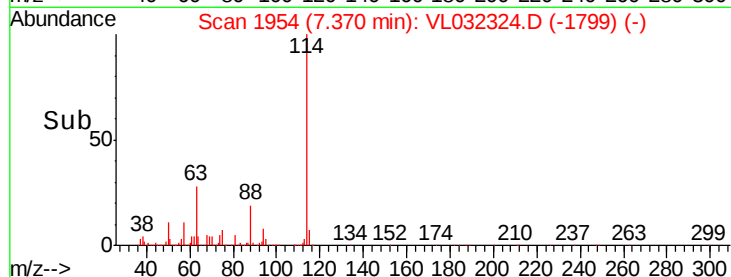
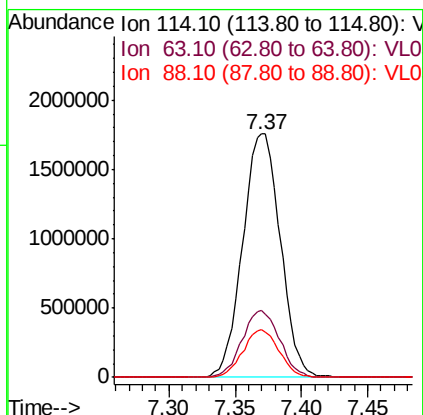
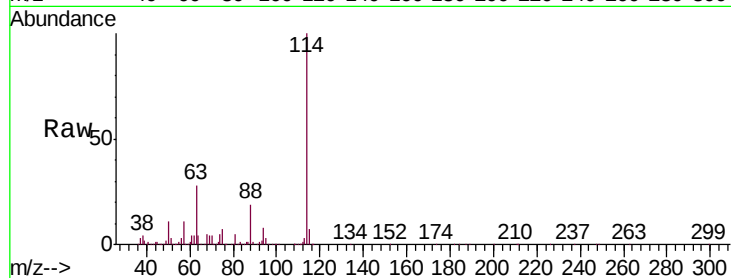




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.00 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

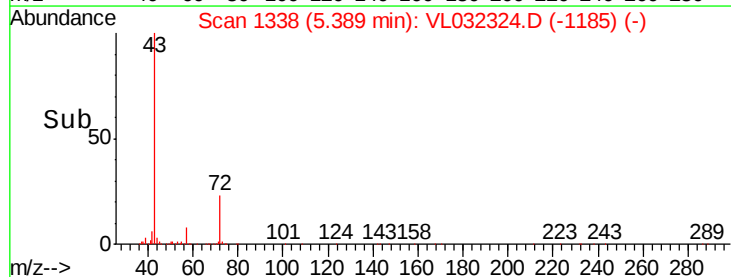
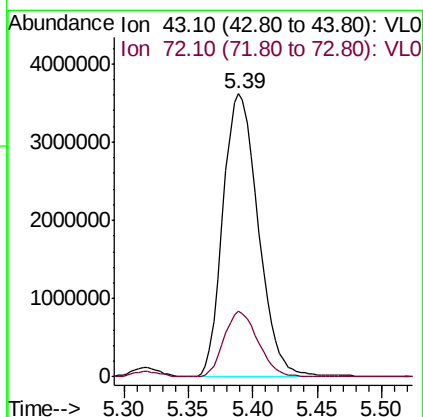
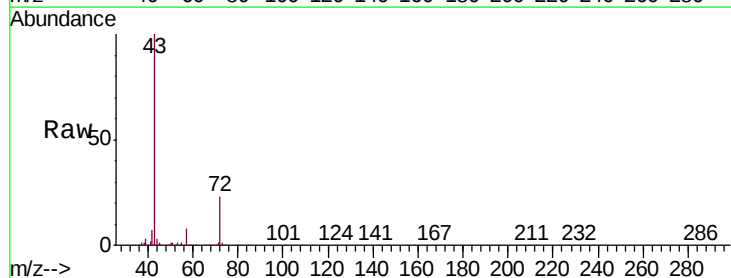
Instrument :
 MSVOA_L
 ClientSampleId :

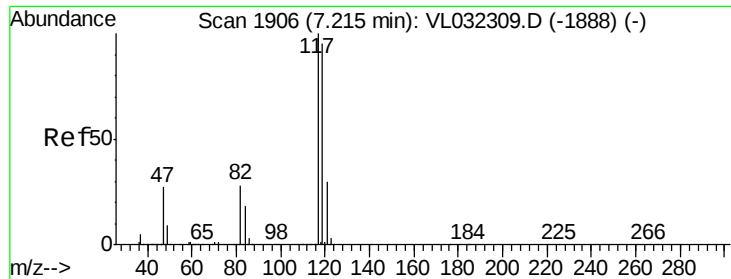
Tot Ion:114 Resp: 3469562
 Ion Ratio Lower Upper
 114 100
 63 27.4 22.4 33.6
 88 19.0 15.3 22.9



#34
 2-Butanone
 Concen: 30.473 ppbv
 RT: 5.39 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Tgt Ion: 43 Resp: 6843367
 Ion Ratio Lower Upper
 43 100
 72 22.5 17.4 26.2





#35

Carbon Tetrachloride

Concen: 0.043 ppbv

RT: 7.21 min Scan# 1904

Delta R.T. -0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

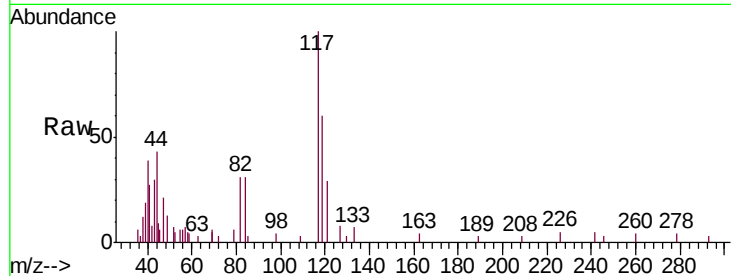
Tot Ion:117 Resp: 8471

Ion Ratio Lower Upper

117 100

119 60.2 76.1 114.1#

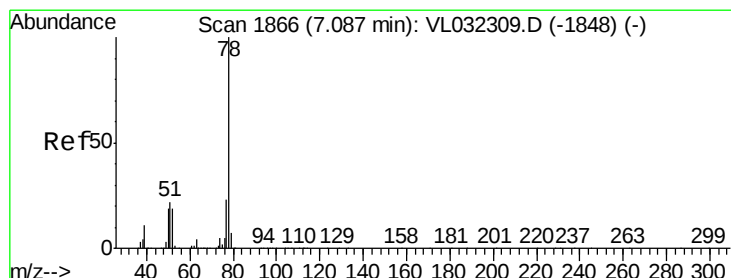
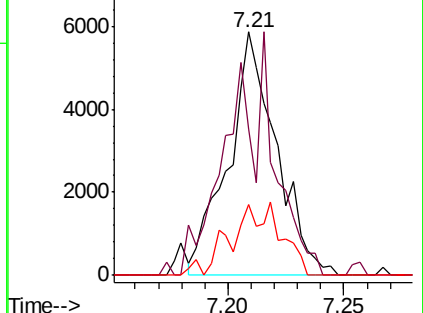
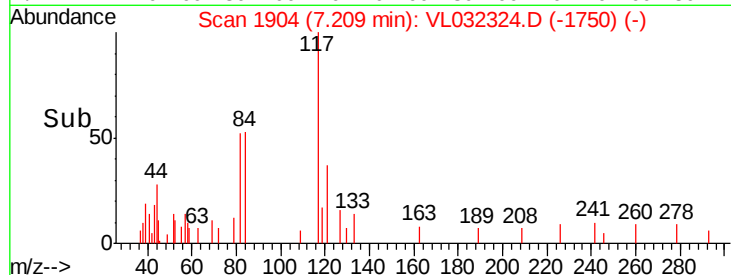
121 28.9 24.4 36.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.118 ppbv

RT: 7.08 min Scan# 1863

Delta R.T. -0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

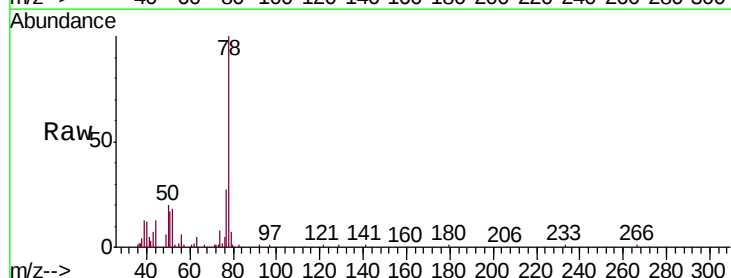
Tgt Ion: 78 Resp: 36173

Ion Ratio Lower Upper

78 100

77 26.6 18.4 27.6

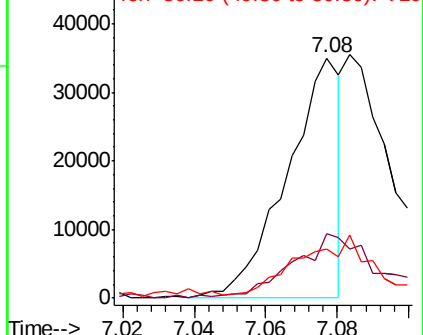
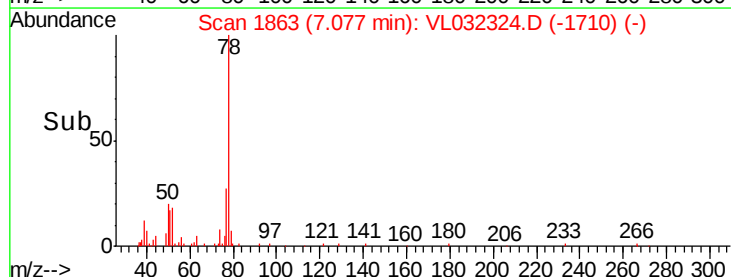
50 16.6 15.3 22.9

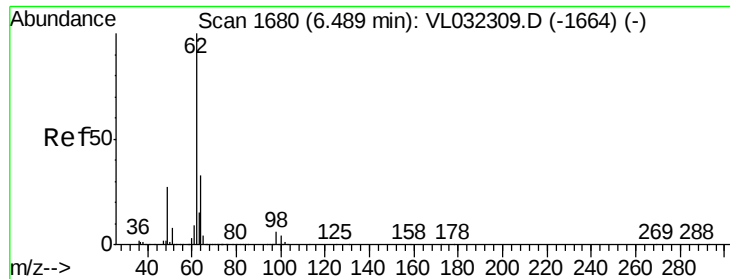


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.116 ppbv

RT: 6.49 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

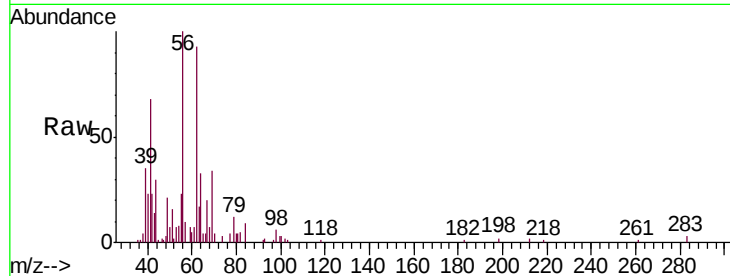
ClientSampled :

Tot Ion: 62 Resp: 20551

Ion Ratio Lower Upper

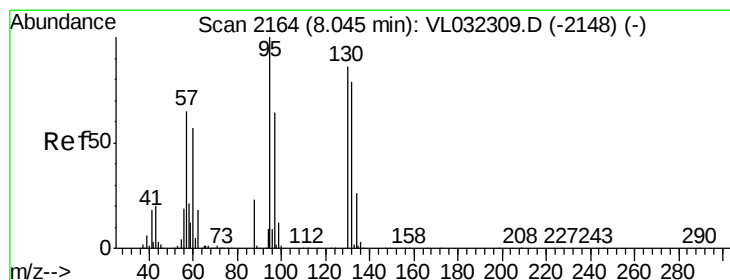
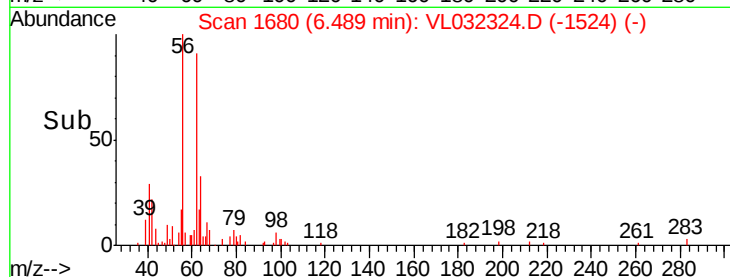
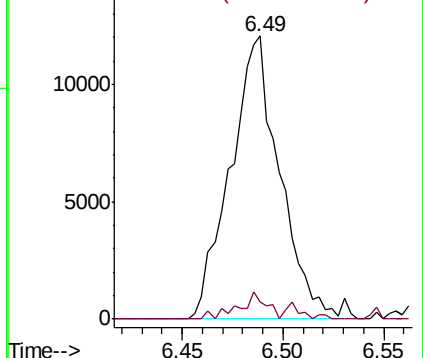
62 100

98 7.1 5.1 7.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.127 ppbv

RT: 8.04 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Tgt Ion: 130 Resp: 15022

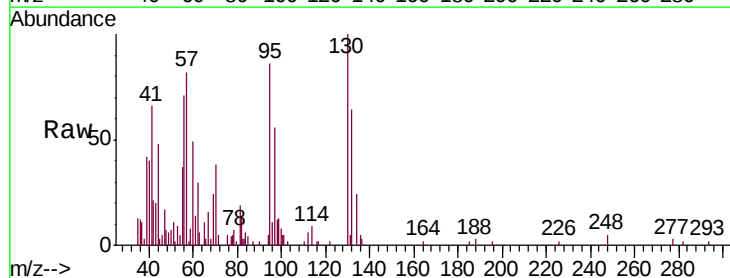
Ion Ratio Lower Upper

130 100

95 77.5 92.9 139.3#

132 61.1 73.0 109.4#

97 45.6 59.6 89.4#

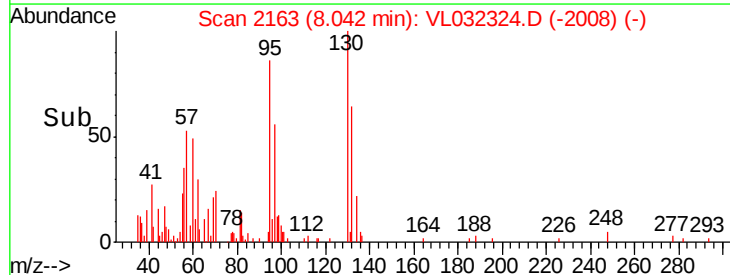
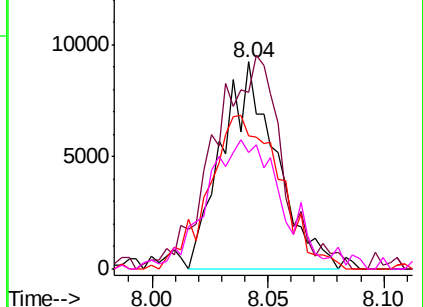


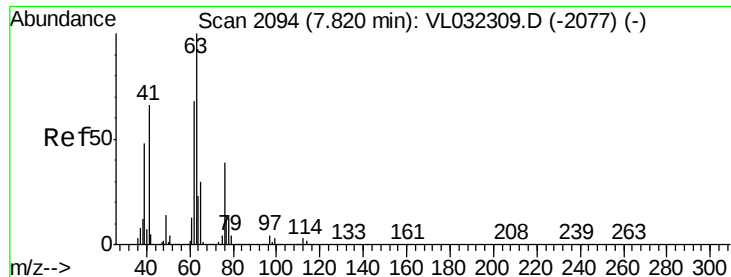
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

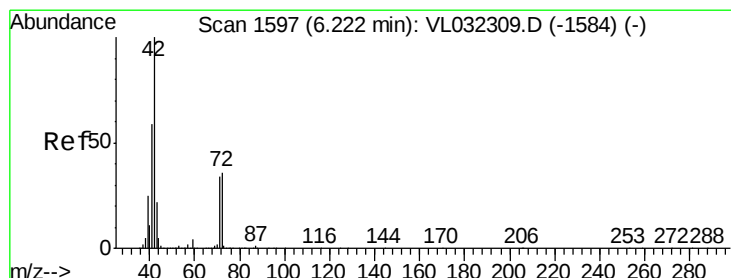
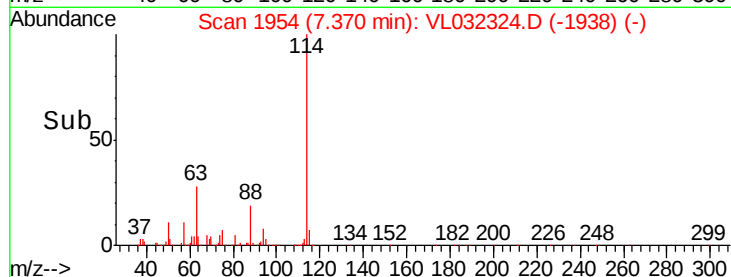
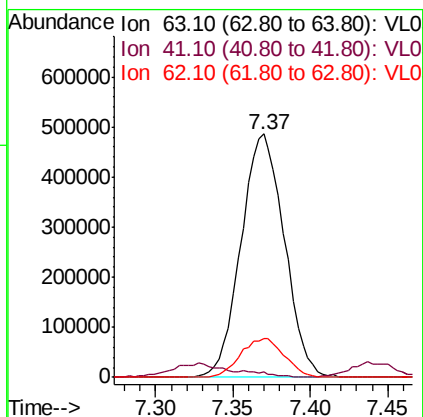
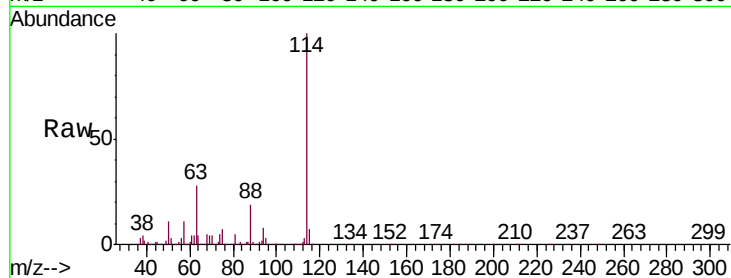




#39
 1,2-Dichloropropane
 Concen: 6.121 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.45 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

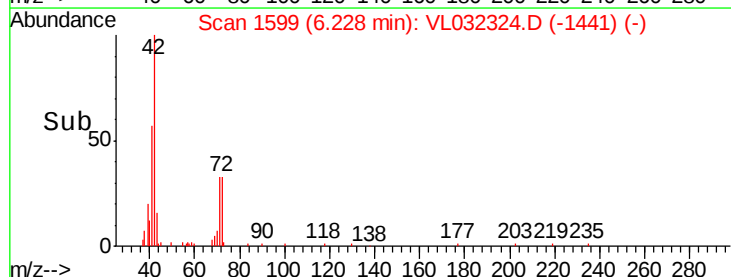
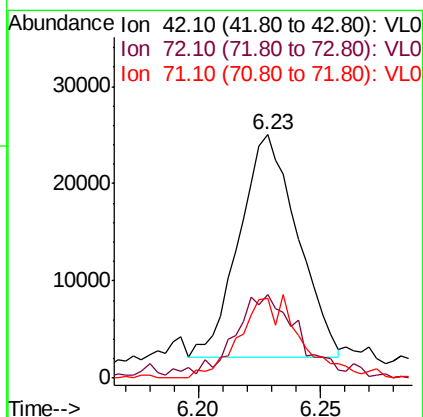
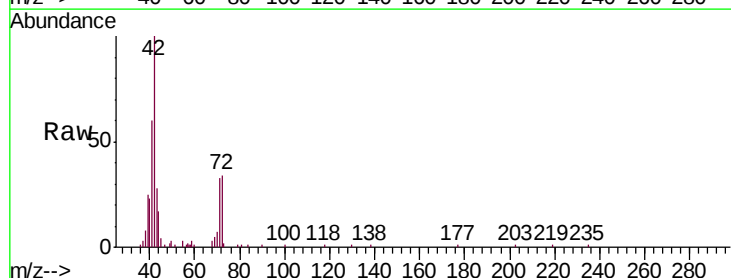
Instrument :
 MSVOA_L
 ClientSampleId :

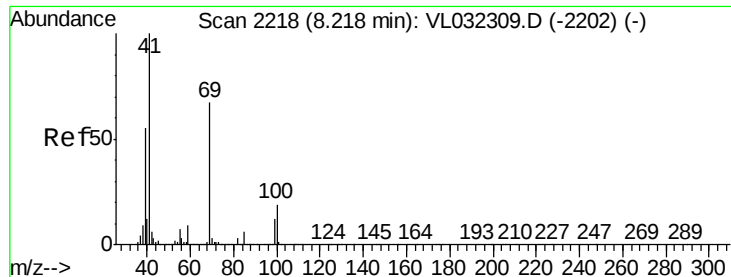
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.6	52.5	78.7#
62	16.1	54.6	81.8#



#41
 Tetrahydrofuran
 Concen: 0.298 ppbv
 RT: 6.23 min Scan# 1599
 Delta R.T. 0.01 min
 Lab File: VL032324.D
 Acq: 27 Jul 2018 18:28

Tgt Ion	Ratio	Lower	Upper
42	100		
72	46.0	28.6	42.8#
71	39.4	27.8	41.6





#43

Methvl Methacrilate

Concen: 0.060 ppbv

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

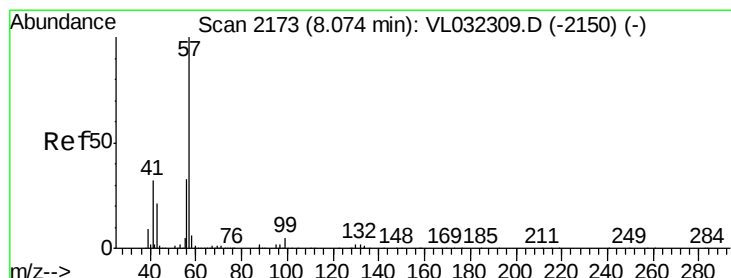
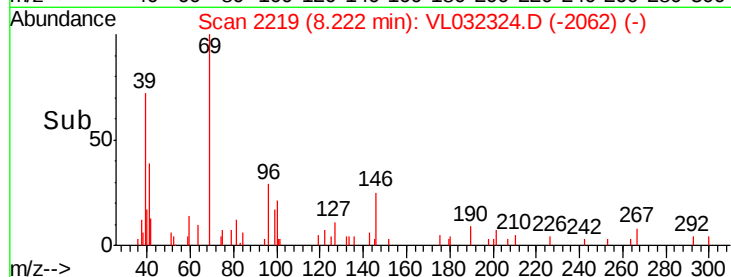
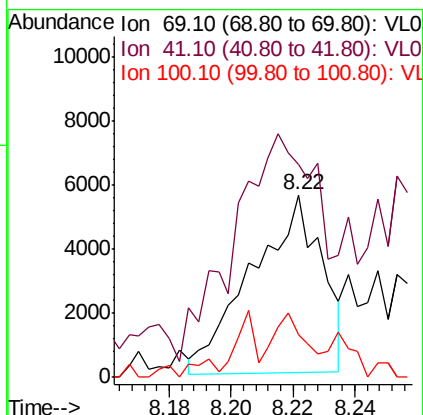
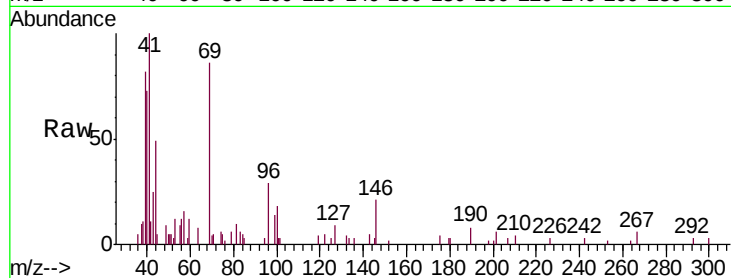
Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 69 Resp: 8765

Ion	Ratio	Lower	Upper
69	100		
41	167.7	120.6	180.8
100	41.3	23.2	34.8#



#44

2,2,4-Trimethylpentane

Concen: 0.057 ppbv

RT: 8.07 min Scan# 2173

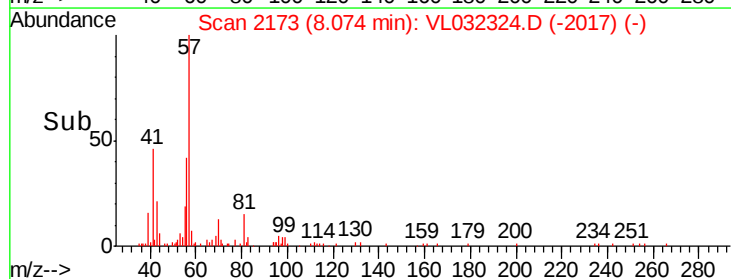
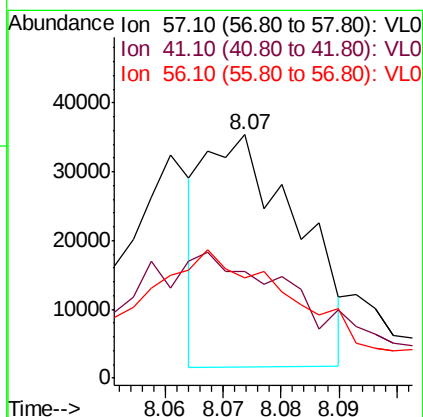
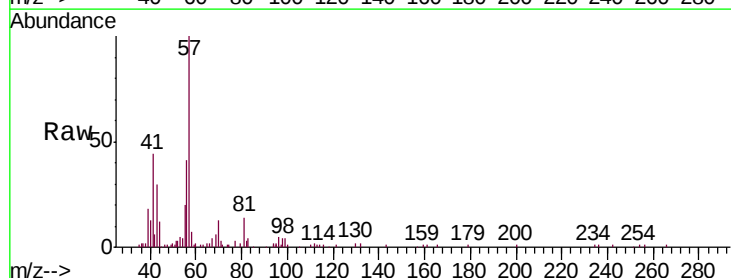
Delta R.T. 0.00 min

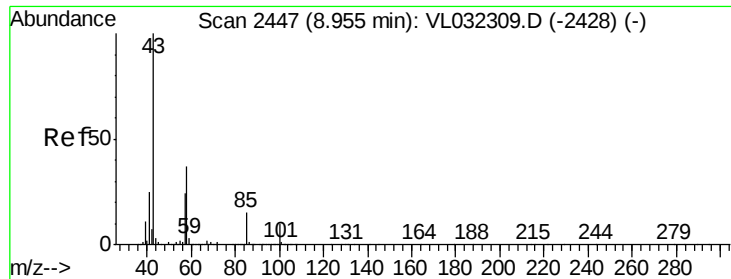
Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Tgt Ion: 57 Resp: 37667

Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.3	36.5#
56	0.0	25.4	38.2#

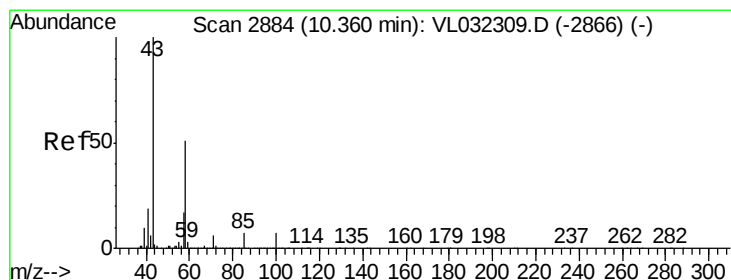
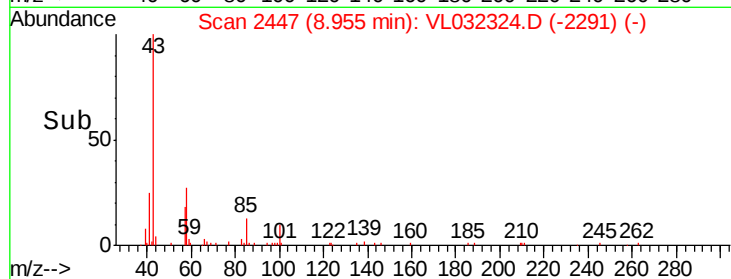
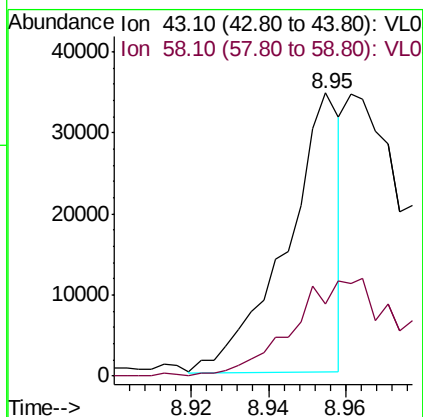
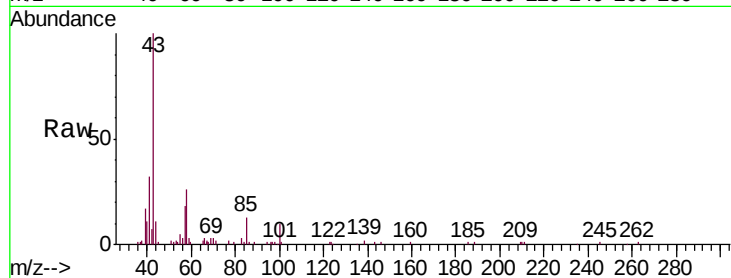




#50
4-Methyl-2-Pentanone
Concen: 0.084 ppbv
RT: 8.95 min Scan# 2447
Delta R.T. 0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

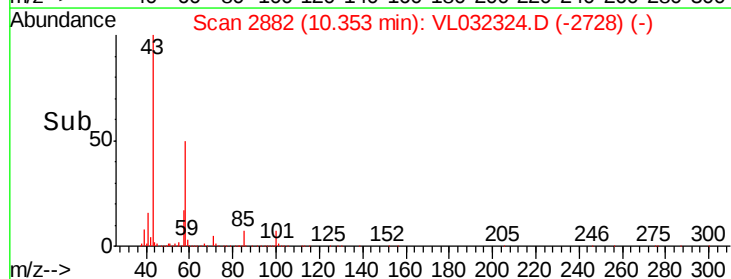
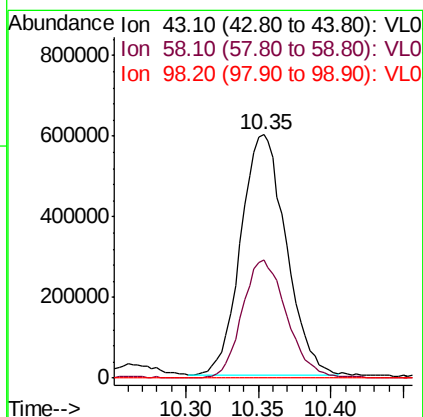
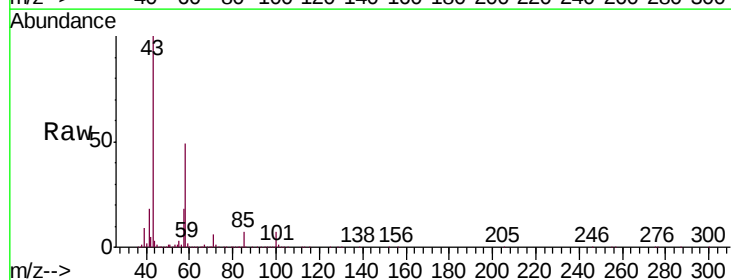
Instrument :
MSVOA_L
ClientSampleId :

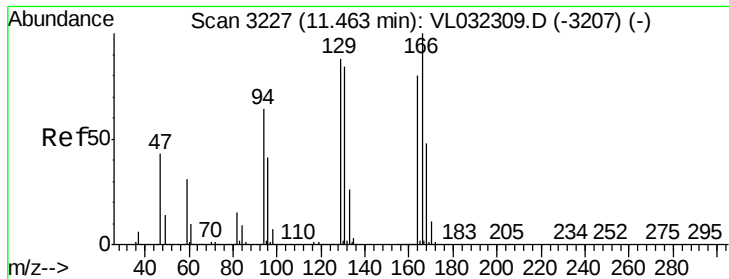
Tot Ion: 43 Resp: 33432
Ion Ratio Lower Upper
43 100
58 0.0 28.9 43.3#



#51
2-Hexanone
Concen: 4.295 ppbv
RT: 10.35 min Scan# 2882
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 43 Resp: 1296902
Ion Ratio Lower Upper
43 100
58 48.1 39.1 58.7
98 0.2 0.3 0.5#





#52

Tetrachloroethene

Concen: 0.672 ppbv

RT: 11.46 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 69274

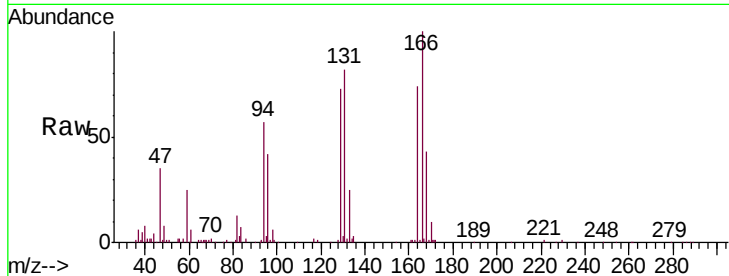
Ion Ratio Lower Upper

164 100

166 135.1 100.0 150.0

129 98.3 87.9 131.9

131 111.2 83.8 125.8

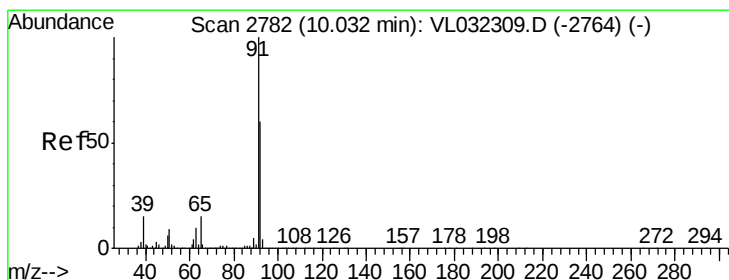
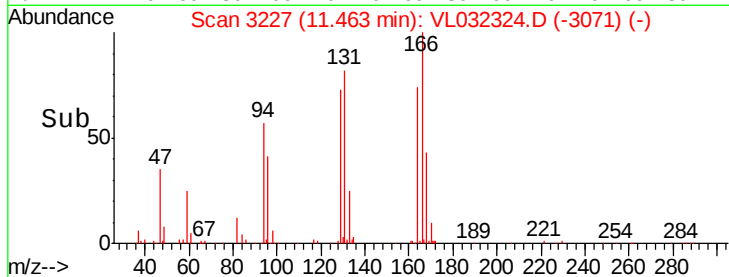
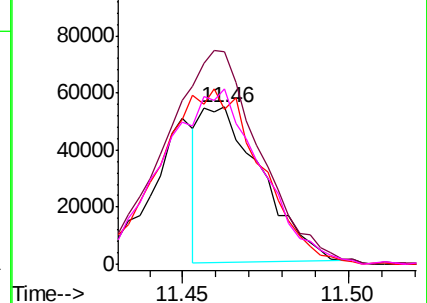


Abundance Ion 163.90 (163.60 to 164.60): V

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: 5.677 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. 0.00 min

Lab File: VL032324.D

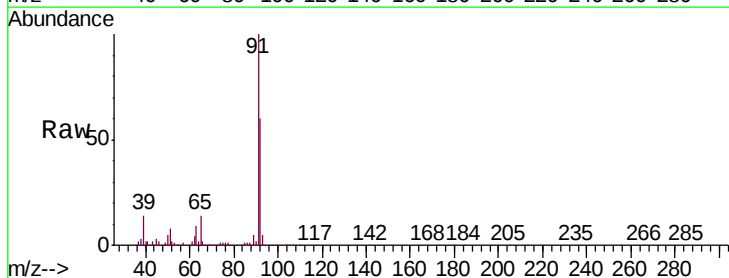
Acq: 27 Jul 2018 18:28

Tgt Ion: 91 Resp: 2075464

Ion Ratio Lower Upper

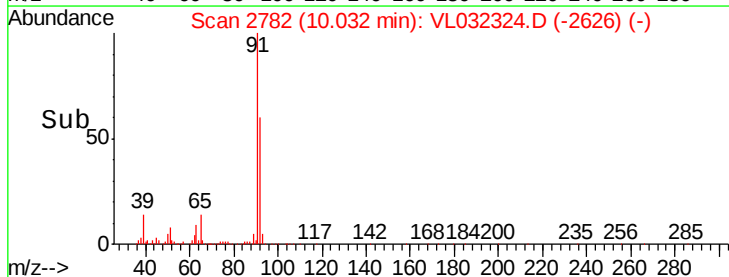
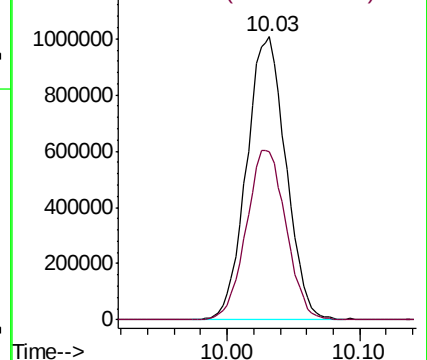
91 100

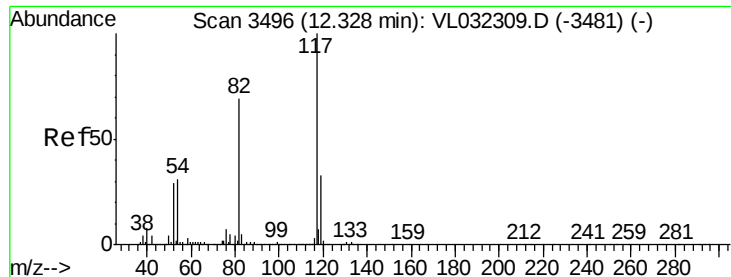
92 60.5 48.6 72.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

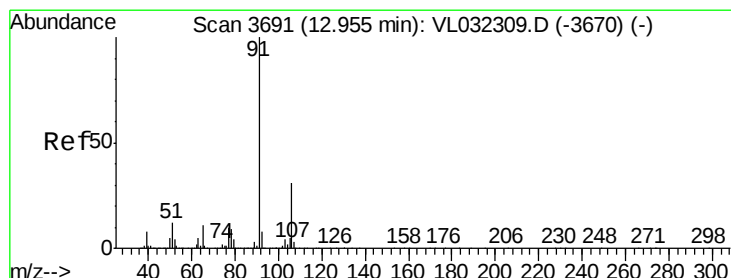
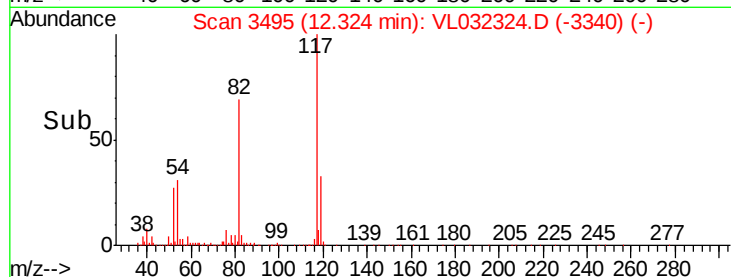
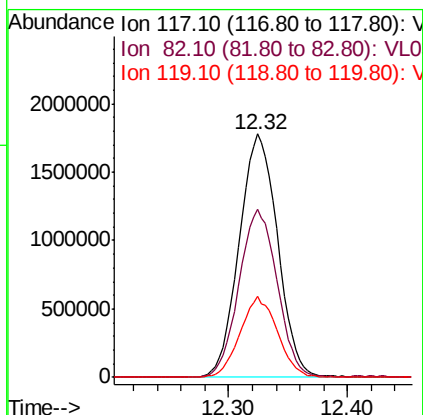
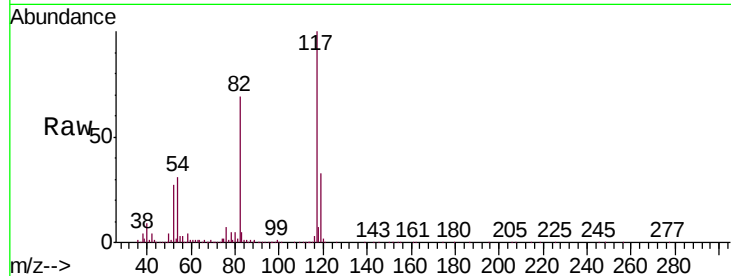




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.32 min Scan# 3495
Delta R.T. -0.00 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

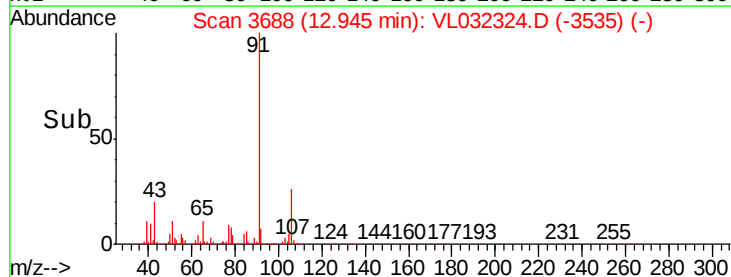
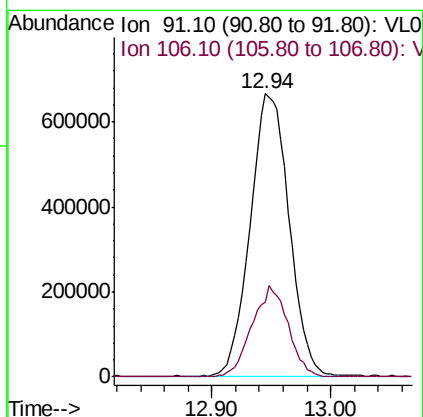
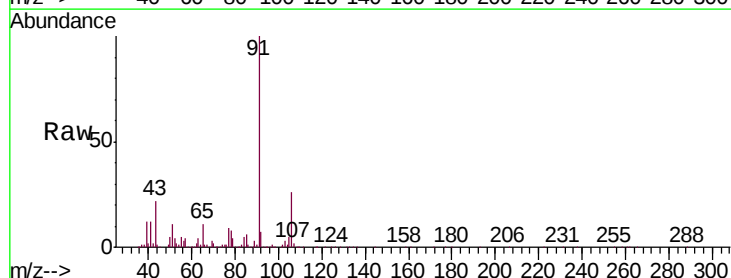
Instrument :
MSVOA_L
ClientSampleId :

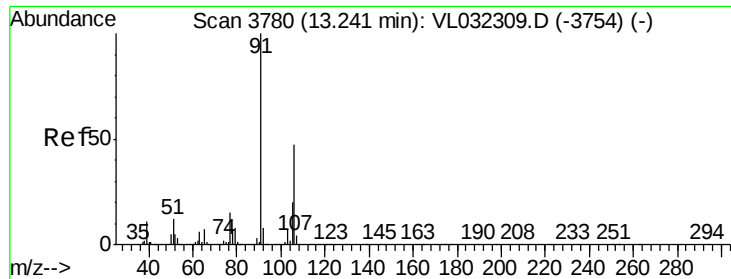
Tot Ion:117 Resp: 3979032
Ion Ratio Lower Upper
117 100
82 68.8 52.6 78.8
119 32.4 25.7 38.5



#58
Ethyl Benzene
Concen: 3.020 ppbv
RT: 12.94 min Scan# 3688
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 91 Resp: 1506436
Ion Ratio Lower Upper
91 100
106 26.4 25.0 37.4

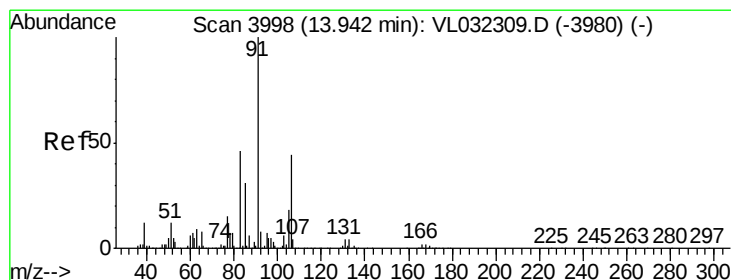
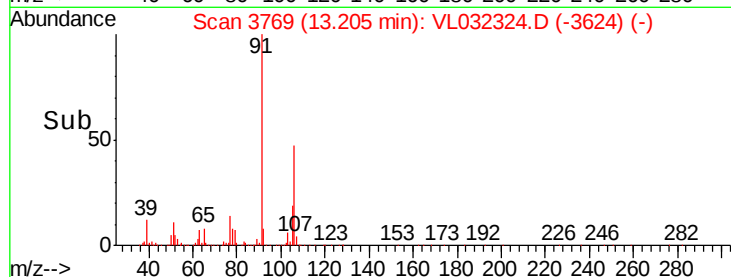
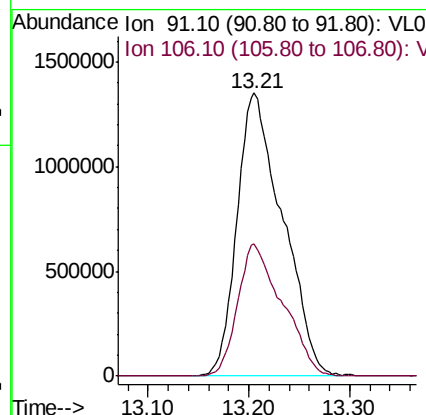
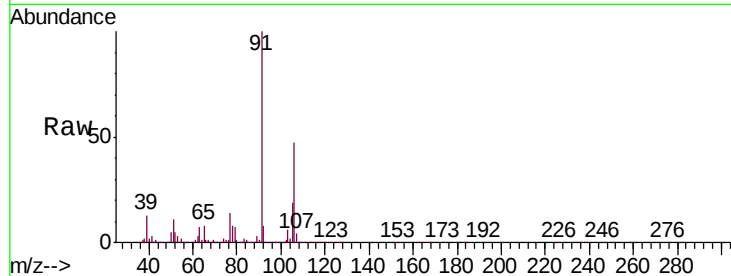




#59
m/p-Xylene
Concen: 9.947 ppbv
RT: 13.21 min Scan# 3769
Delta R.T. -0.04 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

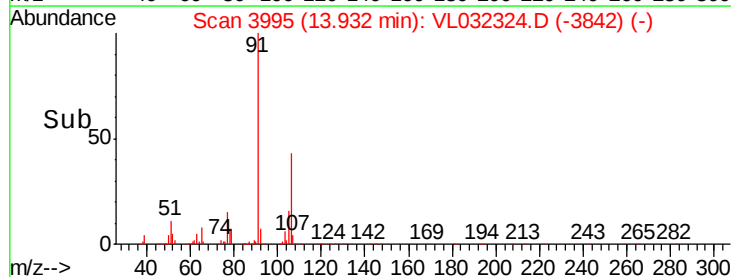
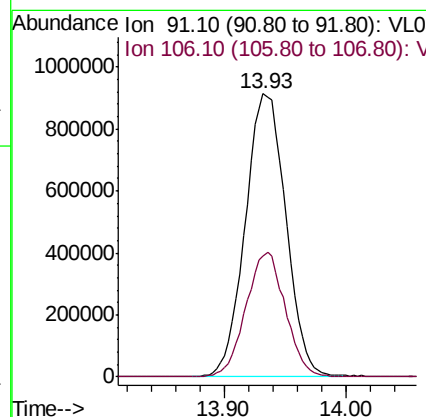
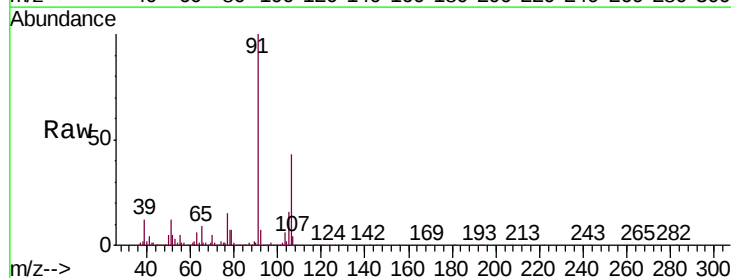
Instrument :
MSVOA_L
ClientSampleId :

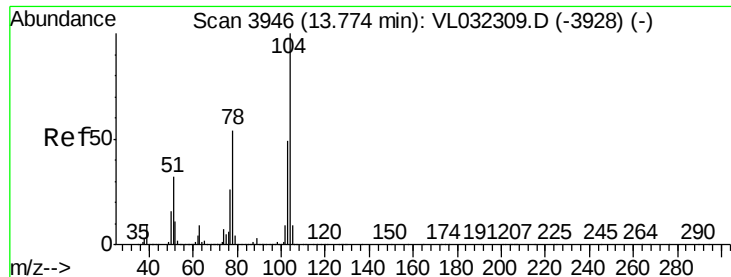
Tot Ion: 91 Resp: 4224552
Ion Ratio Lower Upper
91 100
106 46.1 36.4 54.6



#60
o-Xylene
Concen: 5.039 ppbv
RT: 13.93 min Scan# 3995
Delta R.T. -0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 91 Resp: 2098131
Ion Ratio Lower Upper
91 100
106 42.7 22.4 67.0





#61

Stvrene

Concen: 7.873 ppbv

RT: 13.77 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

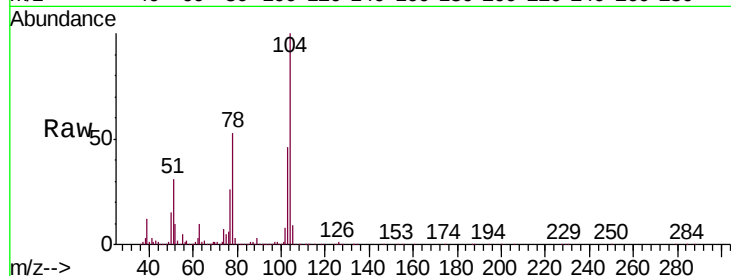
Tot Ion:104 Resp: 2412951

Ion Ratio Lower Upper

104 100

78 52.4 42.6 63.8

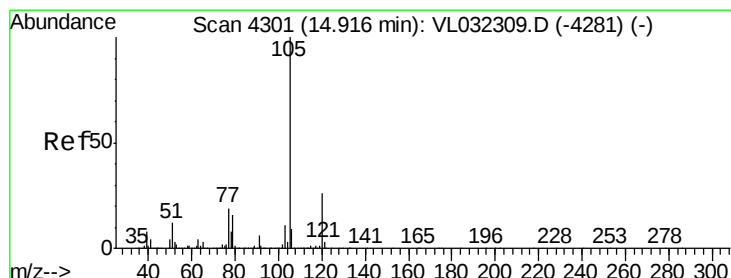
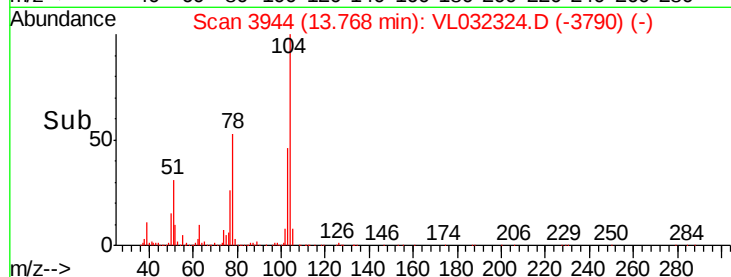
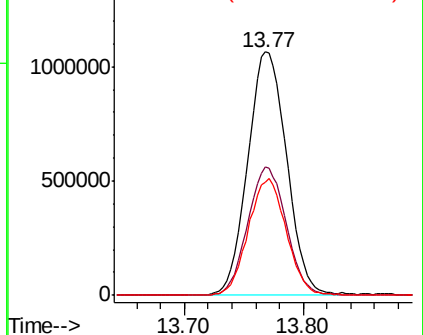
103 47.1 38.0 57.0



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: 2.344 ppbv

RT: 14.91 min Scan# 4300

Delta R.T. -0.00 min

Lab File: VL032324.D

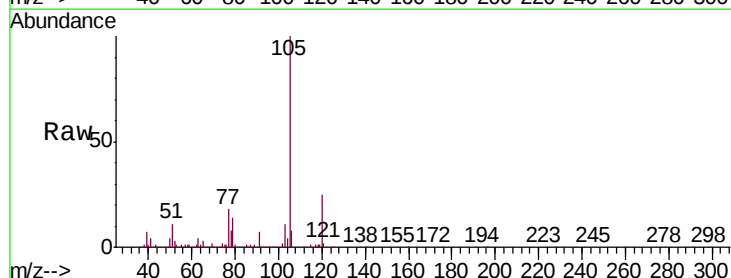
Acq: 27 Jul 2018 18:28

Tgt Ion:105 Resp: 1386413

Ion Ratio Lower Upper

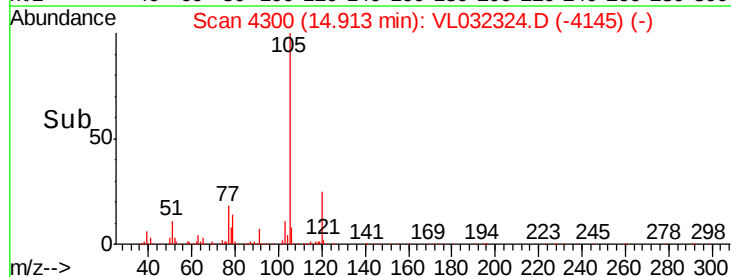
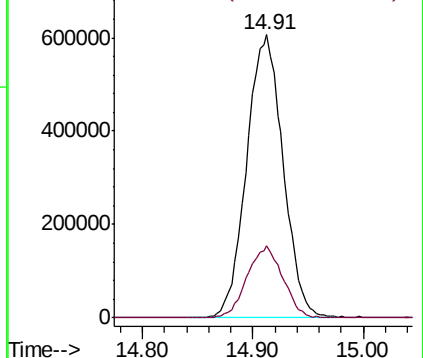
105 100

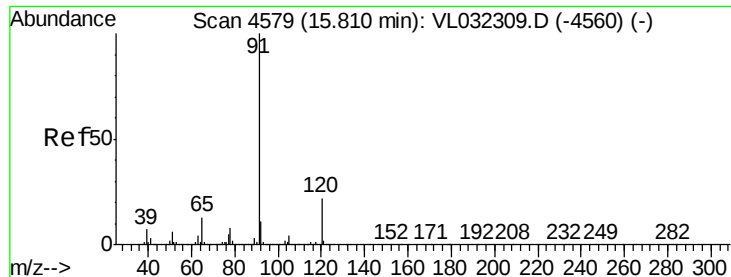
120 25.0 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.527 ppbv

RT: 15.81 min Scan# 4579

Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

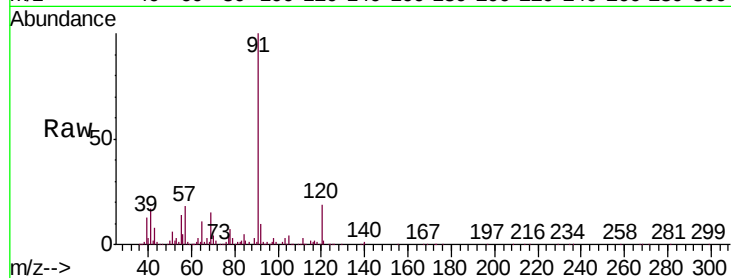
ClientSampleId :

Tot Ion:120 Resp: 81172

Ion Ratio Lower Upper

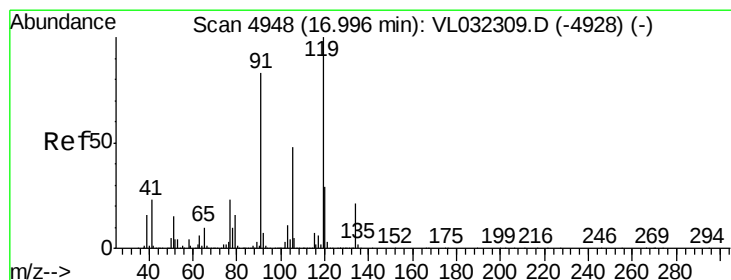
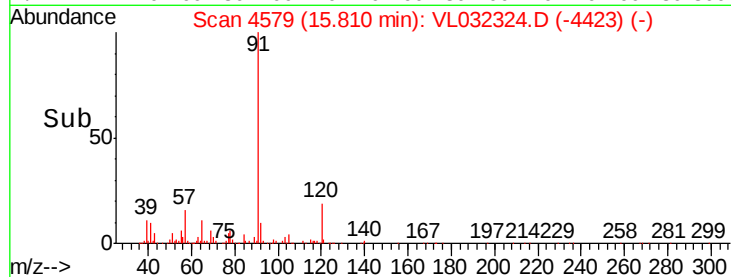
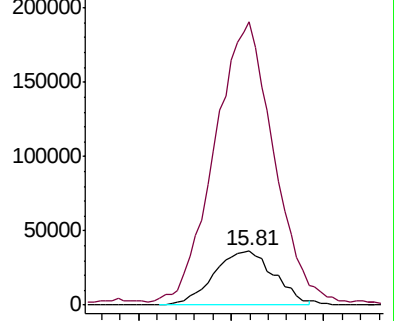
120 100

91 533.1 381.8 572.8



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.232 ppbv

RT: 17.01 min Scan# 4951

Delta R.T. 0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

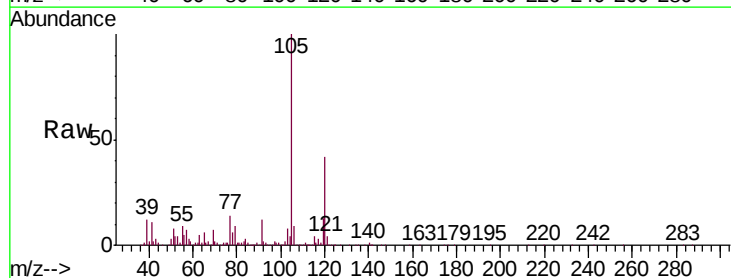
Tgt Ion:119 Resp: 115870

Ion Ratio Lower Upper

119 100

91 113.1 67.5 101.3#

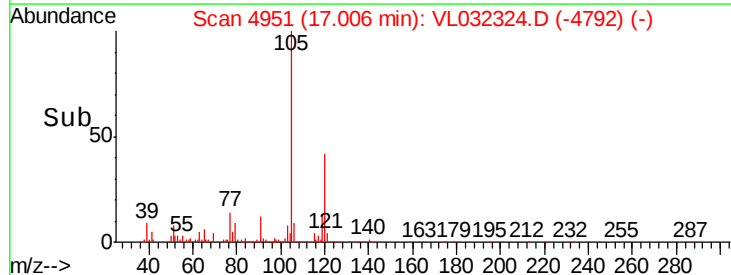
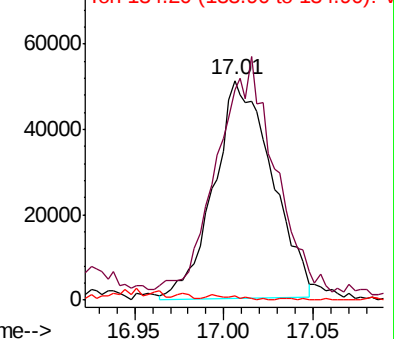
134 1.6 15.8 23.6#

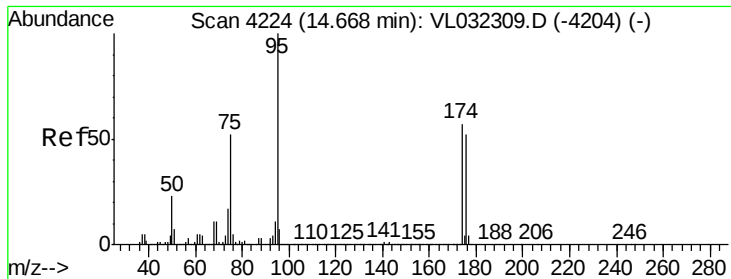


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.086 ppbv

RT: 14.66 min Scan# 4222

Delta R.T. -0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

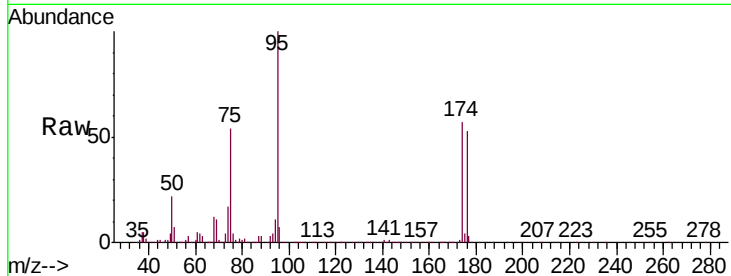
Tot Ion: 95 Resp: 3115193

Ion Ratio Lower Upper

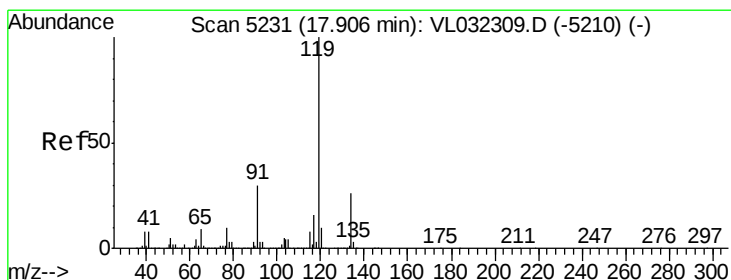
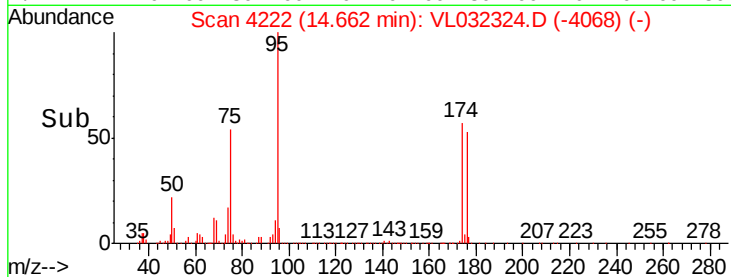
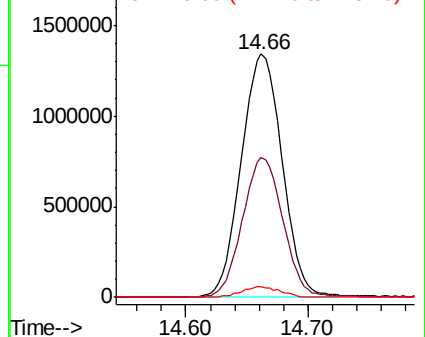
95 100

174 57.3 45.5 68.3

175 4.3 3.3 4.9



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 0.655 ppbv

RT: 17.91 min Scan# 5232

Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

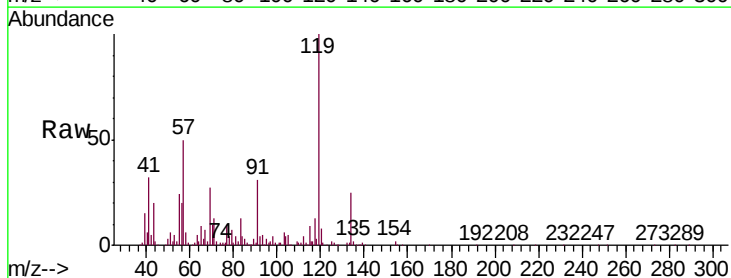
Tgt Ion: 119 Resp: 379580

Ion Ratio Lower Upper

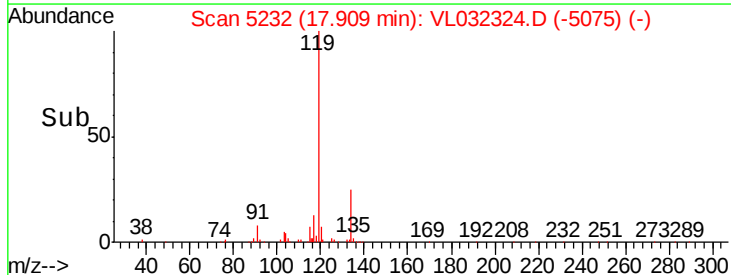
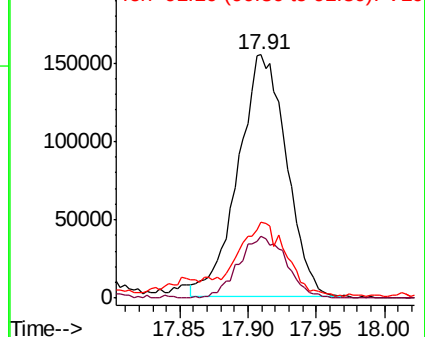
119 100

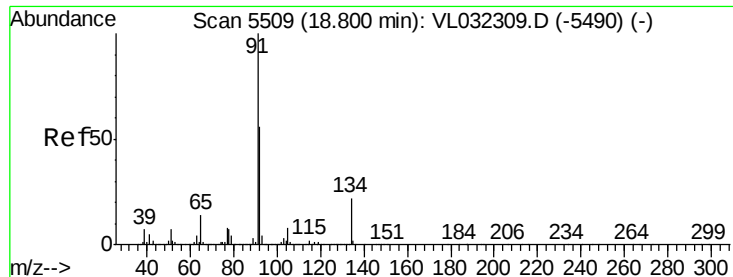
134 25.3 20.3 30.5

91 37.2 23.8 35.6#



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): VL0

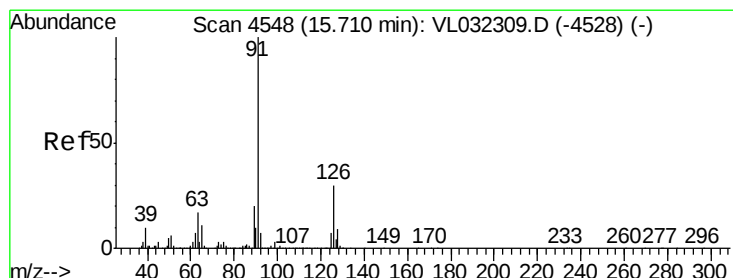
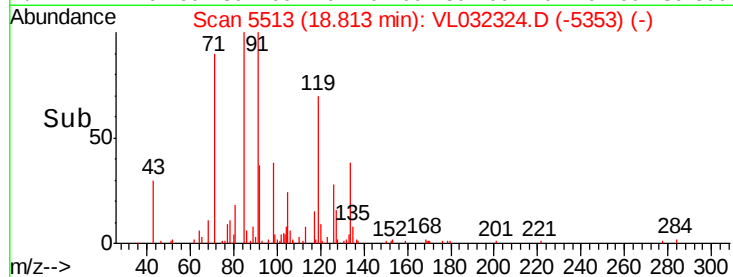
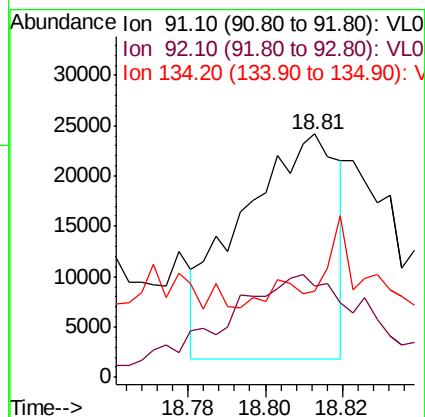
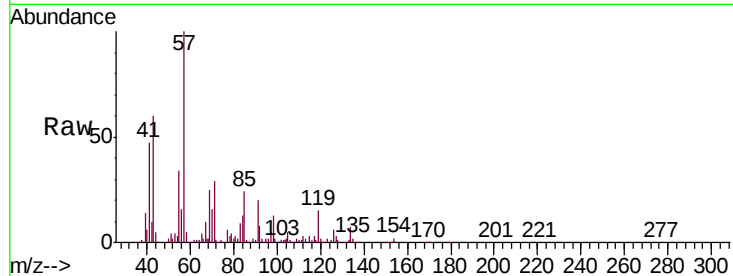




#70
n-Butylbenzene
Concen: 0.058 ppbv
RT: 18.81 min Scan# 5513
Delta R.T. 0.01 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

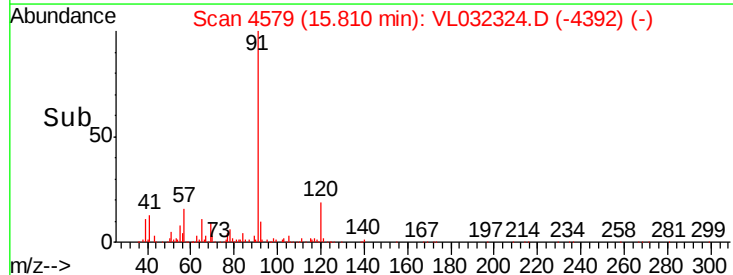
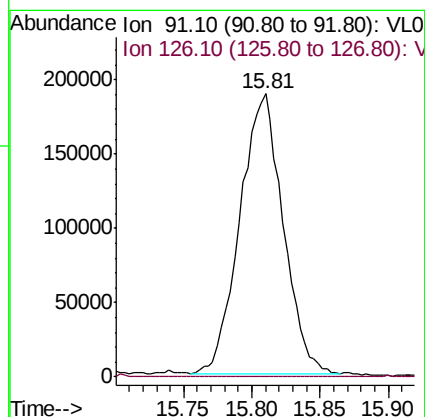
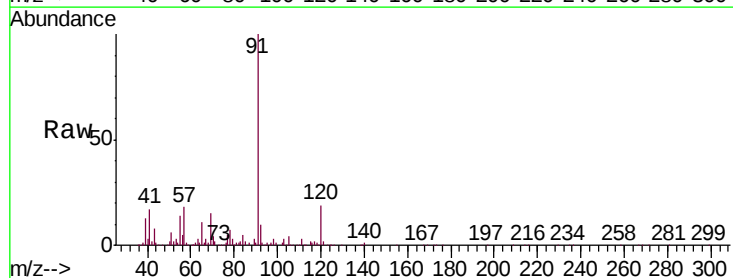
Instrument :
MSVOA_L
ClientSampleId :

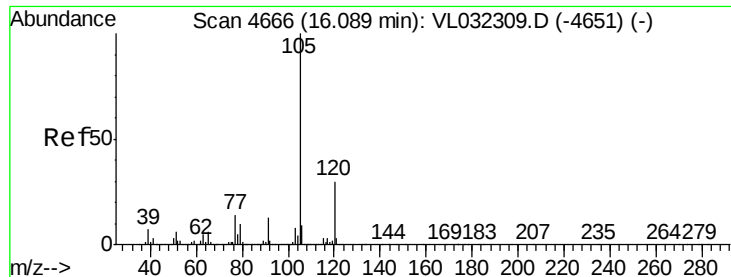
Tot Ion: 91 Resp: 38866
Ion Ratio Lower Upper
91 100
92 80.9 44.2 66.4#
134 0.0 17.4 26.2#



#71
2-Chlorotoluene
Concen: 0.897 ppbv
RT: 15.81 min Scan# 4579
Delta R.T. 0.10 min
Lab File: VL032324.D
Acq: 27 Jul 2018 18:28

Tgt Ion: 91 Resp: 416278
Ion Ratio Lower Upper
91 100
126 0.3 11.8 47.0#





#72

4-Ethyltoluene

Concen: 0.995 ppbv

RT: 16.08 min Scan# 4664

Delta R.T. -0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:105 Resp: 464265

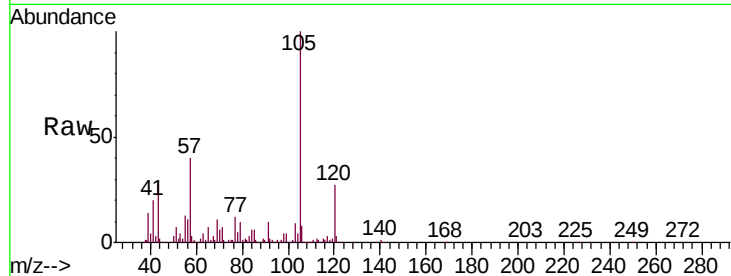
Ion Ratio Lower Upper

105 100

120 29.9 23.1 34.7

91 12.1 10.0 15.0

77 14.9 11.5 17.3



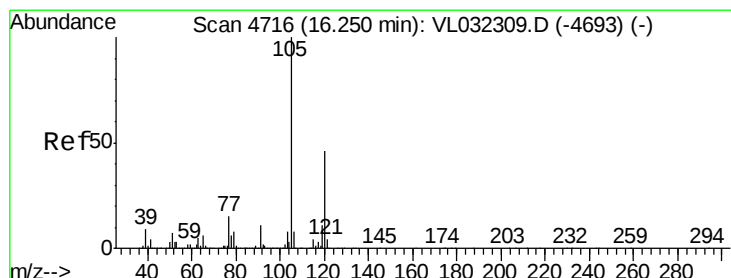
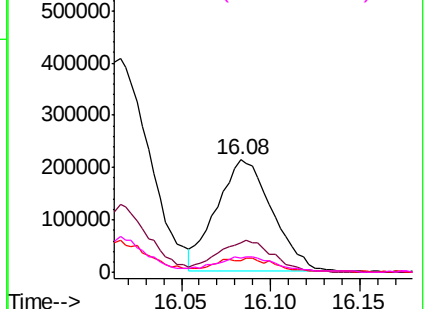
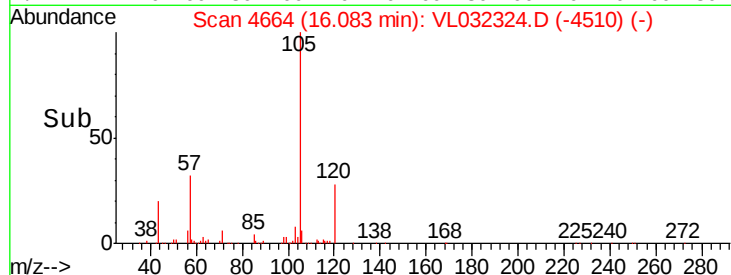
Abundance

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: 1.112 ppbv

RT: 16.25 min Scan# 4715

Delta R.T. -0.00 min

Lab File: VL032324.D

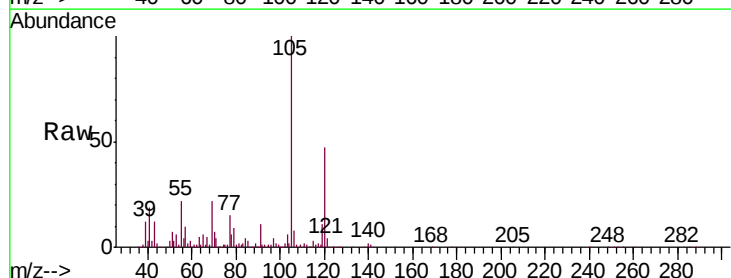
Acq: 27 Jul 2018 18:28

Tgt Ion:105 Resp: 510844

Ion Ratio Lower Upper

105 100

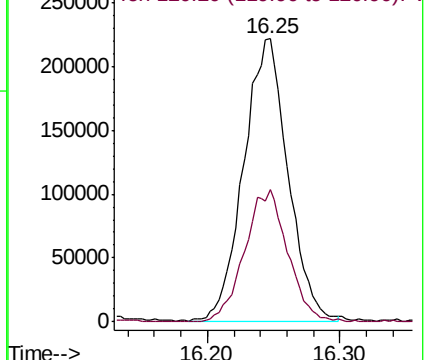
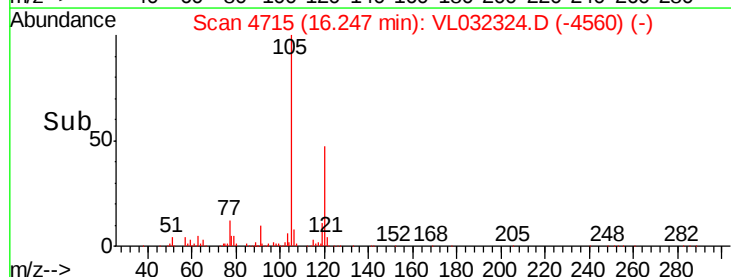
120 46.9 36.5 54.7

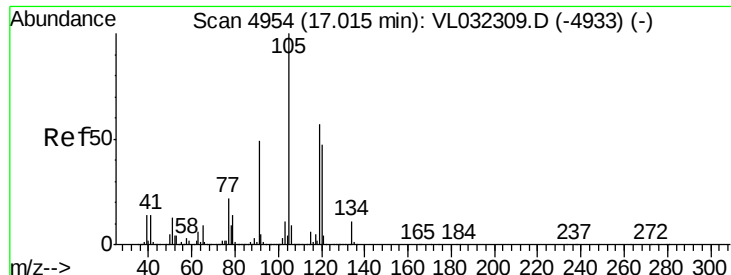


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 2.197 ppbv

RT: 17.01 min Scan# 4952

Delta R.T. -0.01 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 1064121

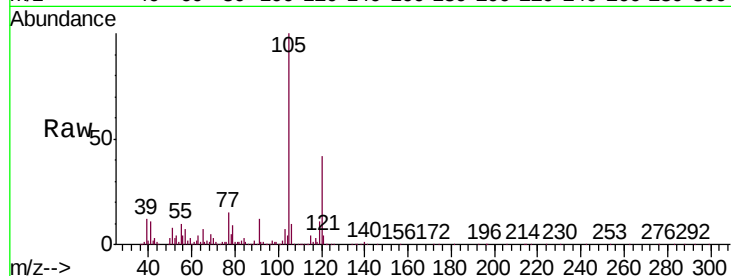
Ion Ratio Lower Upper

105 100

120 41.9 37.8 56.6

91 11.2 39.4 59.0#

77 14.8 17.6 26.4#

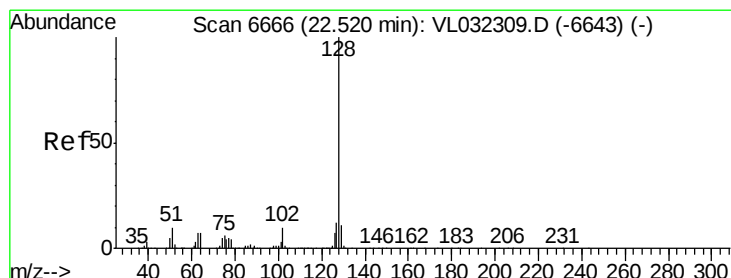
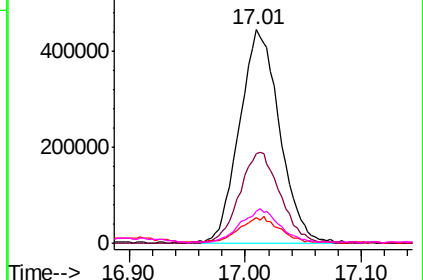
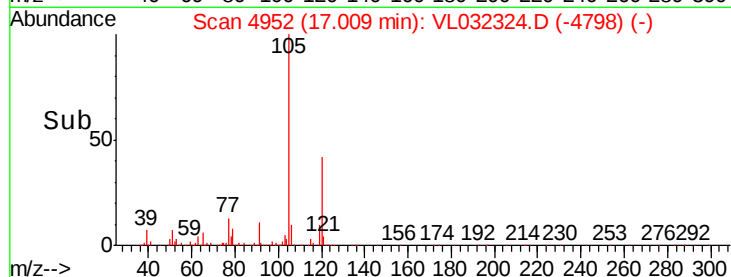


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#79

Naphthalene

Concen: 0.558 ppbv

RT: 22.52 min Scan# 6665

Delta R.T. -0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

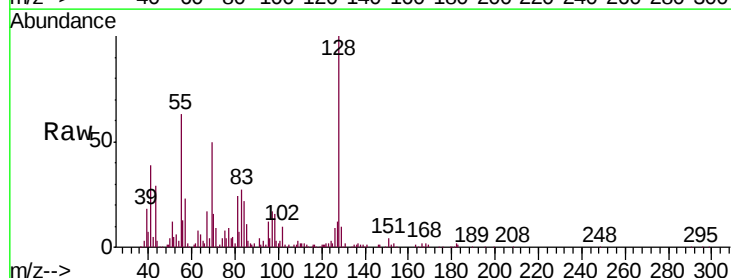
Tgt Ion:128 Resp: 234368

Ion Ratio Lower Upper

128 100

127 10.7 9.9 14.9

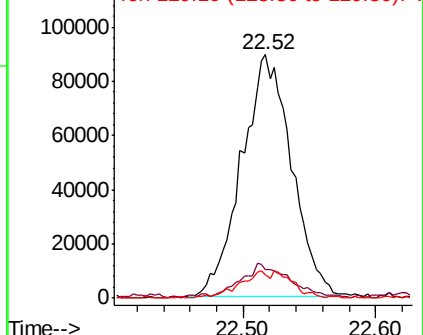
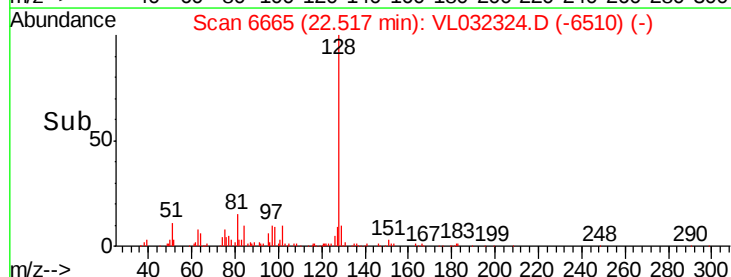
129 9.5 8.8 13.2

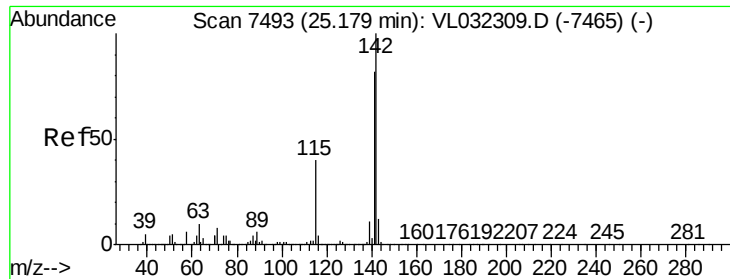


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.139 ppbv

RT: 25.18 min Scan# 7493

Delta R.T. 0.00 min

Lab File: VL032324.D

Acq: 27 Jul 2018 18:28

Instrument :

MSVOA_L

ClientSampleId :

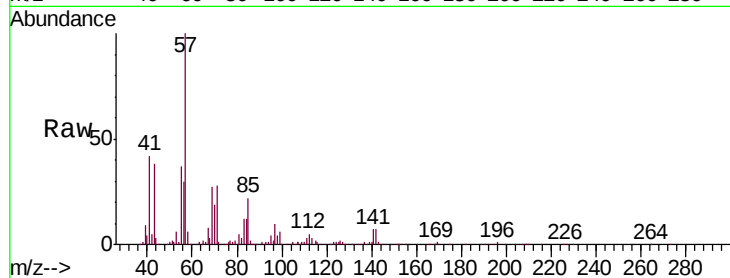
Tot Ion:142 Resp: 23119

Ion Ratio Lower Upper

142 100

141 99.4 66.7 100.1

115 53.9 31.1 46.7#



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

