

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032319.D
 Acq On : 27 Jul 2018 14:57
 Operator : SY/AP
 Sample : J4131-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 23:18:07 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	1760346	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3631234	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	4148023	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3081169	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.12	85	50547	0.238	ppbv 93
3) Chlorodifluoromethane	3.06	51	12619353	71.694	ppbv # 88
4) Chloromethane	3.22	50	85801	0.805	ppbv 91
9) Propene	3.29	41	663826	8.388	ppbv 94
10) Heptane	8.33	43	248349	0.894	ppbv 98
11) Trichlorofluoromethane	4.06	101	59947	0.296	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.61	101	6818	0.049	ppbv # 52
13) Ethanol	3.71	45	241491	10.618	ppbv 100
15) Acetone	3.95	43	2091284	12.605	ppbv 96
16) 1,3-Butadiene	3.39	39	211476	2.458	ppbv # 11
17) tert-Butyl alcohol	4.43	59	22905	0.434	ppbv # 73
19) Isopropyl Alcohol	4.11	45	14722	0.133	ppbv # 95
20) Methylene Chloride	4.47	84	1165553	17.478	ppbv 99
21) Allyl Chloride	4.47	41	49537	0.438	ppbv # 32
23) Vinyl Acetate	5.21	43	156251	0.525	ppbv # 1
25) Ethyl Acetate	5.85	43	1487140	3.994	ppbv # 84
26) Hexane	5.85	57	1699479	10.088	ppbv # 48
27) Carbon Disulfide	4.68	76	77606	0.507	ppbv # 89
28) Methyl tert-Butyl Ether	5.18	73	207297	0.910	ppbv 98
29) Chloroform	5.92	83	95638	0.390	ppbv 89
30) Cyclohexane	7.33	84	152675	1.162	ppbv # 73
31) cis-1,2-Dichloroethene	5.84	61	37659	0.241	ppbv # 31
34) 2-Butanone	5.40	43	1299948	5.531	ppbv 100
35) Carbon Tetrachloride	7.21	117	10482	0.051	ppbv # 79
36) Benzene	7.08	78	52457	0.164	ppbv 95
37) 1,2-Dichloroethane	6.49	62	36882	0.199	ppbv # 93
39) 1,2-Dichloropropane	7.37	63	1010228	6.273	ppbv # 26
41) Tetrahydrofuran	6.49	42	10369	0.078	ppbv # 40
42) Bromodichloromethane	8.00	83	11057	0.037	ppbv # 46
44) 2,2,4-Trimethylpentane	8.07	57	112460	0.162	ppbv # 17
50) 4-Methyl-2-Pentanone	8.96	43	80602	0.194	ppbv 93
51) 2-Hexanone	10.37	43	163251	0.517	ppbv # 98
52) Tetrachloroethene	11.45	164	4943	0.046	ppbv # 76
53) Toluene	10.03	91	1457650	3.809	ppbv 99
58) Ethyl Benzene	12.95	91	528270	1.016	ppbv 96
59) m/p-Xylene	13.20	91	1421168	3.210	ppbv 99
60) o-Xylene	13.93	91	780355	1.798	ppbv 97
61) Styrene	13.77	104	447463	1.401	ppbv 100
62) Isopropylbenzene	14.91	105	115013	0.186	ppbv 96
64) n-propylbenzene	15.81	120	6417	0.040	ppbv # 1
69) p-Isopropyltoluene	17.90	119	88126	0.146	ppbv 91

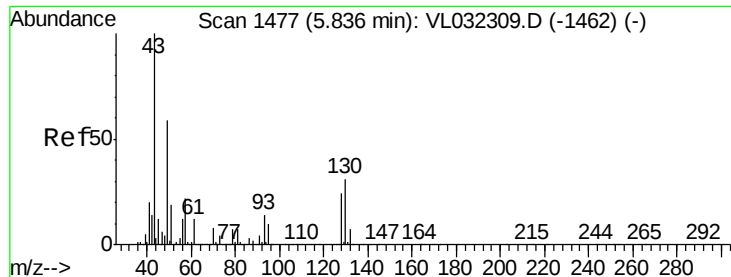
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032319.D
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Instrument :
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 ClientSampleId :

Quant Time: Jul 27 23:18:07 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)
71) 2-Chlorotoluene	15.80	91	41742	0.086	ppbv #	46
72) 4-Ethyltoluene	16.08	105	56413	0.116	ppbv #	54
73) 1,3,5-Trimethylbenzene	16.24	105	90040	0.188	ppbv	95
74) 1,2,4-Trimethylbenzene	17.01	105	128043	0.254	ppbv #	72
79) Naphthalene	22.51	128	15375	0.035	ppbv	97
80) Naphthalene,2-methyl-	25.18	142	7951	0.046	ppbv #	94

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

ClientSampled :

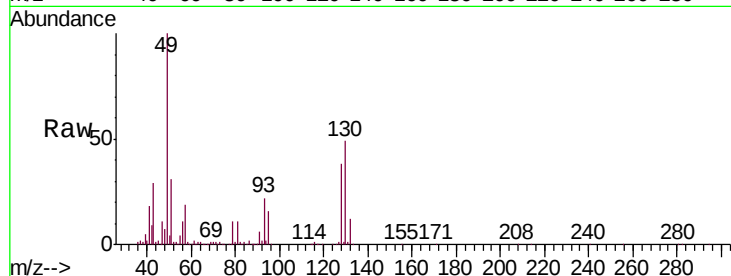
Tot Ion: 49 Resp: 1760346

Ion Ratio Lower Upper

49 100

128 39.0 20.2 60.6

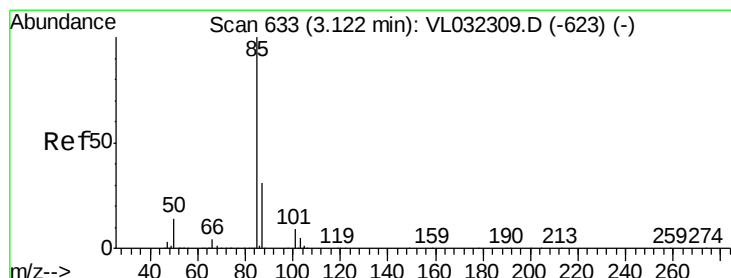
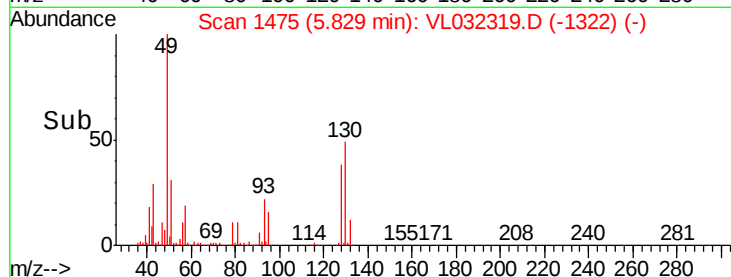
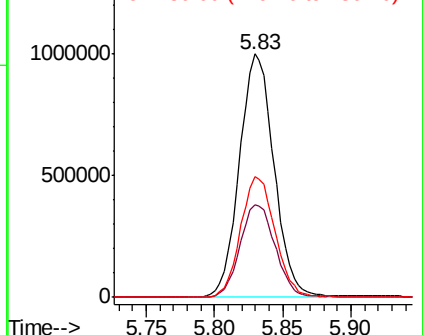
130 50.0 25.8 77.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.238 ppbv

RT: 3.12 min Scan# 633

Delta R.T. -0.00 min

Lab File: VL032319.D

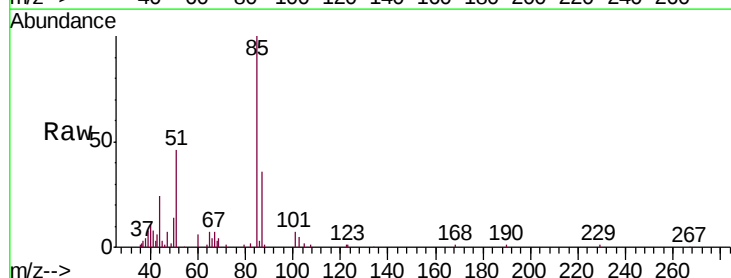
Acq: 27 Jul 2018 14:57

Tgt Ion: 85 Resp: 50547

Ion Ratio Lower Upper

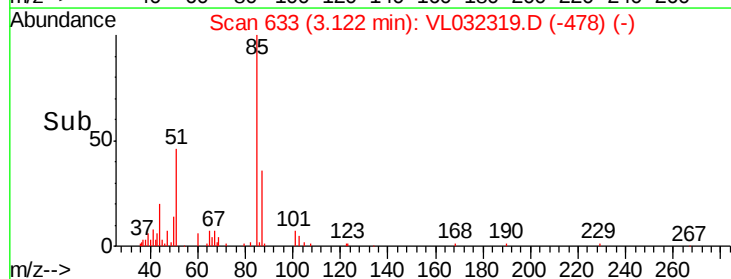
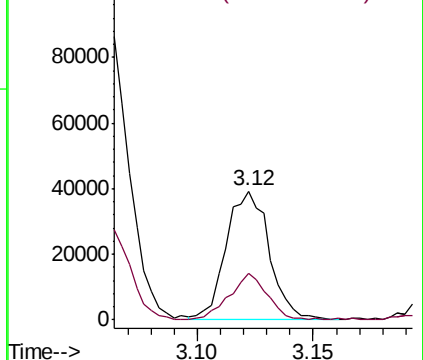
85 100

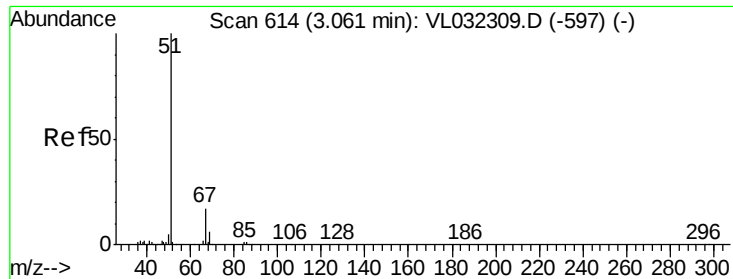
87 35.6 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

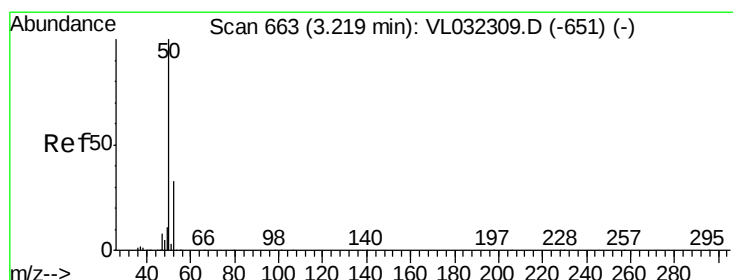
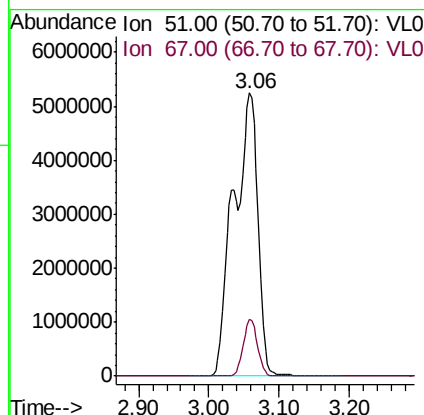
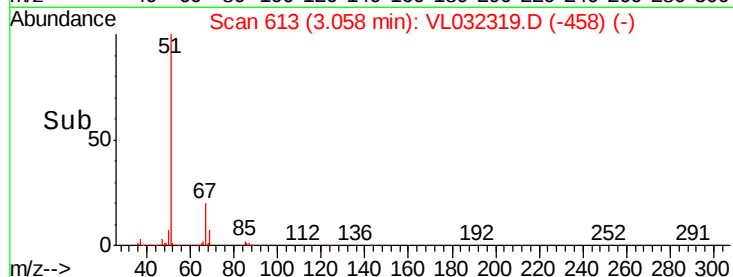
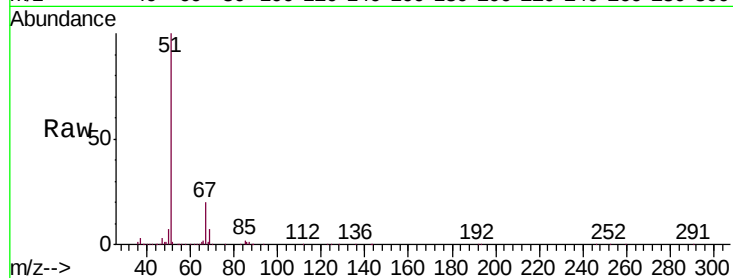




#3
Chlorodifluoromethane
Concen: 71.694 ppbv
RT: 3.06 min Scan# 613
Delta R.T. -0.00 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

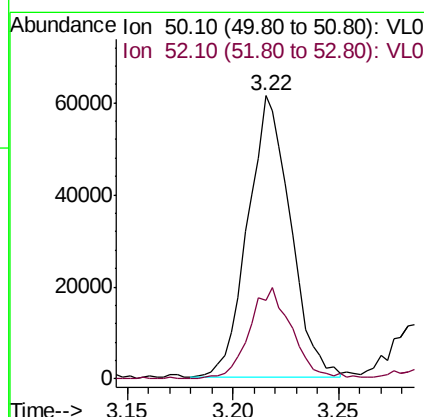
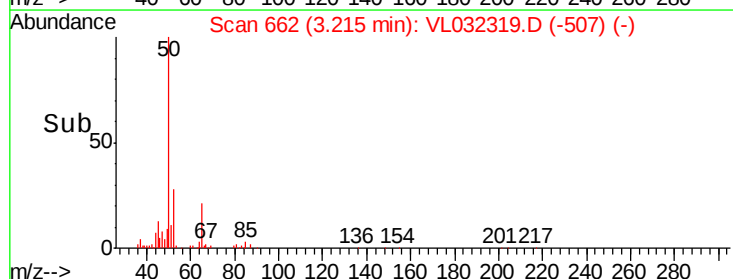
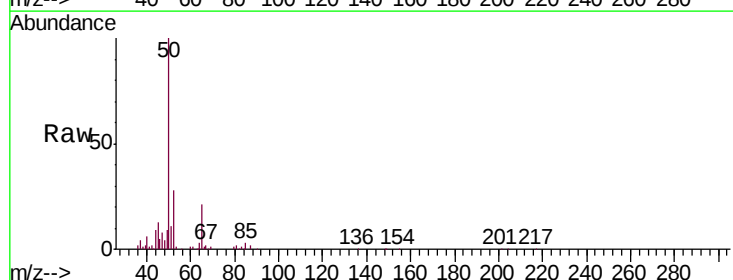
Instrument :
MSVOA_L
ClientSampleId :

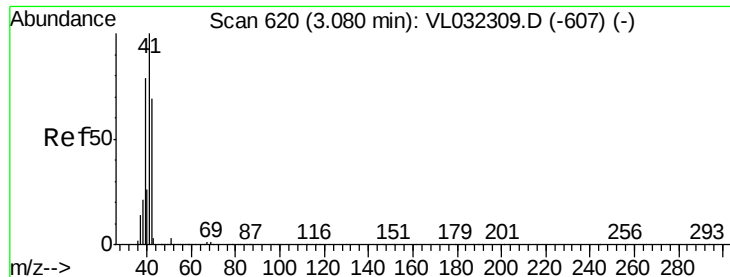
Tot Ion: 51 Resp:12619353
Ion Ratio Lower Upper
51 100
67 11.8 13.5 20.3#



#4
Chloromethane
Concen: 0.805 ppbv
RT: 3.22 min Scan# 662
Delta R.T. -0.00 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

Tgt Ion: 50 Resp: 85801
Ion Ratio Lower Upper
50 100
52 27.7 26.2 39.4





#9

Propene

Concen: 8.388 ppbv

RT: 3.29 min Scan# 684

Delta R.T. 0.21 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

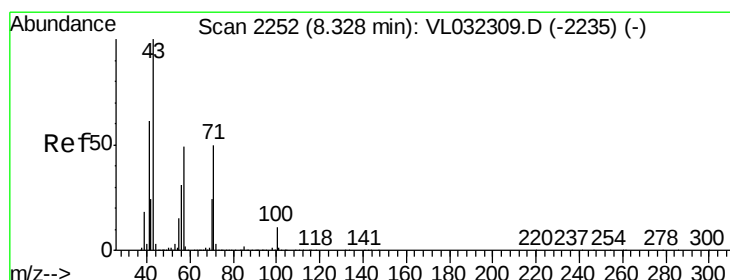
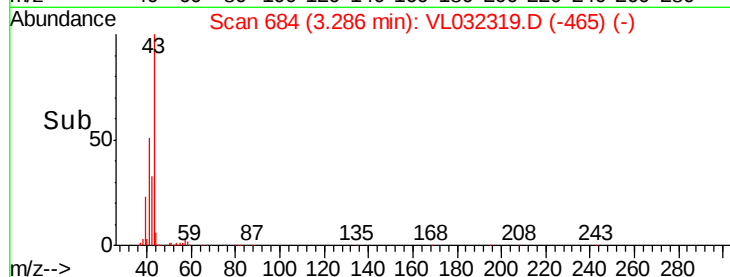
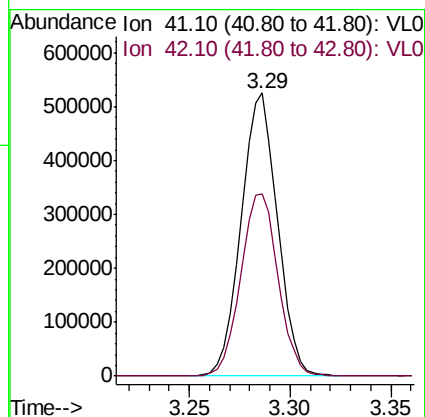
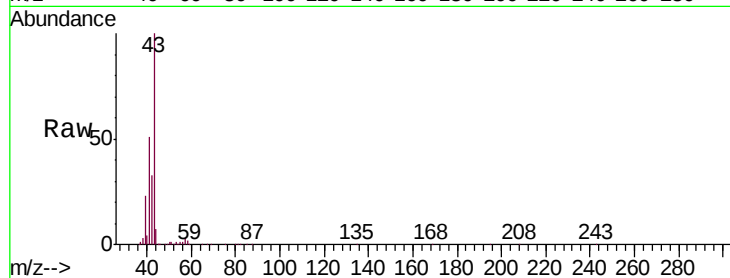
ClientSampleId :

Tot Ion: 41 Resp: 663826

Ion Ratio Lower Upper

41 100

42 66.1 56.8 85.2



#10

Heptane

Concen: 0.894 ppbv

RT: 8.33 min Scan# 2252

Delta R.T. -0.00 min

Lab File: VL032319.D

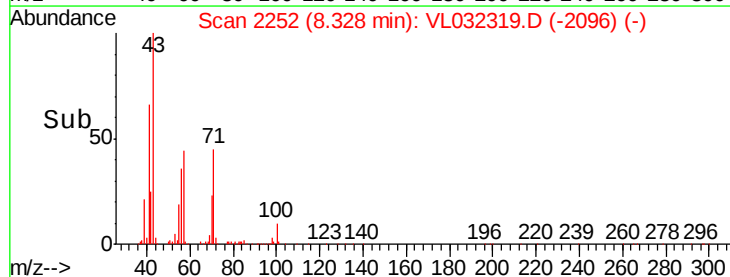
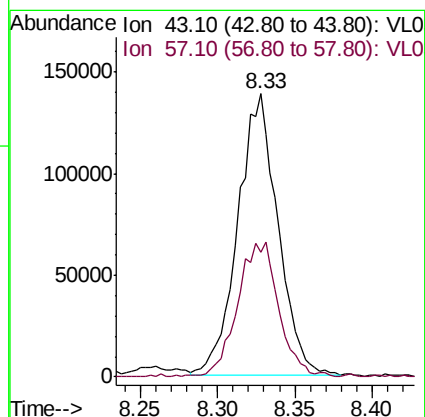
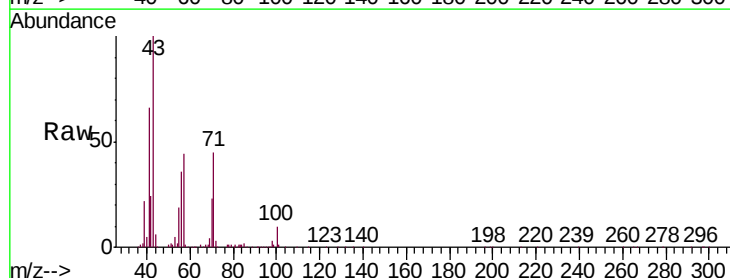
Acq: 27 Jul 2018 14:57

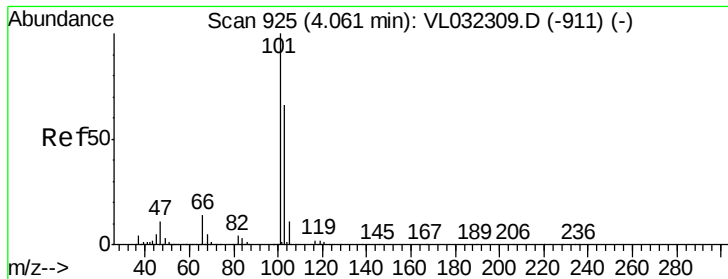
Tgt Ion: 43 Resp: 248349

Ion Ratio Lower Upper

43 100

57 50.1 39.0 58.4





#11

Trichlorofluoromethane

Concen: 0.296 ppbv

RT: 4.06 min Scan# 925

Delta R.T. -0.00 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

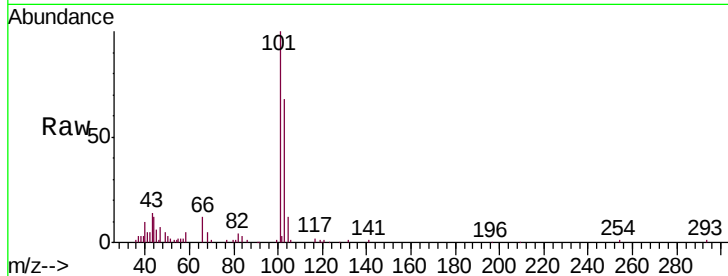
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:101 Resp: 59947

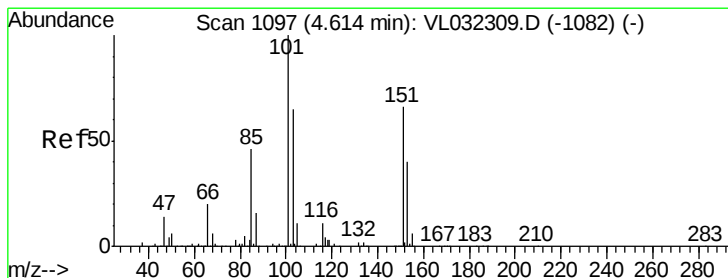
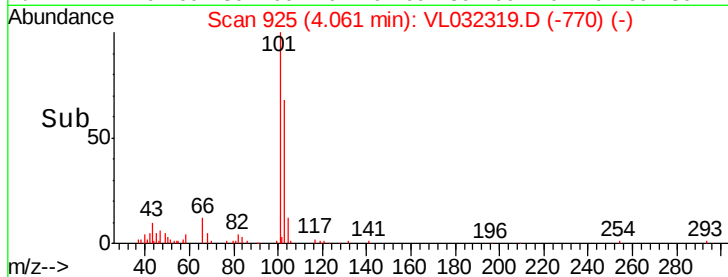
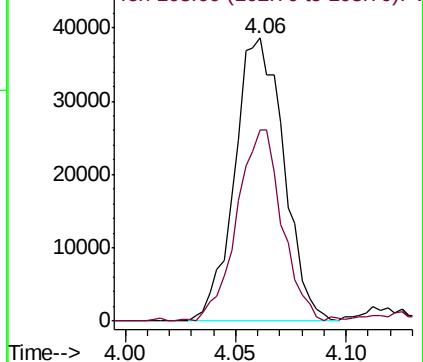
Ion Ratio Lower Upper

101 100

103 67.0 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.049 ppbv

RT: 4.61 min Scan# 1097

Delta R.T. -0.00 min

Lab File: VL032319.D

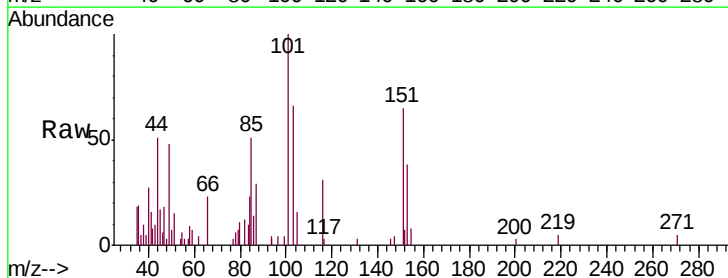
Acq: 27 Jul 2018 14:57

Tgt Ion:101 Resp: 6818

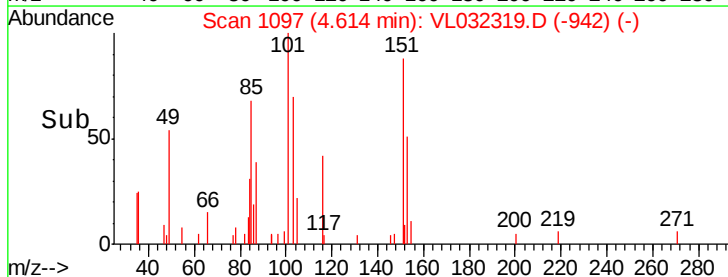
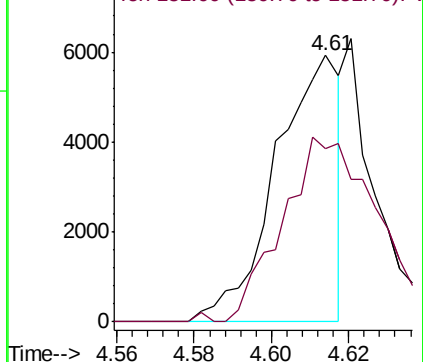
Ion Ratio Lower Upper

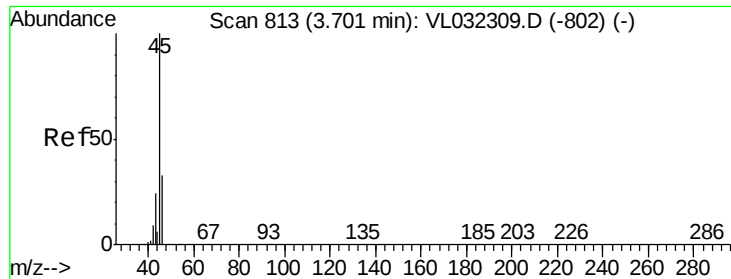
101 100

151 103.3 52.4 78.6#



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 151.00 (150.70 to 151.70): V

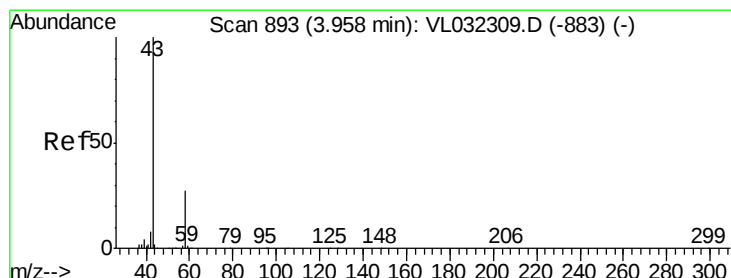
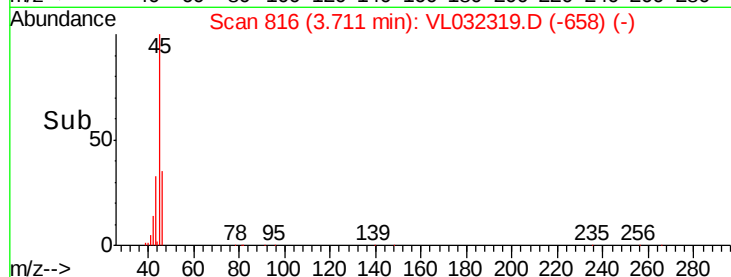
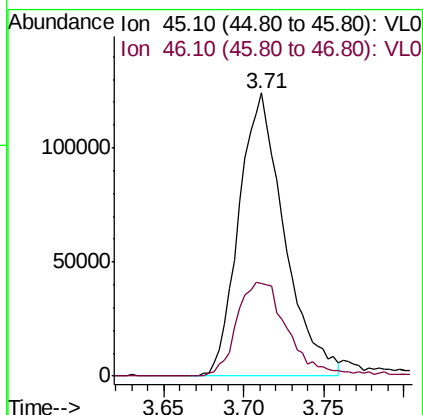
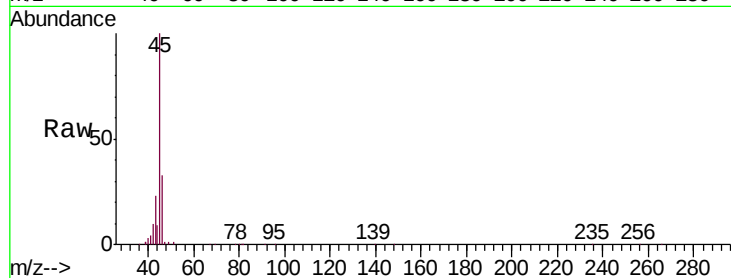




#13
Ethanol
Concen: 10.618 ppbv
RT: 3.71 min Scan# 816
Delta R.T. 0.01 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

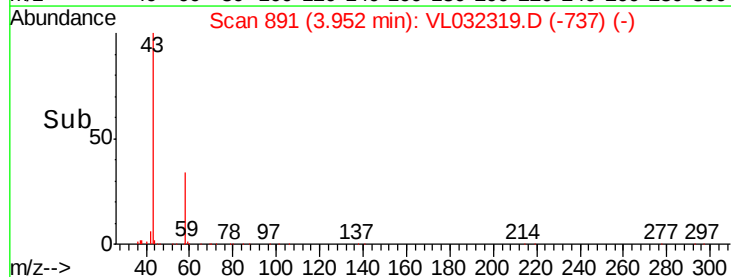
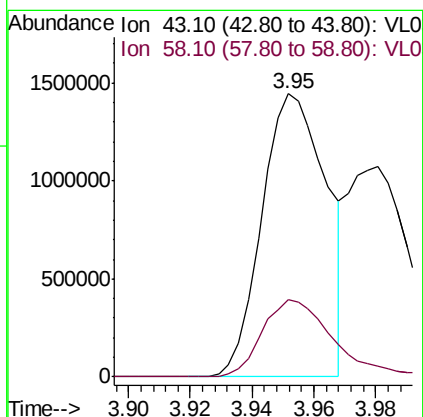
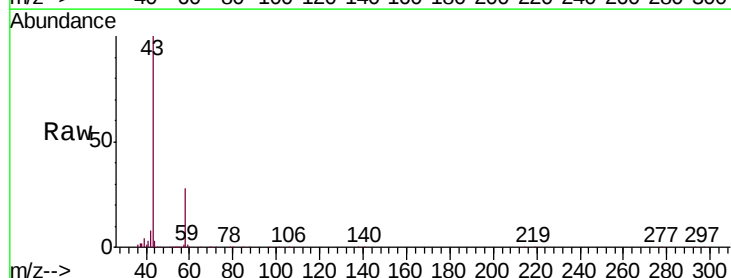
Instrument :
MSVOA_L
ClientSampled :

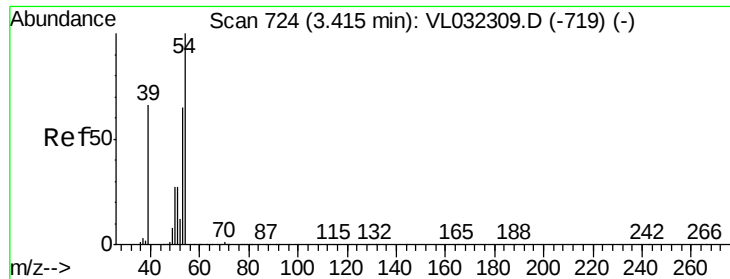
Tot Ion: 45 Resp: 241491
Ion Ratio Lower Upper
45 100
46 37.9 15.2 60.6



#15
Acetone
Concen: 12.605 ppbv
RT: 3.95 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

Tgt Ion: 43 Resp: 2091284
Ion Ratio Lower Upper
43 100
58 30.3 22.5 33.7

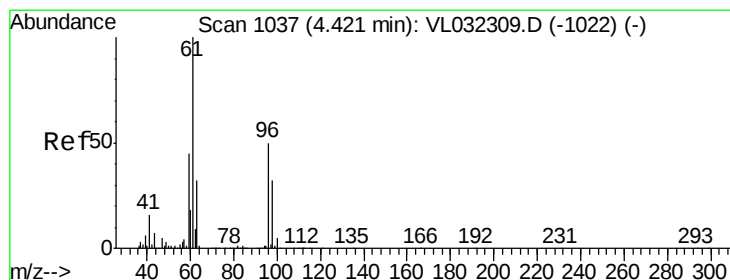
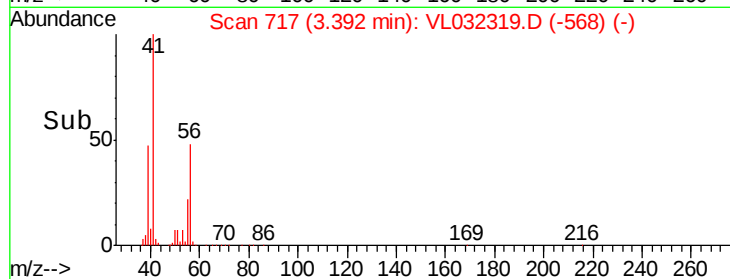
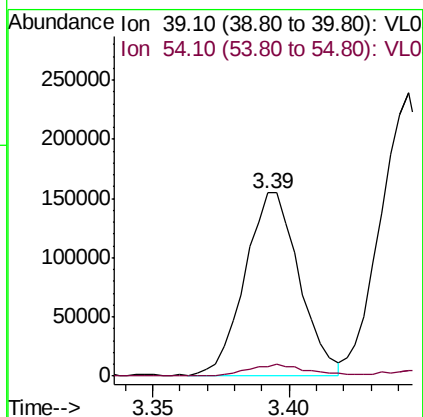
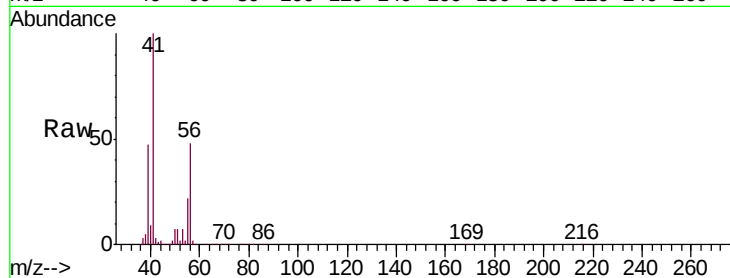




#16
 1,3-Butadiene
 Concen: 2.458 ppbv
 RT: 3.39 min Scan# 717
 Delta R.T. -0.02 min
 Lab File: VL032319.D
 Acq: 27 Jul 2018 14:57

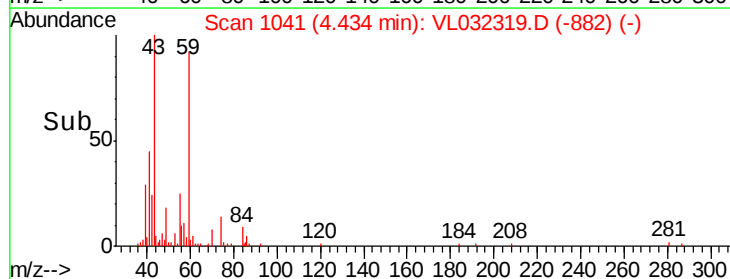
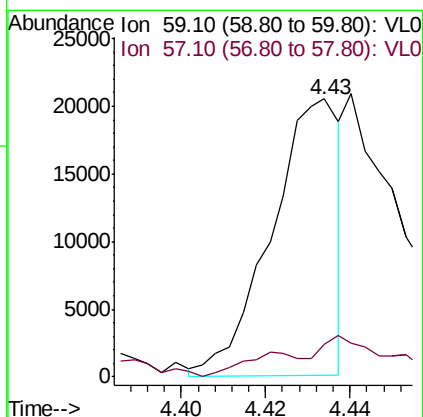
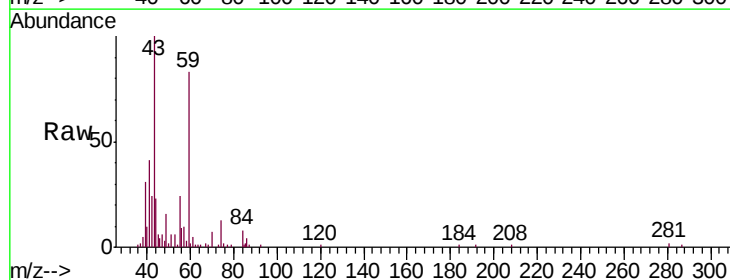
Instrument :
 MSVOA_L
 ClientSampleID :

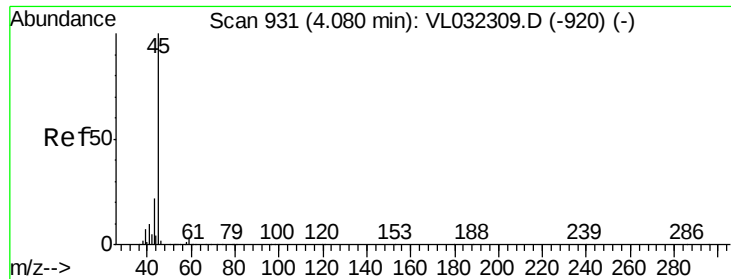
Tot Ion: 39 Resp: 211476
 Ion Ratio Lower Upper
 39 100
 54 7.1 74.3 111.5#



#17
 tert-Butyl alcohol
 Concen: 0.434 ppbv
 RT: 4.43 min Scan# 1041
 Delta R.T. 0.01 min
 Lab File: VL032319.D
 Acq: 27 Jul 2018 14:57

Tgt Ion: 59 Resp: 22905
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#





#19

Isopropyl Alcohol

Concen: 0.133 ppbv

RT: 4.11 min Scan# 939

Delta R.T. 0.03 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

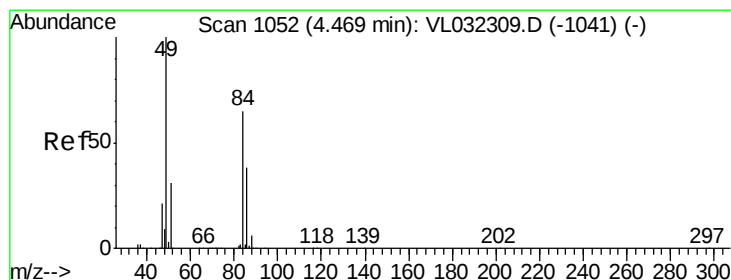
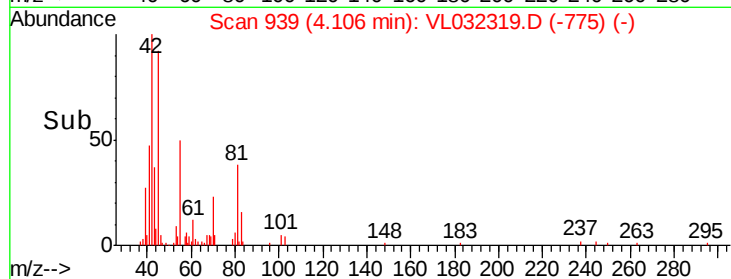
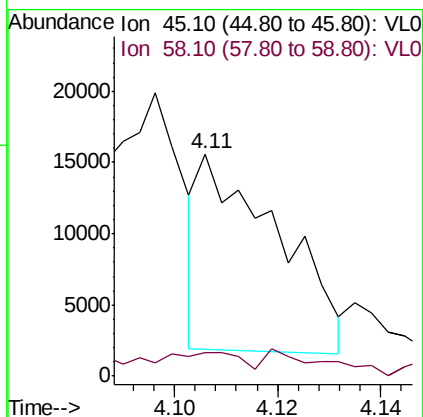
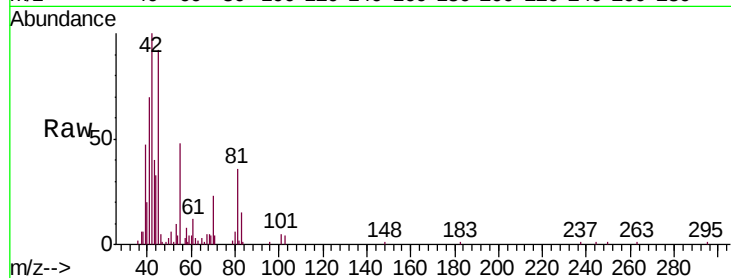
ClientSampleId :

Tot Ion: 45 Resp: 14722

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#



#20

Methylene Chloride

Concen: 17.478 ppbv

RT: 4.47 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Tgt Ion: 84 Resp: 1165553

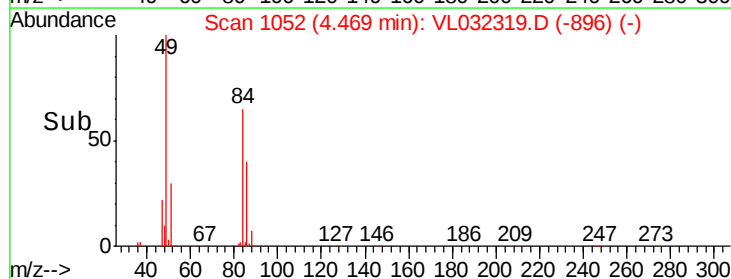
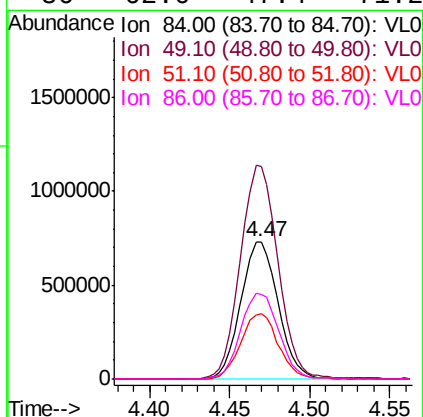
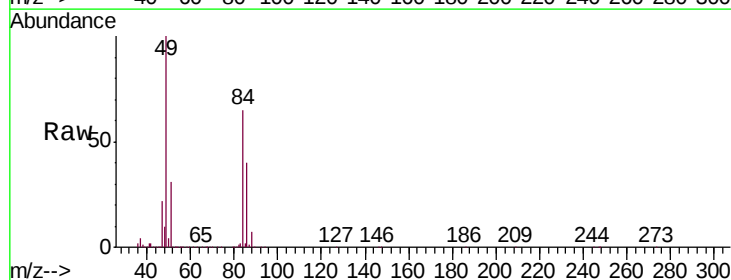
Ion Ratio Lower Upper

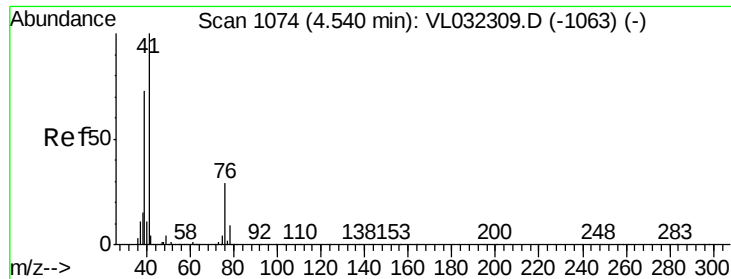
84 100

49 155.0 123.4 185.0

51 47.3 38.2 57.2

86 62.0 47.4 71.2

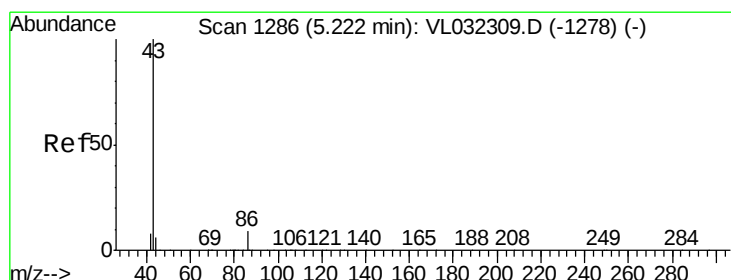
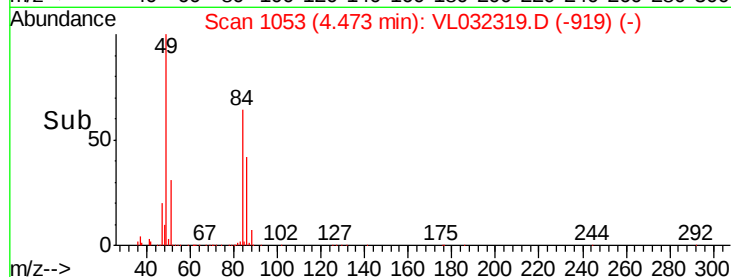
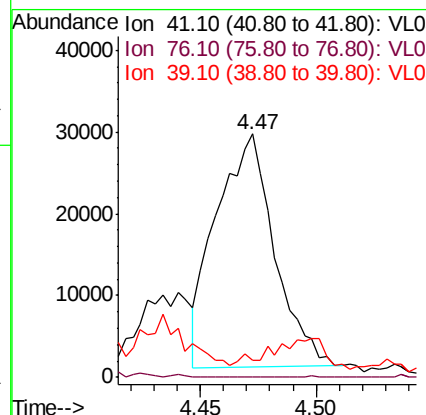
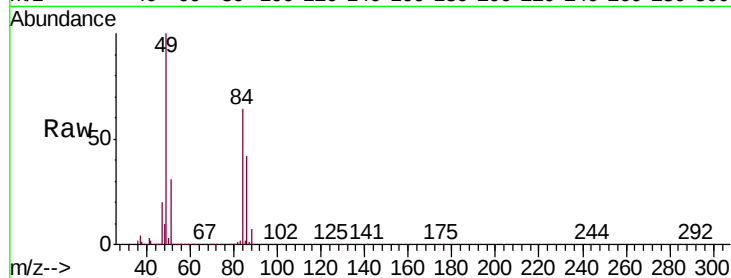




#21
Allvl Chloride
Concen: 0.438 ppbv
RT: 4.47 min Scan# 1053
Delta R.T. -0.07 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

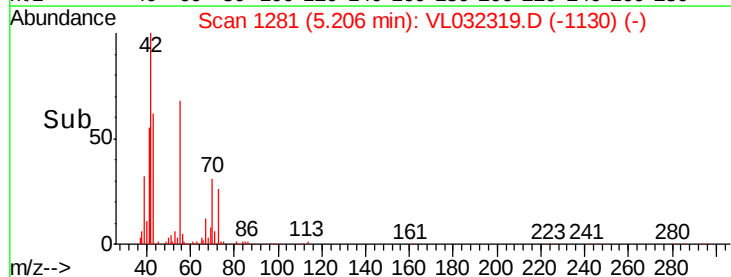
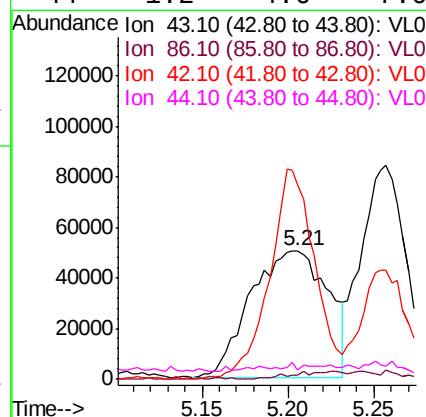
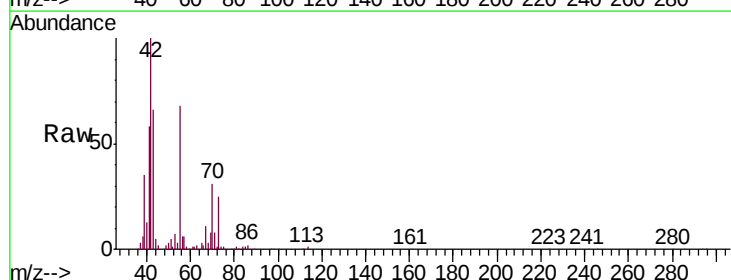
Instrument :
MSVOA_L
ClientSampleId :

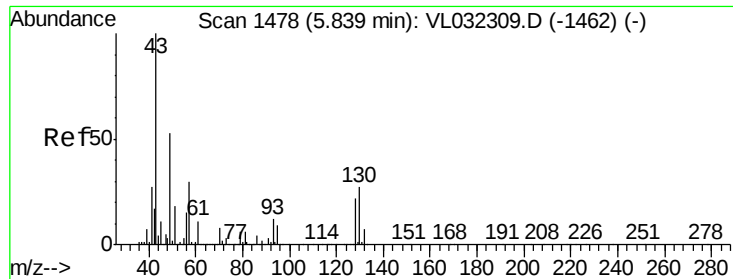
Tot Ion: 41 Resp: 49537
Ion Ratio Lower Upper
41 100
76 0.0 23.1 34.7#
39 11.2 58.2 87.2#



#23
Vinyl Acetate
Concen: 0.525 ppbv
RT: 5.21 min Scan# 1281
Delta R.T. -0.02 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

Tgt Ion: 43 Resp: 156251
Ion Ratio Lower Upper
43 100
86 2.7 6.3 9.5#
42 153.2 7.0 10.4#
44 1.2 4.6 7.0#



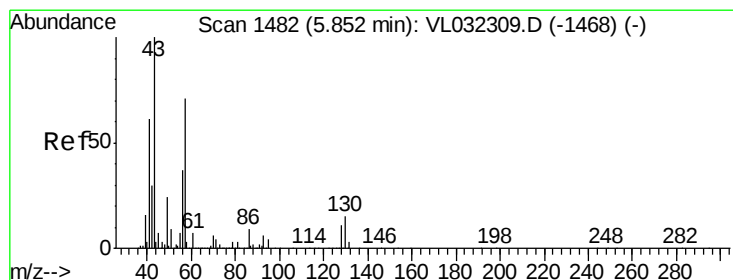
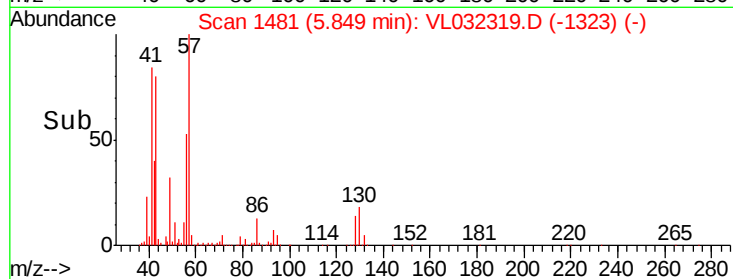
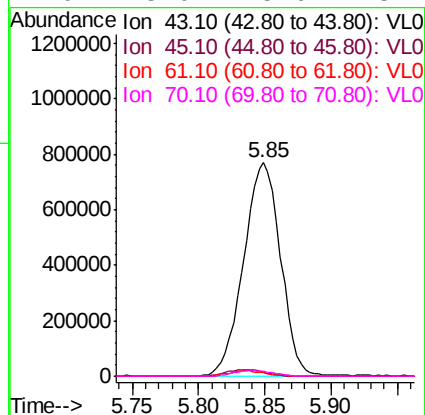
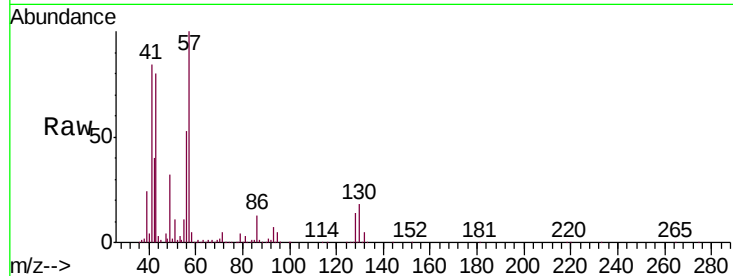


#25
Ethyl Acetate
Concen: 3.994 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. 0.01 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1487140

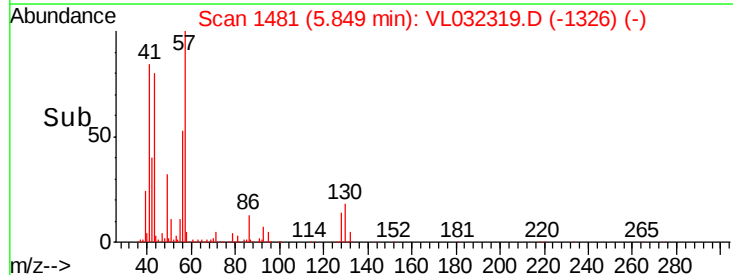
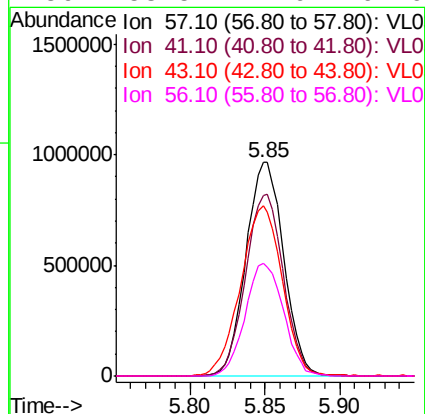
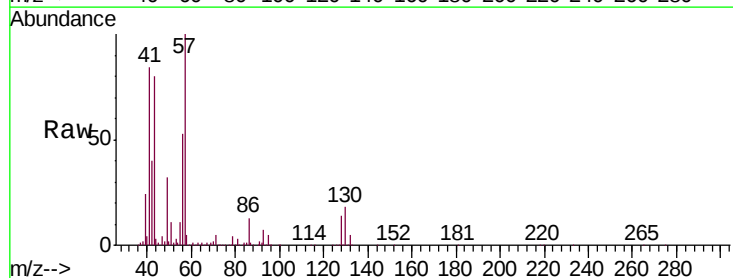
Ion	Ratio	Lower	Upper
43	100		
45	3.4	8.1	12.1#
61	2.6	7.4	11.0#
70	3.0	5.6	8.4#

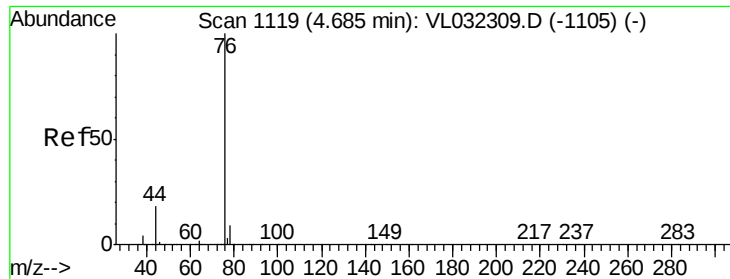


#26
Hexane
Concen: 10.088 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.00 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

Tgt Ion: 57 Resp: 1699479

Ion	Ratio	Lower	Upper
57	100		
41	85.5	68.1	102.1
43	87.5	177.4	266.2#
56	53.5	41.9	62.9





#27

Carbon Disulfide

Concen: 0.507 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. -0.00 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

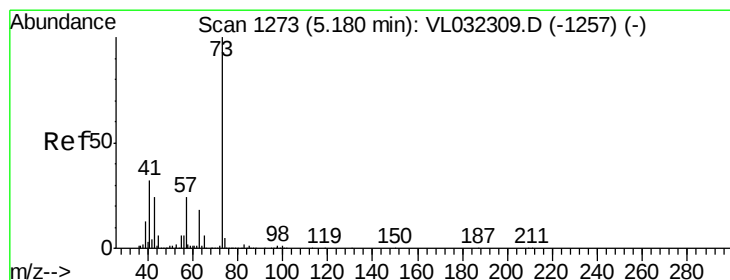
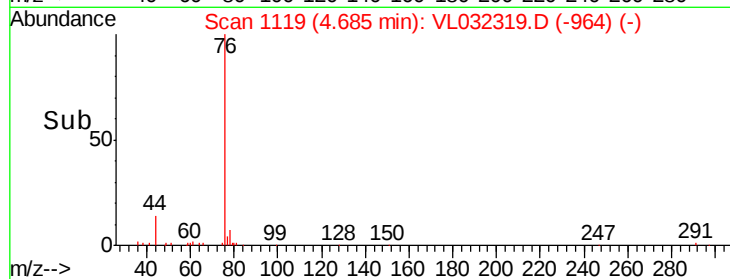
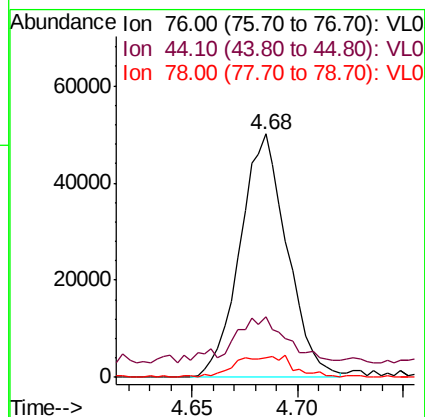
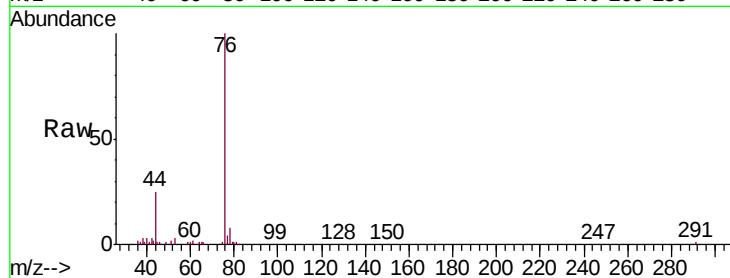
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 76 Resp: 77606

Ion	Ratio	Lower	Upper
76	100		
44	23.9	14.0	21.0#
78	11.3	7.5	11.3



#28

Methyl tert-Butyl Ether

Concen: 0.910 ppbv

RT: 5.18 min Scan# 1274

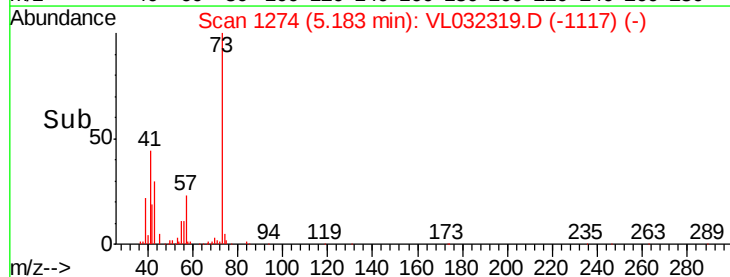
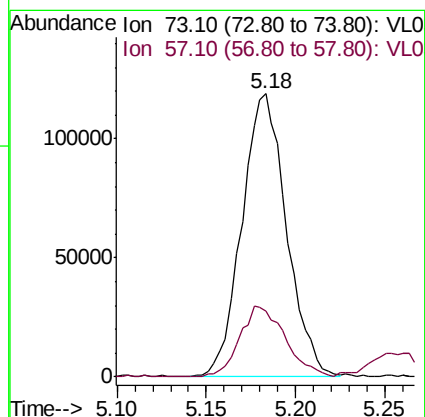
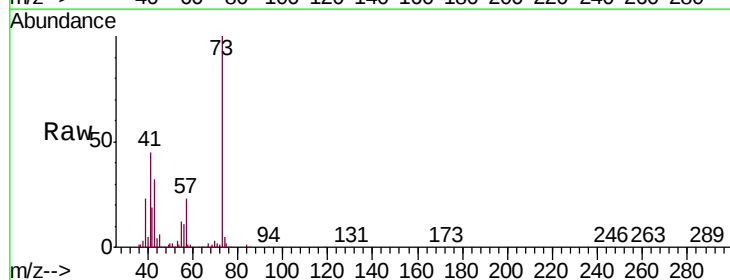
Delta R.T. 0.00 min

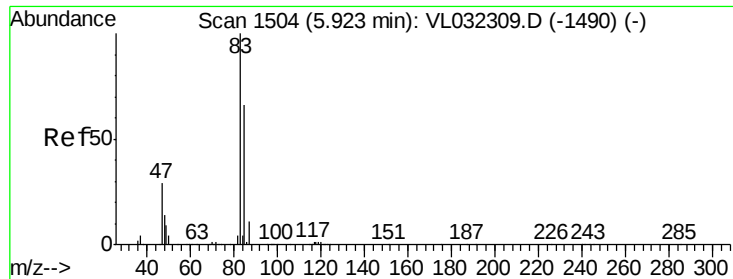
Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Tgt Ion: 73 Resp: 207297

Ion	Ratio	Lower	Upper
73	100		
57	25.2	19.4	29.0

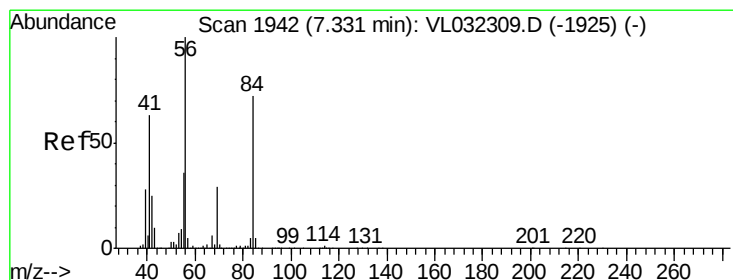
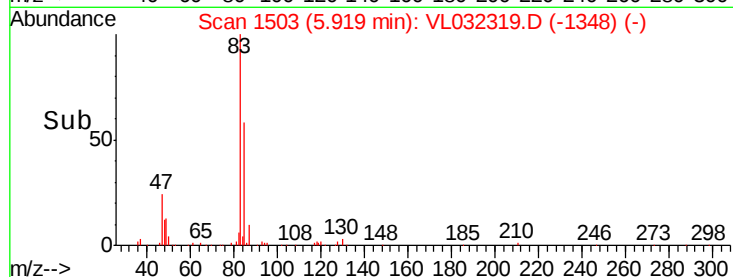
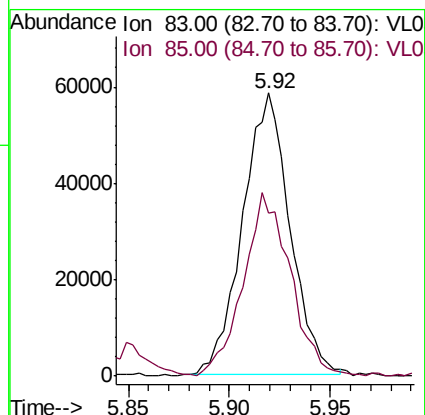
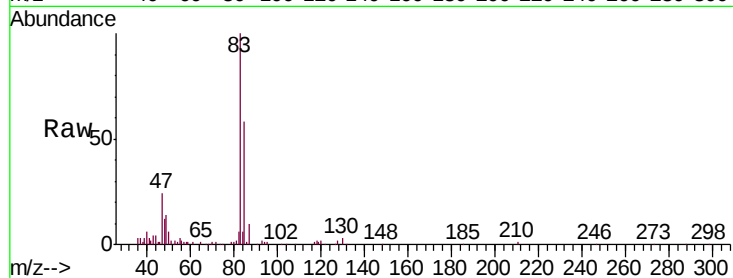




#29
Chloroform
Concen: 0.390 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. -0.00 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

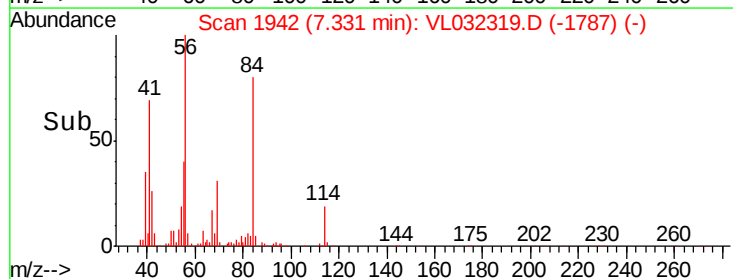
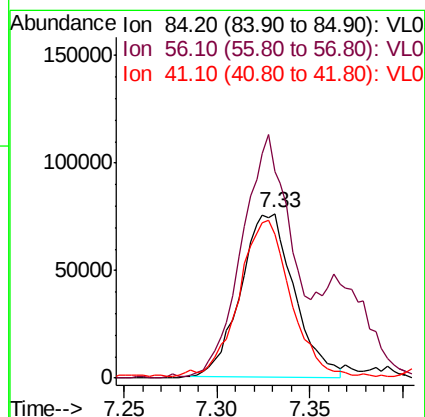
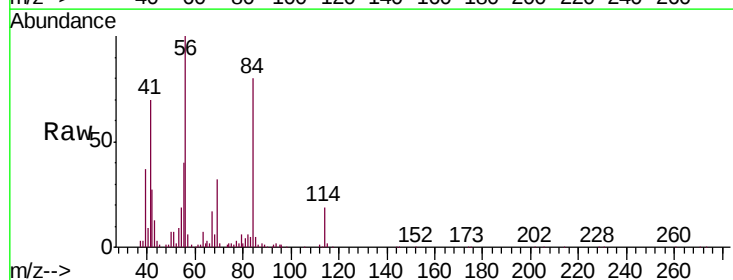
Instrument :
MSVOA_L
ClientSampleId :

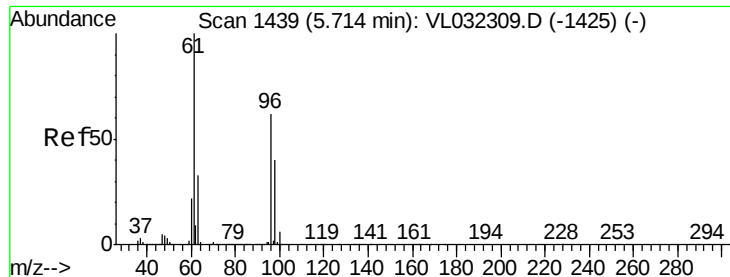
Tot Ion: 83 Resp: 95638
Ion Ratio Lower Upper
83 100
85 57.4 52.9 79.3



#30
Cyclohexane
Concen: 1.162 ppbv
RT: 7.33 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

Tgt Ion: 84 Resp: 152675
Ion Ratio Lower Upper
84 100
56 195.8 116.8 175.2#
41 91.7 70.0 105.0

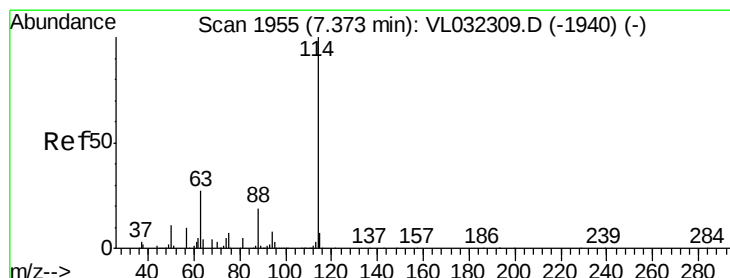
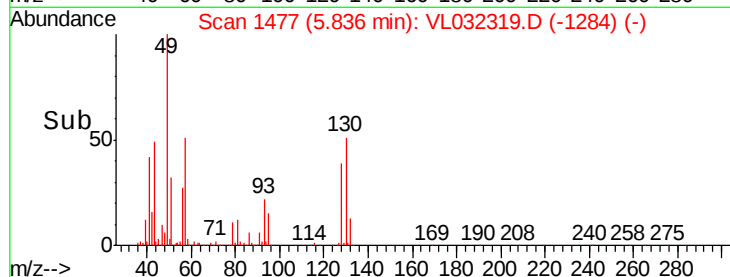
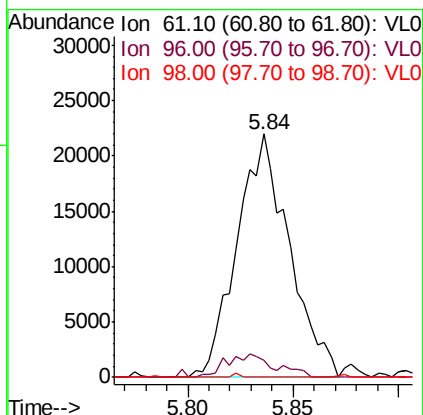
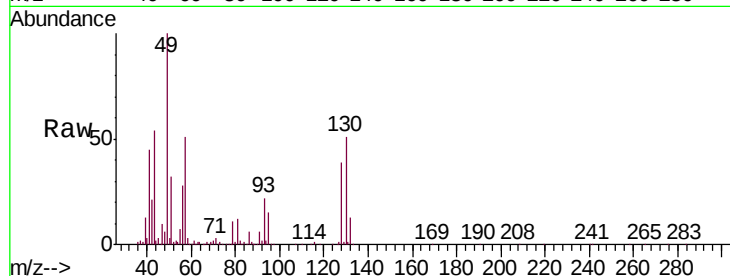




#31
 cis-1,2-Dichloroethene
 Concen: 0.241 ppbv
 RT: 5.84 min Scan# 1477
 Delta R.T. 0.12 min
 Lab File: VL032319.D
 Acq: 27 Jul 2018 14:57

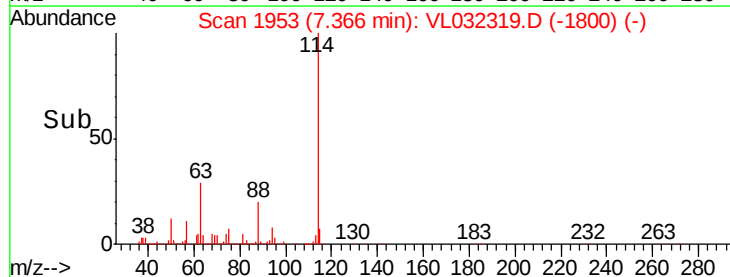
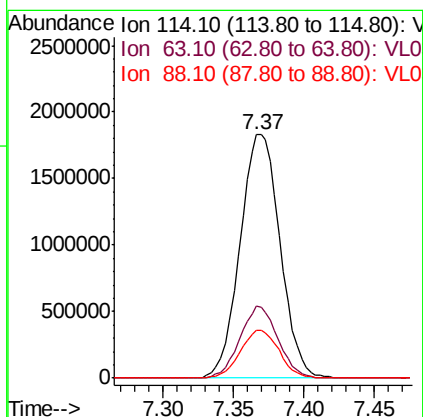
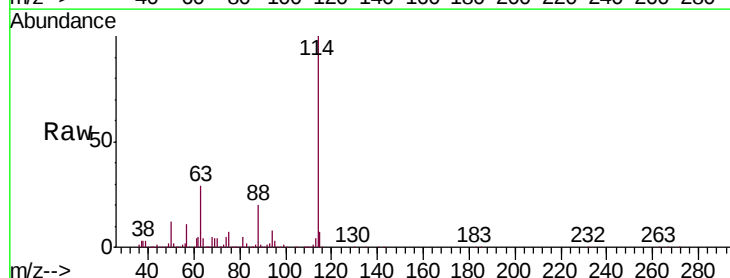
Instrument :
 MSVOA_L
 ClientSampled :

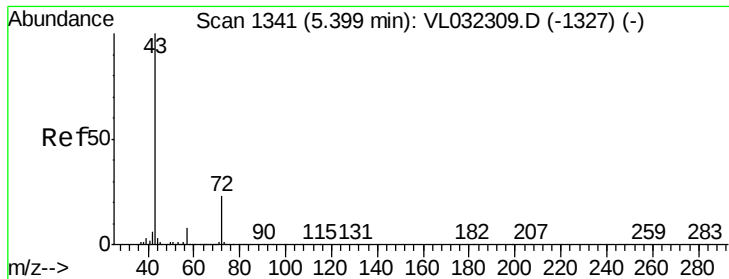
Tot Ion	Ratio	Lower	Upper
61	100		
96	7.1	49.8	74.6#
98	0.0	31.8	47.6#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.37 min Scan# 1953
 Delta R.T. -0.01 min
 Lab File: VL032319.D
 Acq: 27 Jul 2018 14:57

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.4	33.6
88	19.2	15.3	22.9

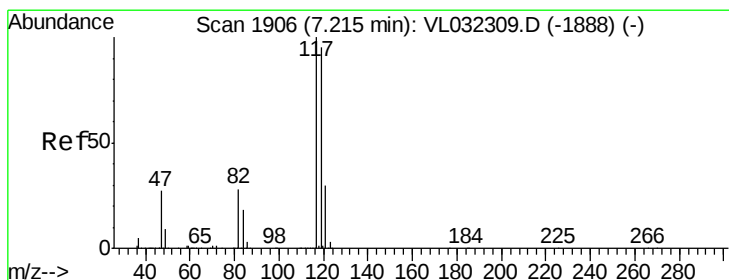
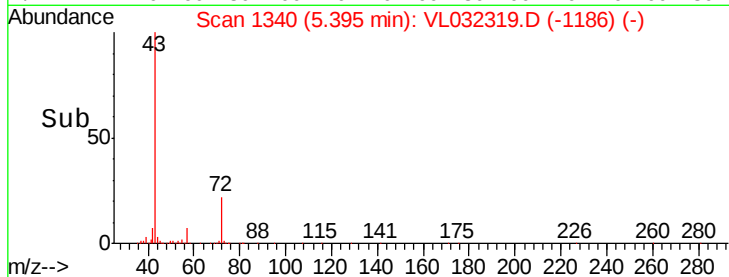
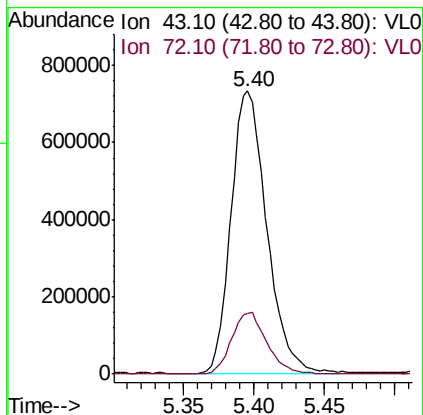
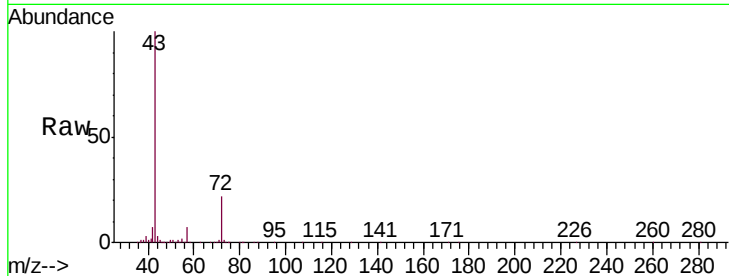




#34
2-Butanone
Concen: 5.531 ppbv
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

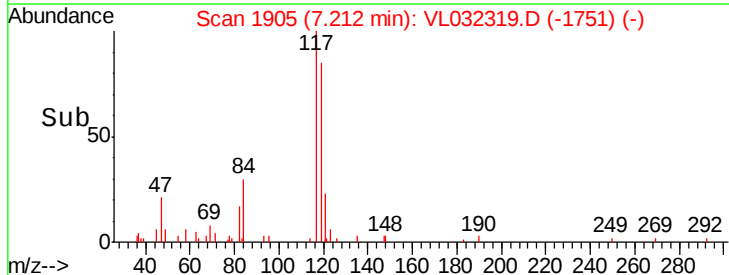
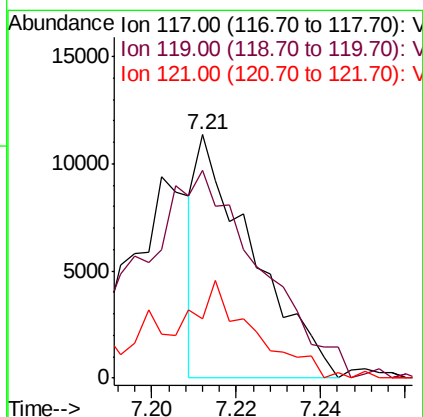
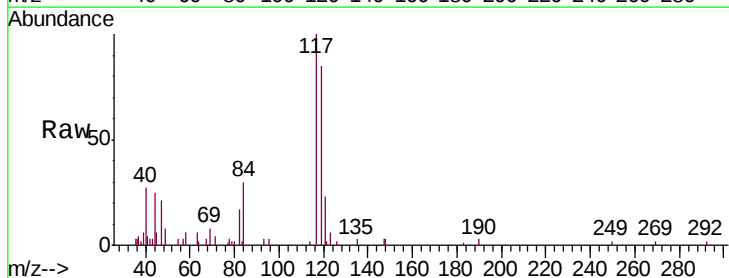
Instrument :
MSVOA_L
ClientSampleId :

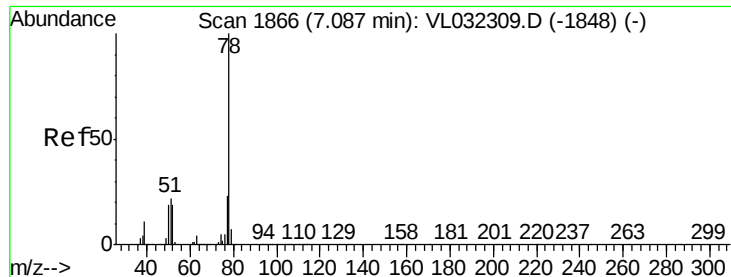
Tot Ion: 43 Resp: 1299948
Ion Ratio Lower Upper
43 100
72 21.6 17.4 26.2



#35
Carbon Tetrachloride
Concen: 0.051 ppbv
RT: 7.21 min Scan# 1905
Delta R.T. -0.00 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

Tgt Ion: 117 Resp: 10482
Ion Ratio Lower Upper
117 100
119 72.7 76.1 114.1#
121 22.0 24.4 36.6#





#36

Benzene

Concen: 0.164 ppbv

RT: 7.08 min Scan# 1864

Delta R.T. -0.01 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

ClientSampleId :

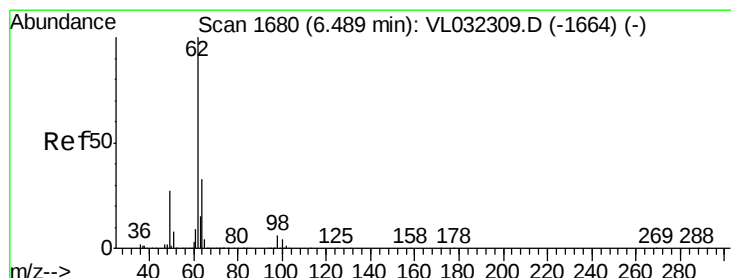
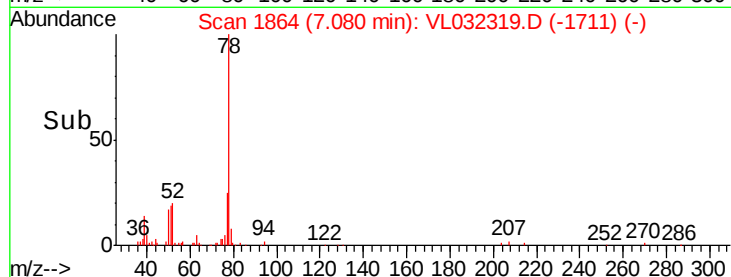
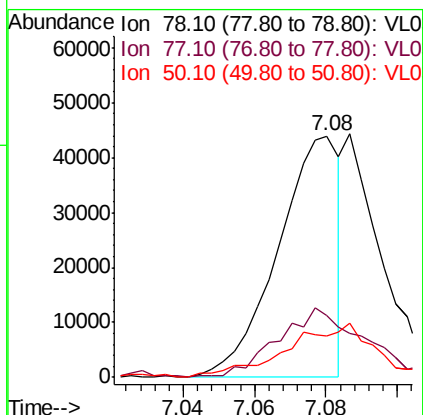
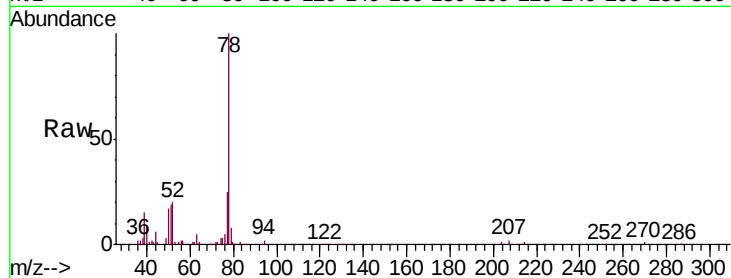
Tot Ion: 78 Resp: 52457

Ion Ratio Lower Upper

78 100

77 25.4 18.4 27.6

50 16.6 15.3 22.9



#37

1,2-Dichloroethane

Concen: 0.199 ppbv

RT: 6.49 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VL032319.D

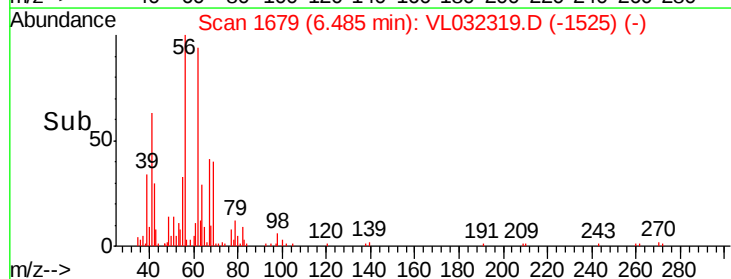
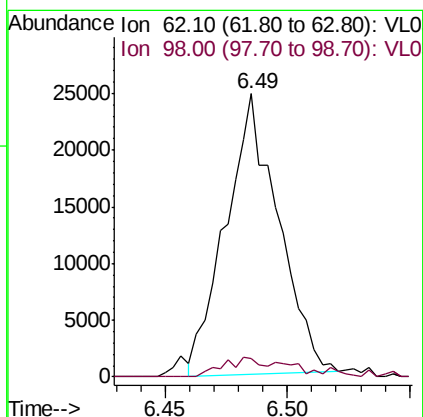
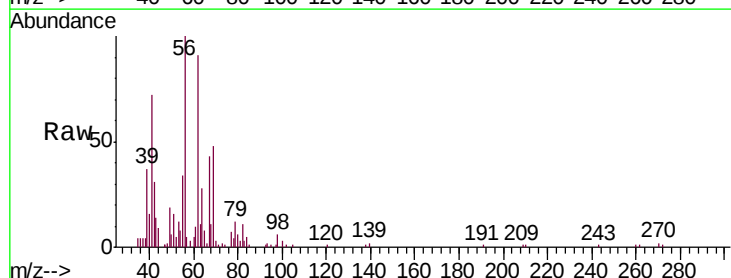
Acq: 27 Jul 2018 14:57

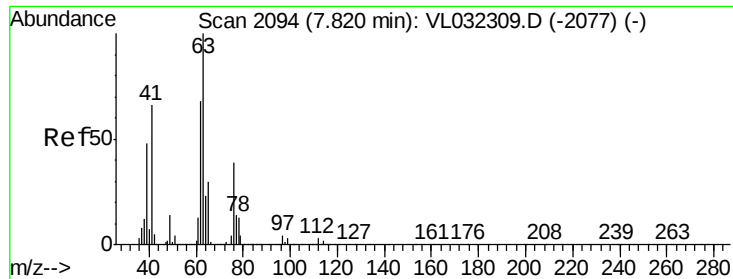
Tgt Ion: 62 Resp: 36882

Ion Ratio Lower Upper

62 100

98 8.9 5.1 7.7#

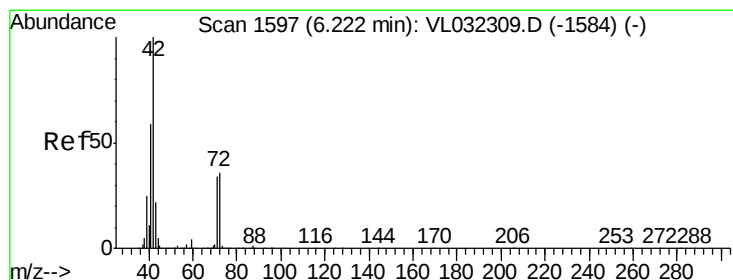
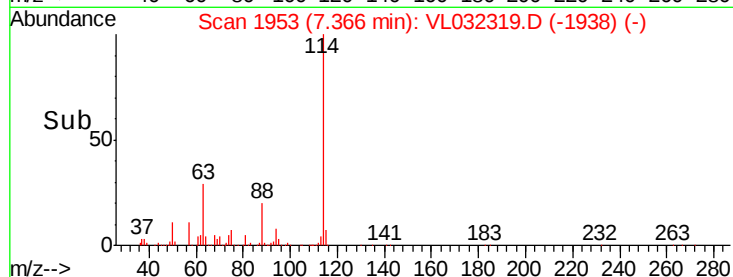
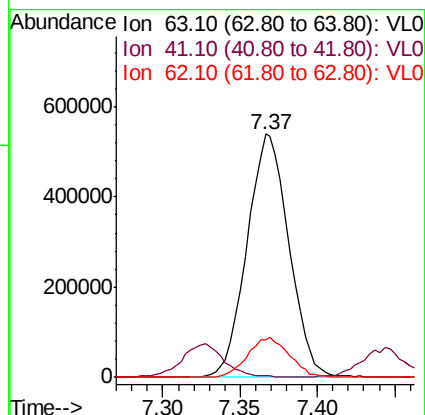
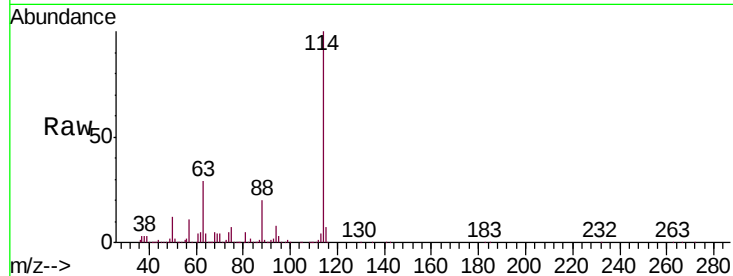




#39
 1,2-Dichloropropane
 Concen: 6.273 ppbv
 RT: 7.37 min Scan# 1953
 Delta R.T. -0.45 min
 Lab File: VL032319.D
 Acq: 27 Jul 2018 14:57

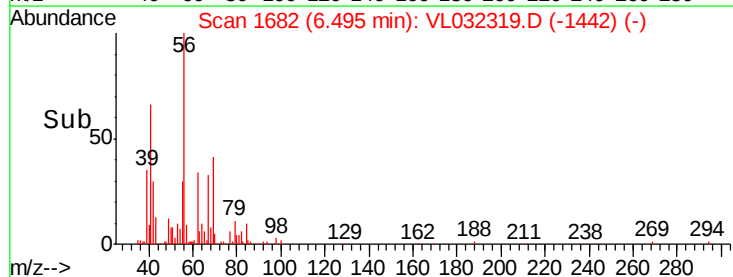
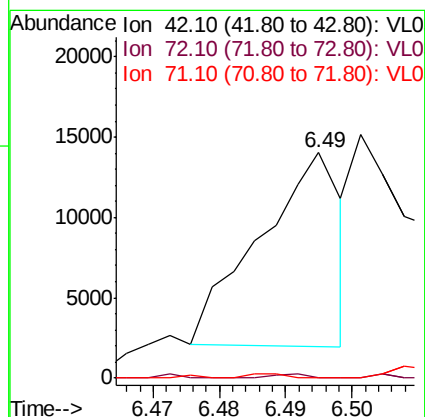
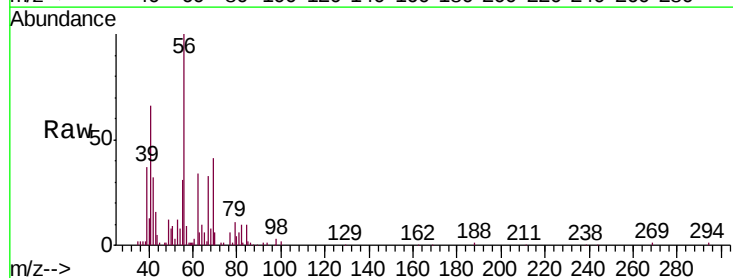
Instrument :
 MSVOA_L
 ClientSampleId :

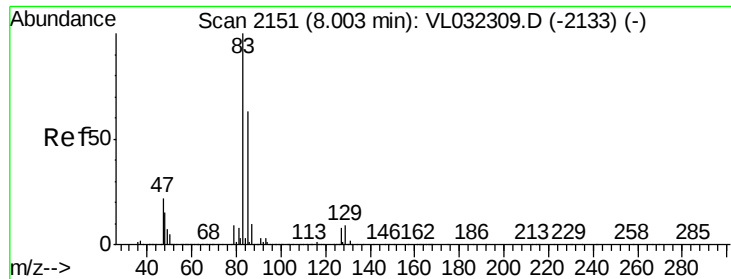
Tot Ion: 63 Resp: 1010228
 Ion Ratio Lower Upper
 63 100
 41 0.0 52.5 78.7#
 62 15.3 54.6 81.8#



#41
 Tetrahydrofuran
 Concen: 0.078 ppbv
 RT: 6.49 min Scan# 1682
 Delta R.T. 0.27 min
 Lab File: VL032319.D
 Acq: 27 Jul 2018 14:57

Tgt Ion: 42 Resp: 10369
 Ion Ratio Lower Upper
 42 100
 72 0.0 28.6 42.8#
 71 0.0 27.8 41.6#





#42

Bromodichloromethane

Concen: 0.037 ppbv

RT: 8.00 min Scan# 2150

Delta R.T. -0.00 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

ClientSampleId :

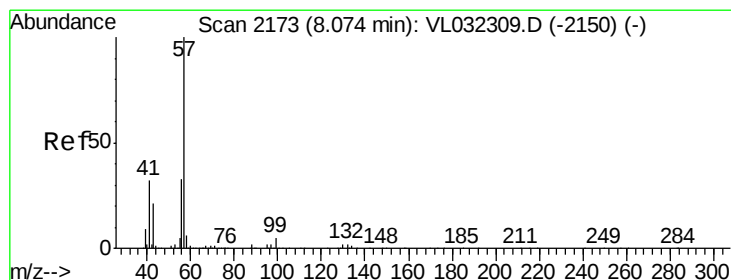
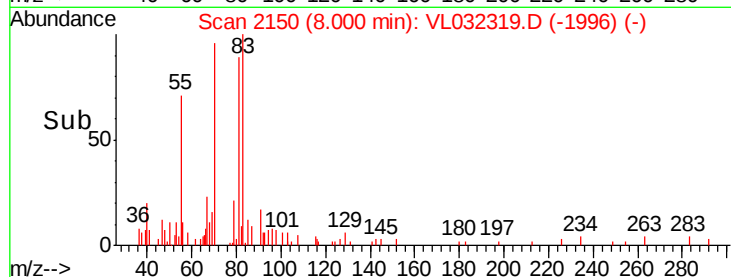
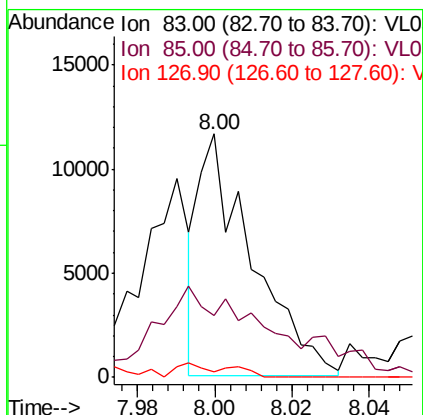
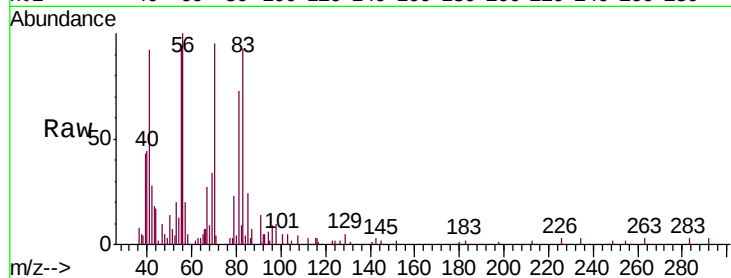
Tot Ion: 83 Resp: 11057

Ion Ratio Lower Upper

83 100

85 17.6 50.7 76.1#

127 2.5 6.0 9.0#



#44

2,2,4-Trimethylpentane

Concen: 0.162 ppbv

RT: 8.07 min Scan# 2173

Delta R.T. -0.00 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

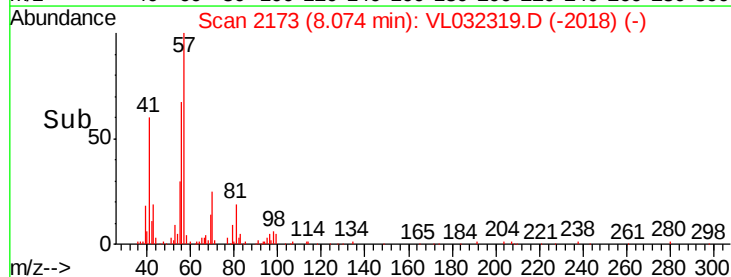
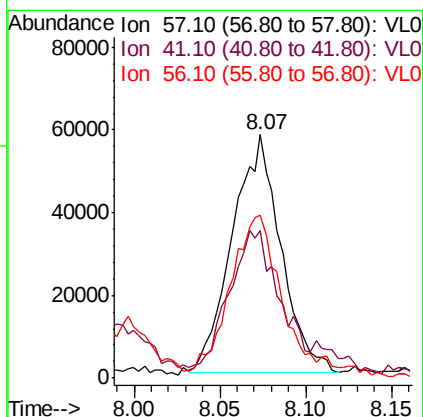
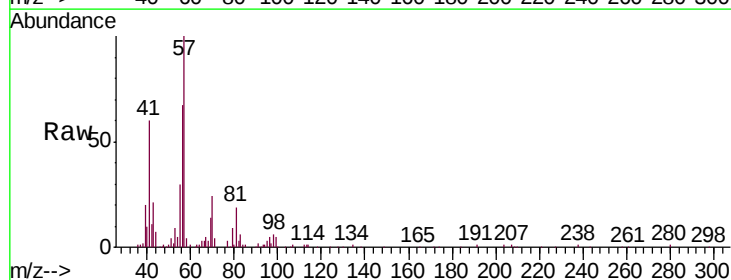
Tgt Ion: 57 Resp: 112460

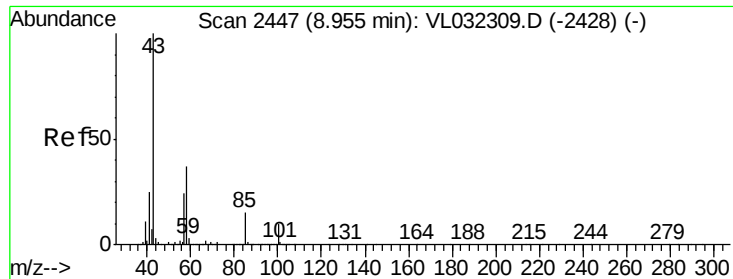
Ion Ratio Lower Upper

57 100

41 75.9 24.3 36.5#

56 77.8 25.4 38.2#

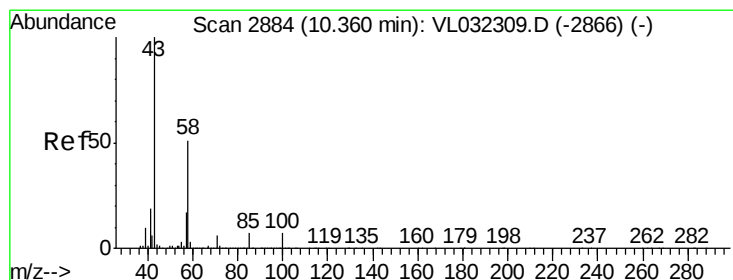
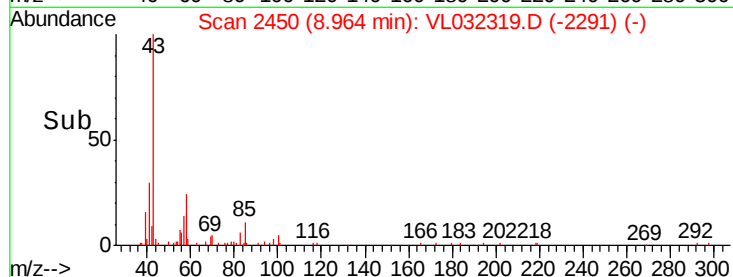
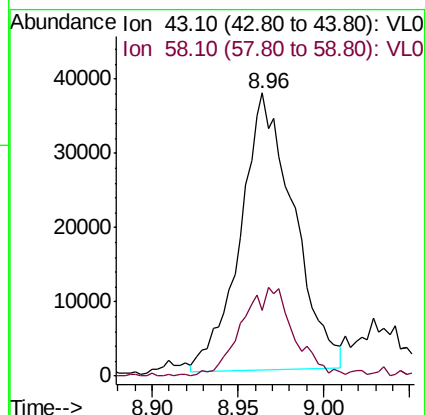
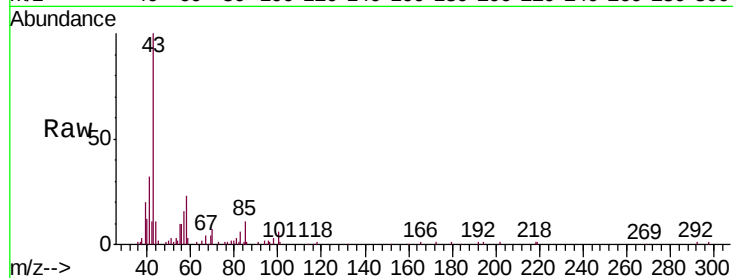




#50
4-Methyl-2-Pentanone
Concen: 0.194 ppbv
RT: 8.96 min Scan# 2450
Delta R.T. 0.01 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

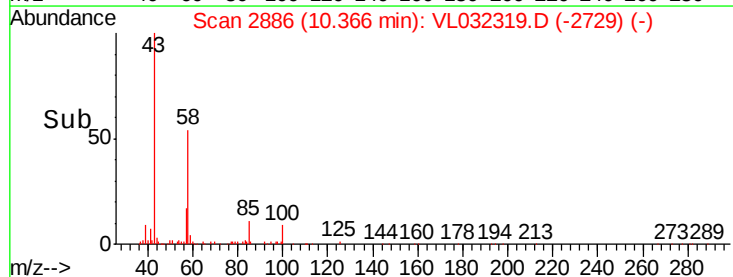
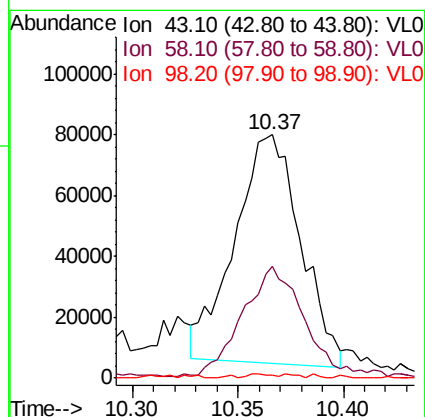
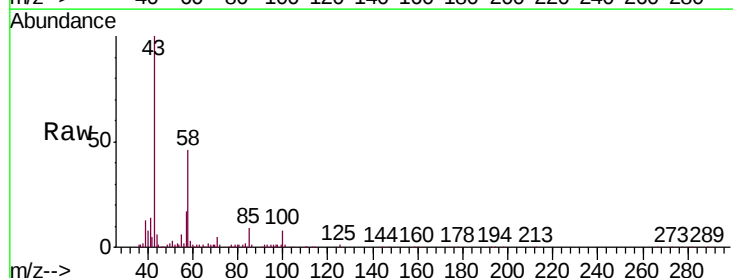
Instrument :
MSVOA_L
ClientSampleId :

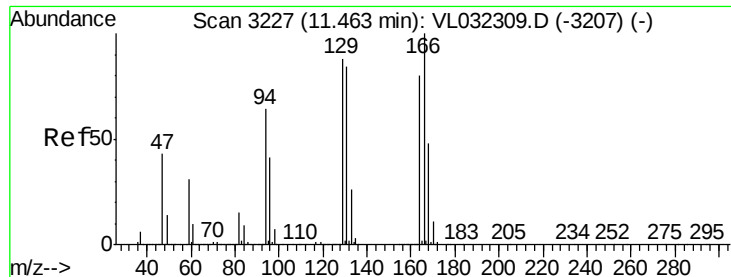
Tot Ion: 43 Resp: 80602
Ion Ratio Lower Upper
43 100
58 32.1 28.9 43.3



#51
2-Hexanone
Concen: 0.517 ppbv
RT: 10.37 min Scan# 2886
Delta R.T. 0.01 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

Tgt Ion: 43 Resp: 163251
Ion Ratio Lower Upper
43 100
58 47.7 39.1 58.7
98 1.5 0.3 0.5#





#52

Tetrachloroethene

Concen: 0.046 ppbv

RT: 11.45 min Scan# 3224

Delta R.T. -0.01 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 4943

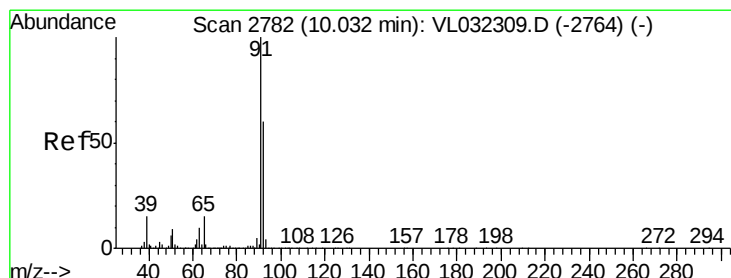
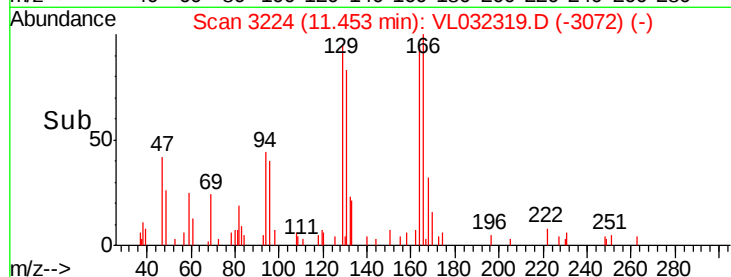
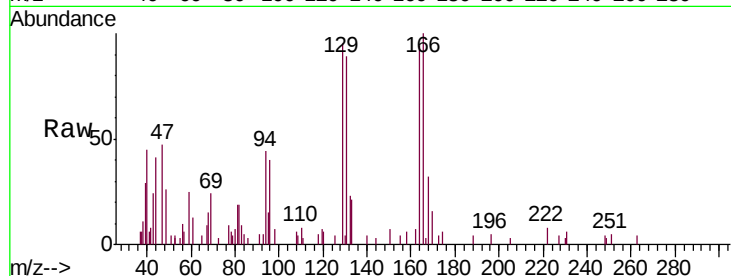
Ion Ratio Lower Upper

164 100

166 89.0 100.0 150.0#

129 93.0 87.9 131.9

131 79.6 83.8 125.8#



#53

Toluene

Concen: 3.809 ppbv

RT: 10.03 min Scan# 2781

Delta R.T. -0.00 min

Lab File: VL032319.D

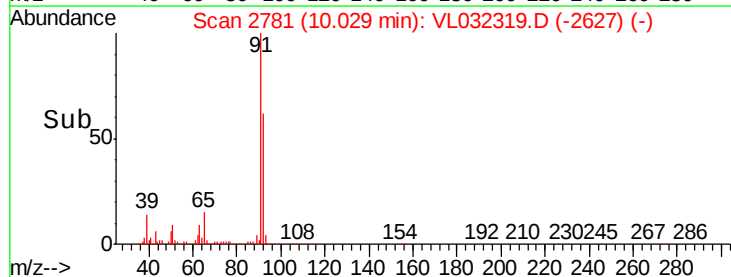
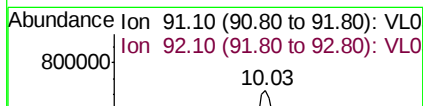
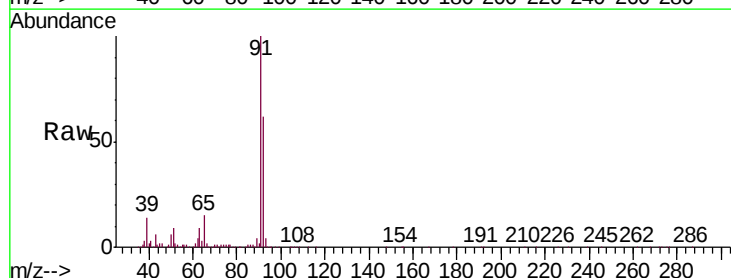
Acq: 27 Jul 2018 14:57

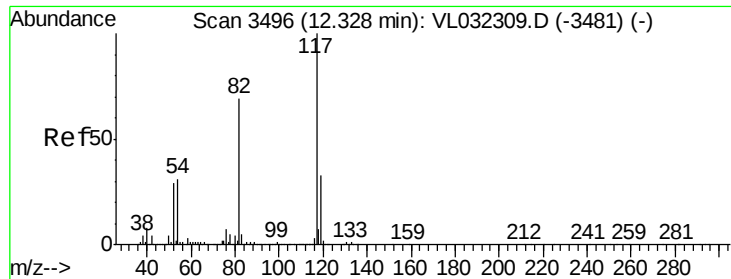
Tgt Ion: 91 Resp: 1457650

Ion Ratio Lower Upper

91 100

92 59.8 48.6 72.8

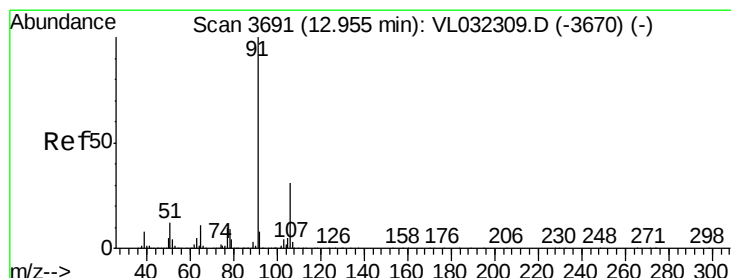
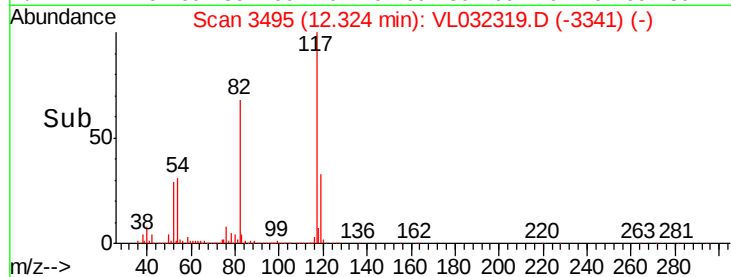
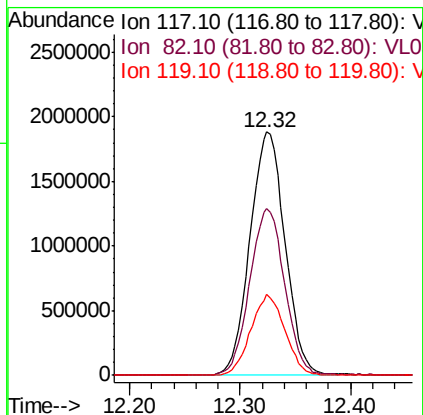
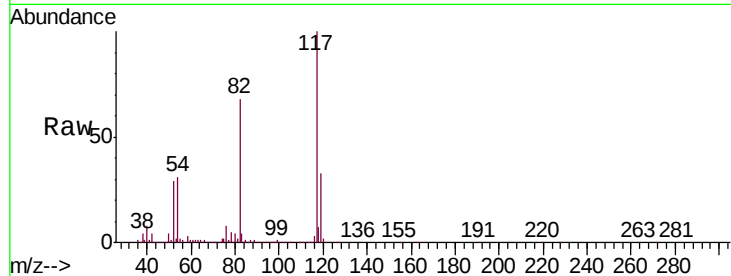




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.32 min Scan# 3495
Delta R.T. -0.00 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

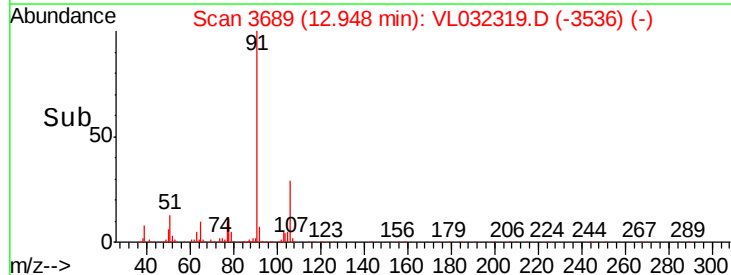
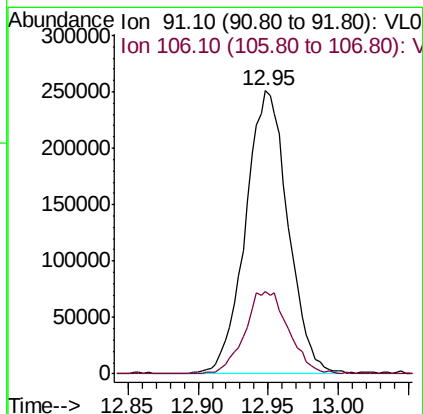
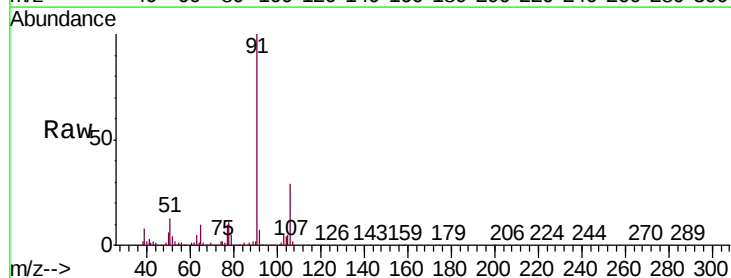
Instrument :
MSVOA_L
ClientSampleId :

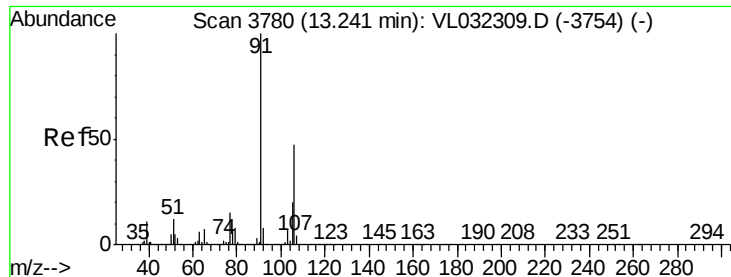
Tot Ion:117 Resp: 4148023
Ion Ratio Lower Upper
117 100
82 68.4 52.6 78.8
119 32.5 25.7 38.5



#58
Ethyl Benzene
Concen: 1.016 ppbv
RT: 12.95 min Scan# 3689
Delta R.T. -0.01 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

Tgt Ion: 91 Resp: 528270
Ion Ratio Lower Upper
91 100
106 29.2 25.0 37.4

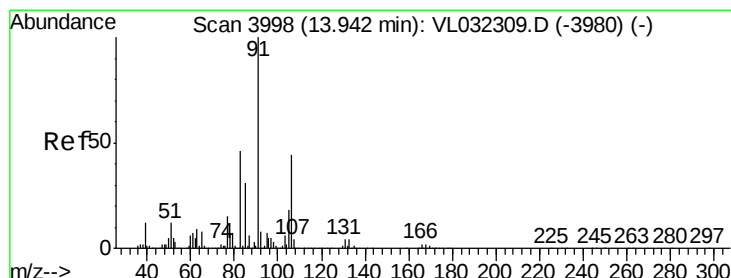
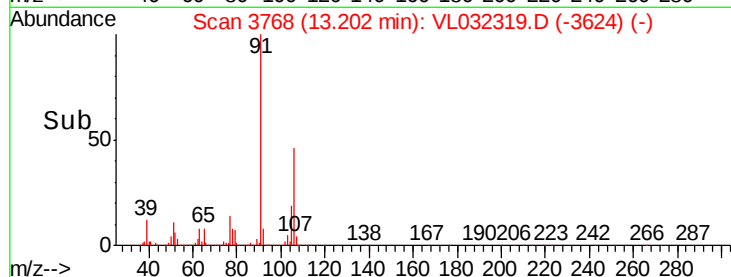
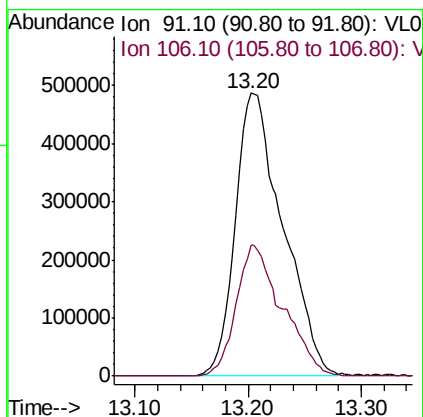
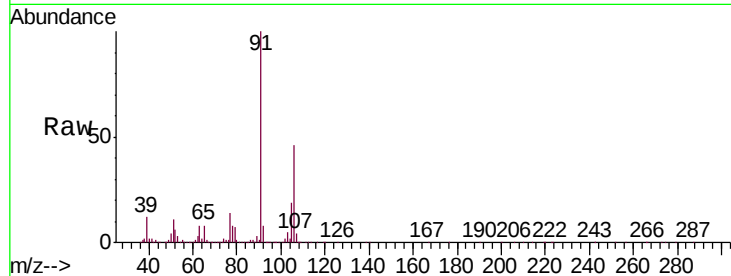




#59
m/p-Xylene
Concen: 3.210 ppbv
RT: 13.20 min Scan# 3768
Delta R.T. -0.04 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

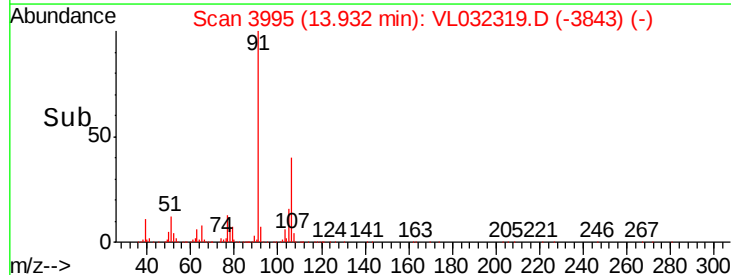
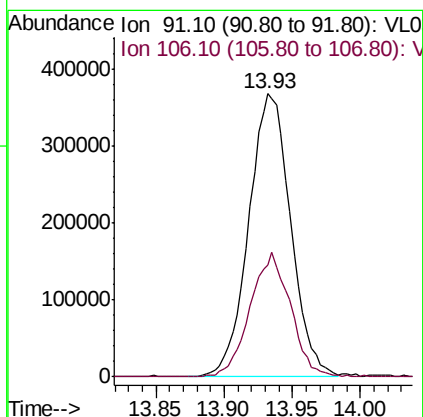
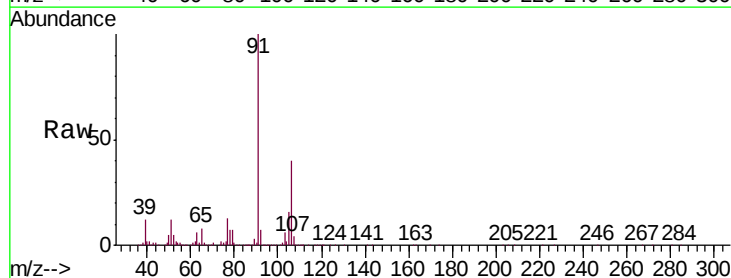
Instrument :
MSVOA_L
ClientSampleId :

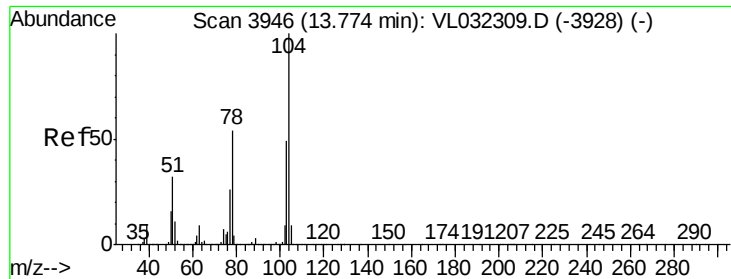
Tot Ion: 91 Resp: 1421168
Ion Ratio Lower Upper
91 100
106 45.0 36.4 54.6



#60
o-Xylene
Concen: 1.798 ppbv
RT: 13.93 min Scan# 3995
Delta R.T. -0.01 min
Lab File: VL032319.D
Acq: 27 Jul 2018 14:57

Tgt Ion: 91 Resp: 780355
Ion Ratio Lower Upper
91 100
106 42.9 22.4 67.0





#61

Stvrene

Concen: 1.401 ppbv

RT: 13.77 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

ClientSampleId :

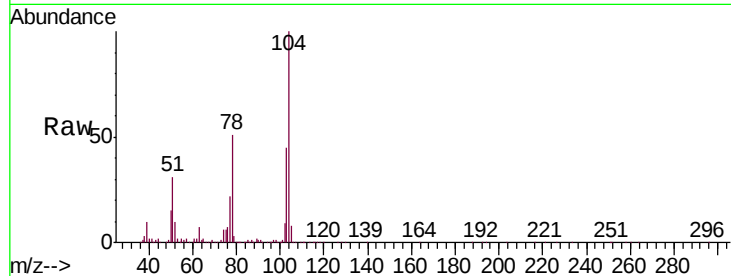
Tot Ion:104 Resp: 447463

Ion Ratio Lower Upper

104 100

78 52.7 42.6 63.8

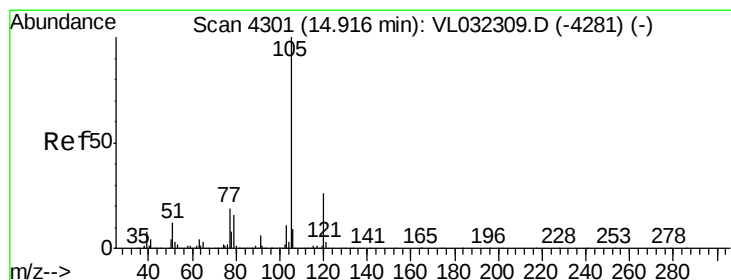
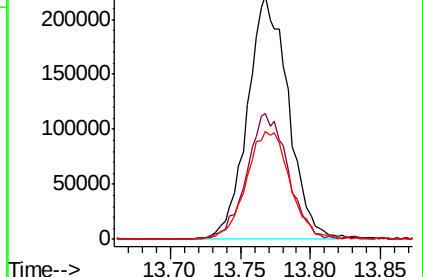
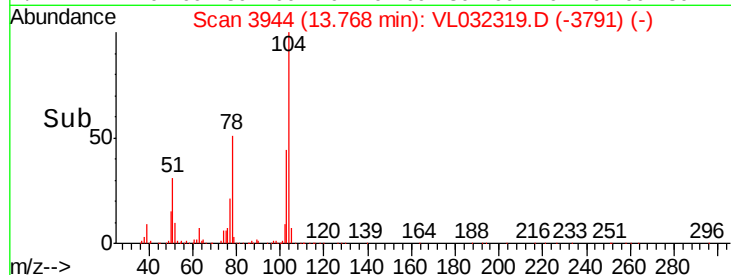
103 47.6 38.0 57.0



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: 0.186 ppbv

RT: 14.91 min Scan# 4299

Delta R.T. -0.01 min

Lab File: VL032319.D

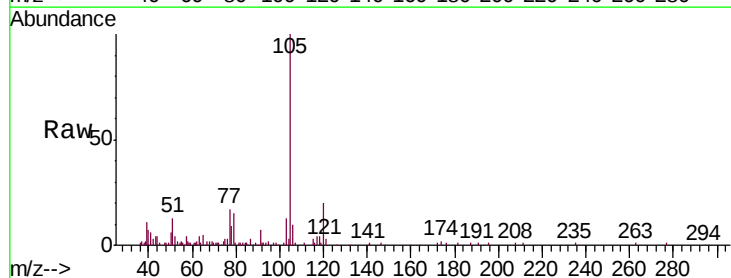
Acq: 27 Jul 2018 14:57

Tgt Ion:105 Resp: 115013

Ion Ratio Lower Upper

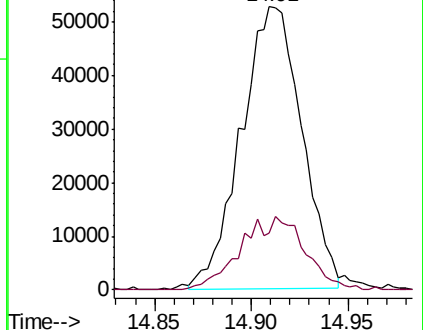
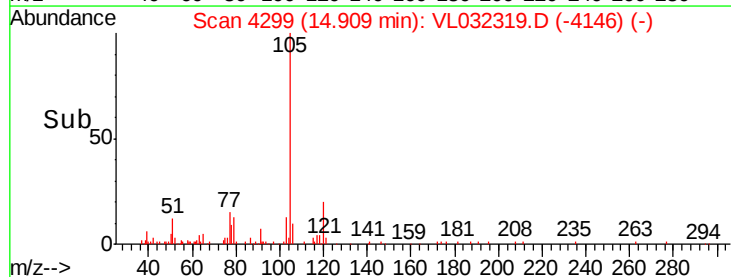
105 100

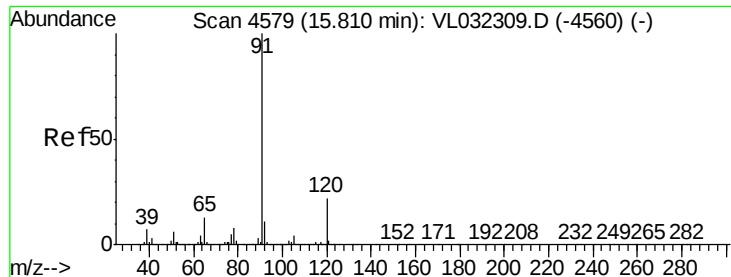
120 27.5 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.040 ppbv

RT: 15.81 min Scan# 4578

Delta R.T. -0.00 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

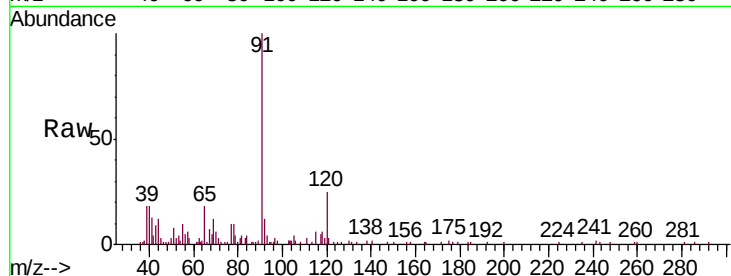
ClientSampleId :

Tot Ion:120 Resp: 6417

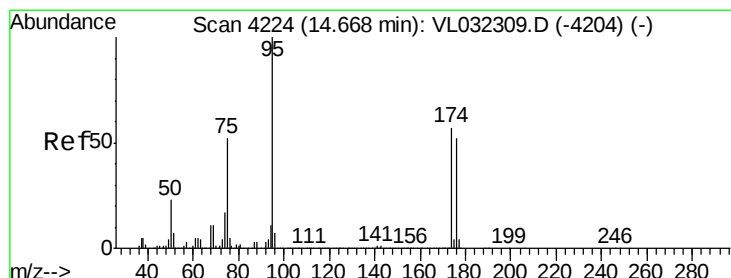
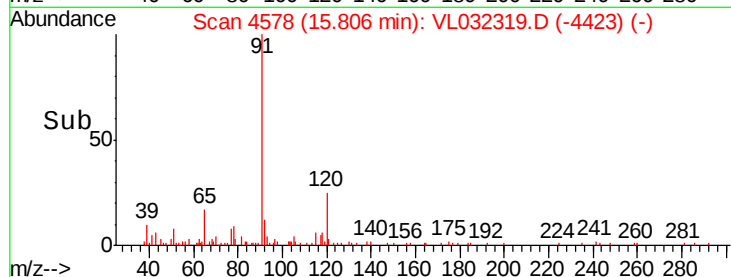
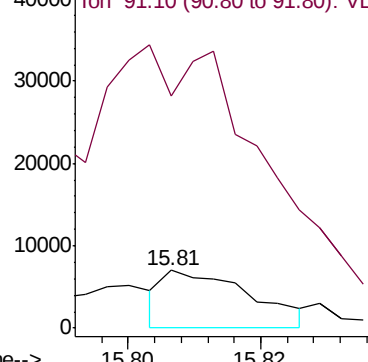
Ion Ratio Lower Upper

120 100

91 1247.8 381.8 572.8#



Abundance Ion 120.20 (119.90 to 120.90): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.570 ppbv

RT: 14.66 min Scan# 4222

Delta R.T. -0.01 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

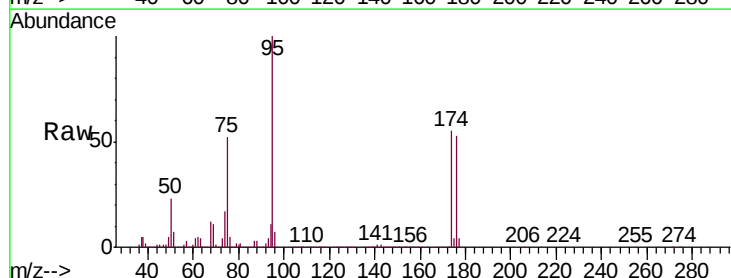
Tgt Ion: 95 Resp: 3081169

Ion Ratio Lower Upper

95 100

174 55.9 45.5 68.3

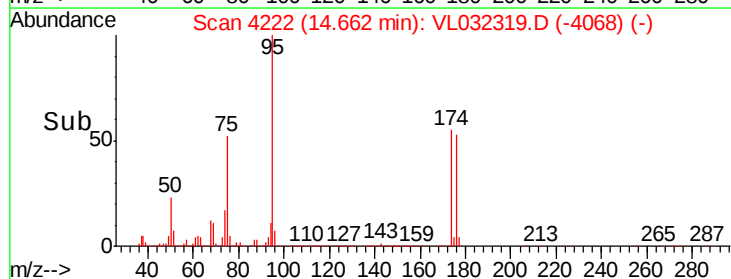
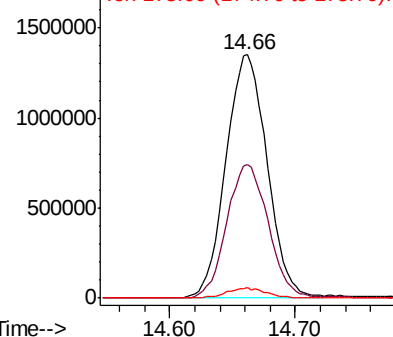
175 3.9 3.3 4.9

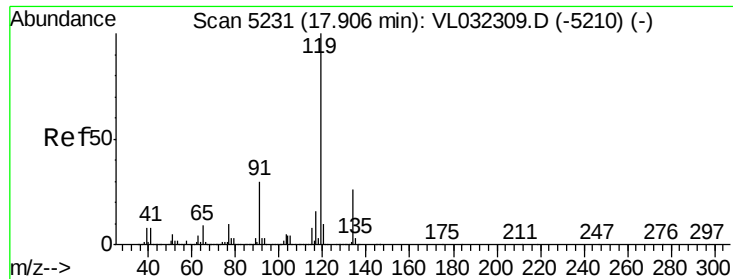


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): VL0

Ion 175.00 (174.70 to 175.70): VL0





#69

p-Isopropyltoluene

Concen: 0.146 ppbv

RT: 17.90 min Scan# 5230

Delta R.T. -0.00 min

Lab File: VL032319.D

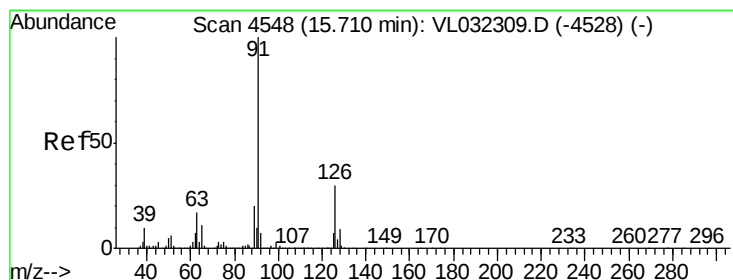
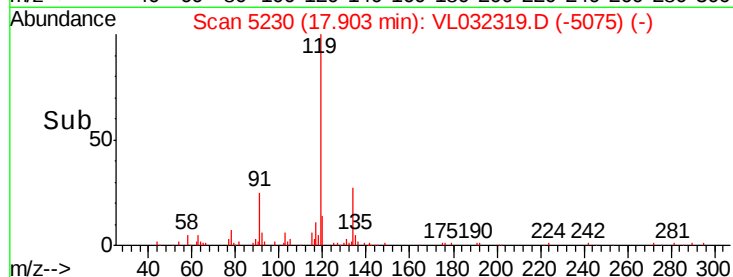
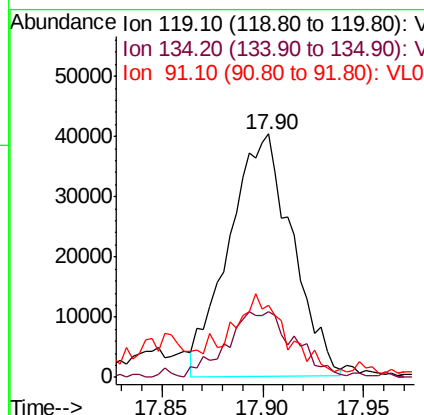
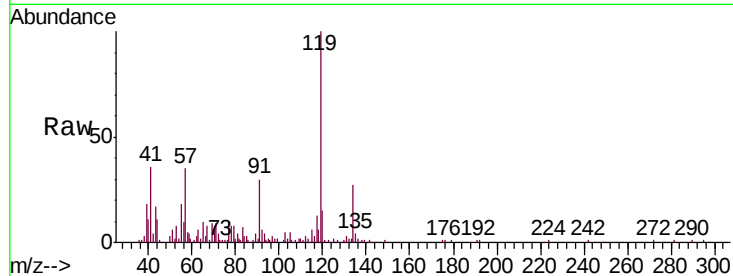
Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	119	Resp:	88126
Ion	Ratio	Lower	Upper
119	100		
134	30.2	20.3	30.5
91	34.5	23.8	35.6



#71

2-Chlorotoluene

Concen: 0.086 ppbv

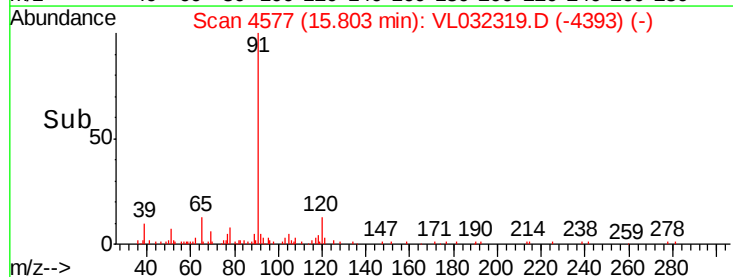
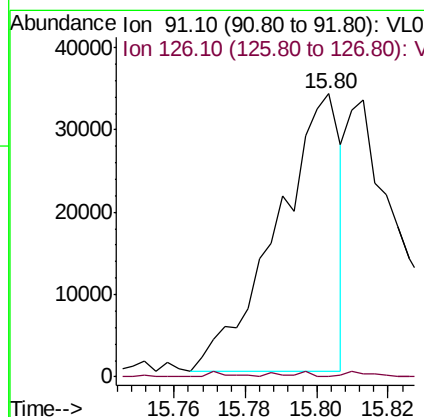
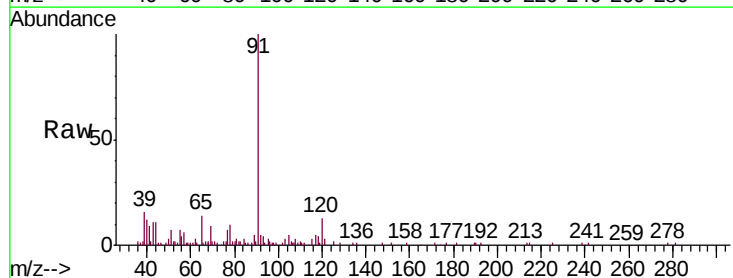
RT: 15.80 min Scan# 4577

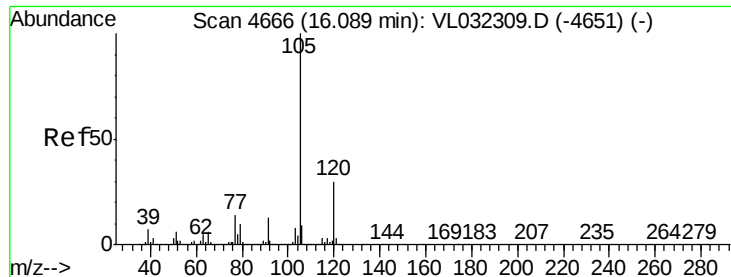
Delta R.T. 0.09 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Tgt Ion:	91	Resp:	41742
Ion	Ratio	Lower	Upper
91	100		
126	0.6	11.8	47.0#





#72

4-Ethyltoluene

Concen: 0.116 ppbv

RT: 16.08 min Scan# 4663

Delta R.T. -0.01 min

Lab File: VL032319.D

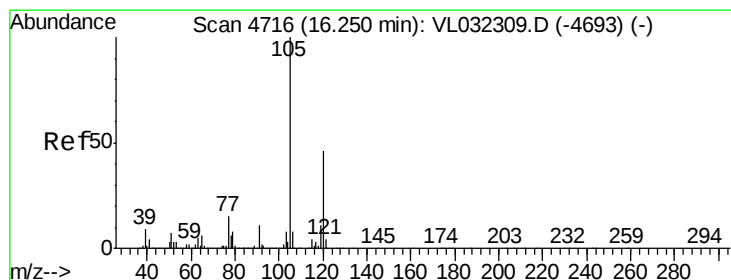
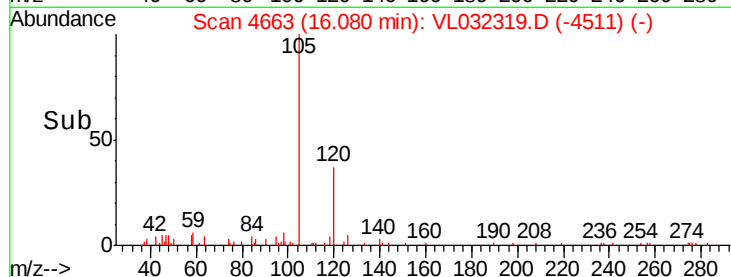
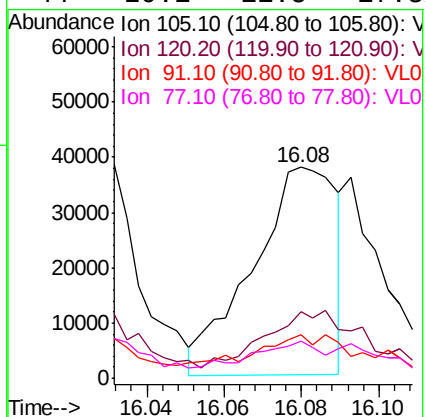
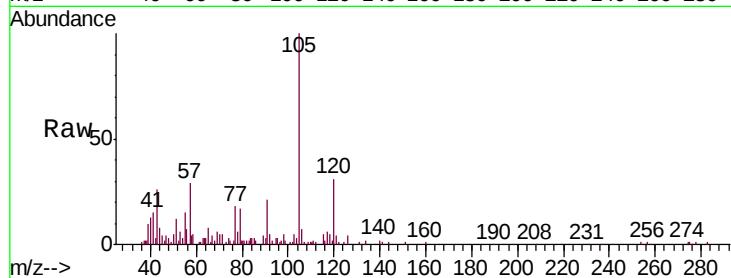
Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	56413
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.1	34.7#
91	27.3	10.0	15.0#
77	29.1	11.5	17.3#



#73

1,3,5-Trimethylbenzene

Concen: 0.188 ppbv

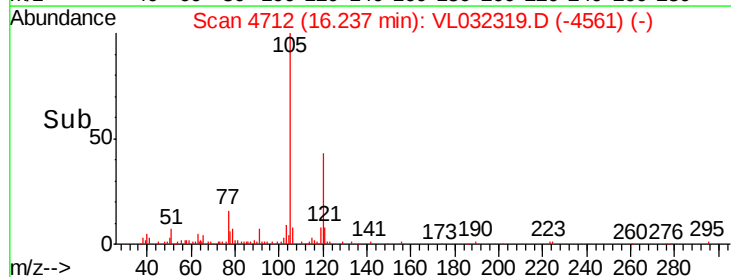
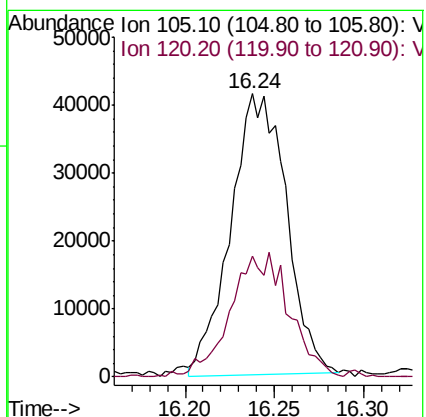
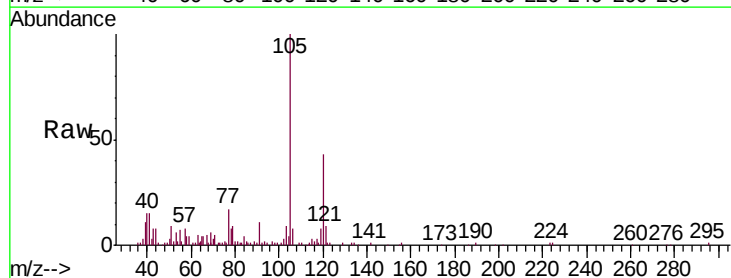
RT: 16.24 min Scan# 4712

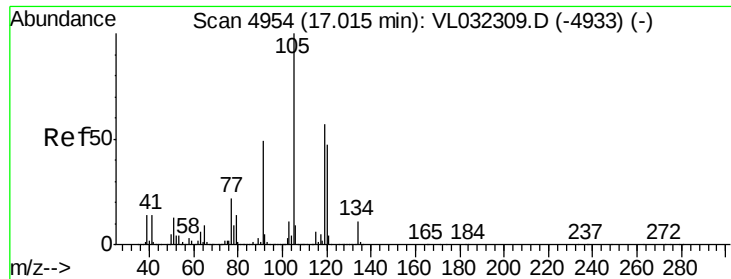
Delta R.T. -0.01 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Tgt Ion:	105	Resp:	90040
Ion	Ratio	Lower	Upper
105	100		
120	42.6	36.5	54.7





#74

1,2,4-Trimethylbenzene

Concen: 0.254 ppbv

RT: 17.01 min Scan# 4953

Delta R.T. -0.00 min

Lab File: VL032319.D

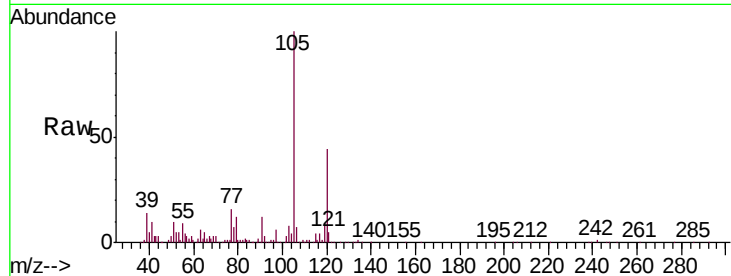
Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	128043
Ion	Ratio	Lower	Upper
105	100		
120	43.7	37.8	56.6
91	10.9	39.4	59.0#
77	14.8	17.6	26.4#

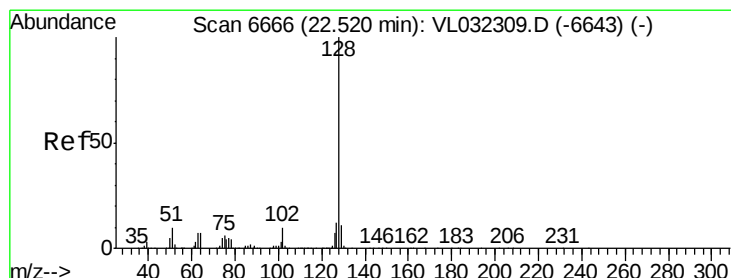
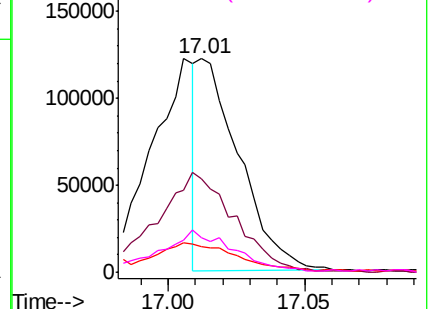
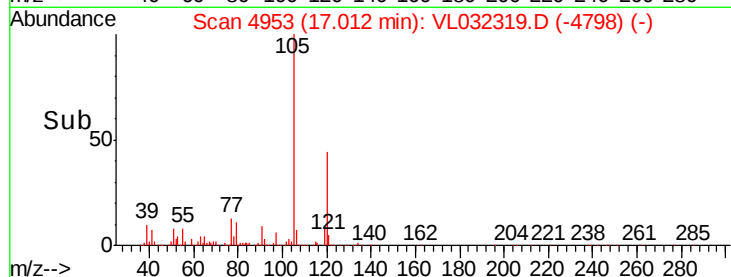


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.035 ppbv

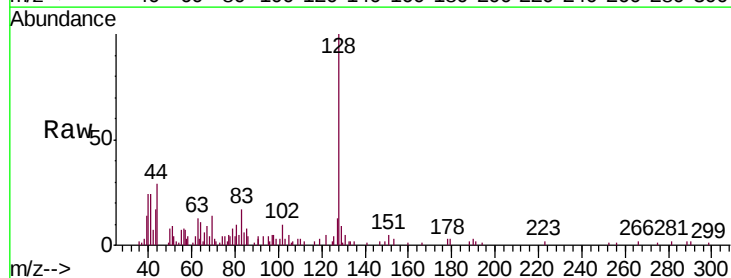
RT: 22.51 min Scan# 6662

Delta R.T. -0.01 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

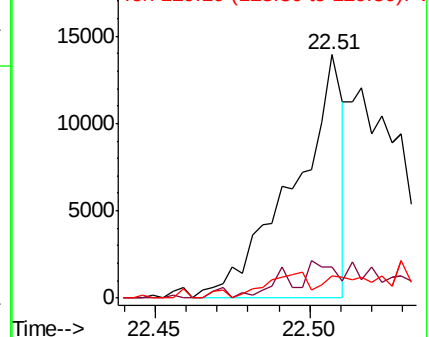
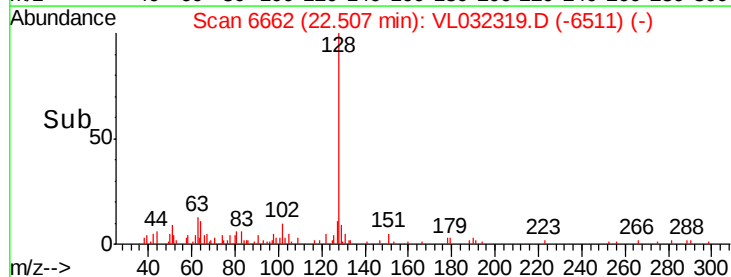
Tgt Ion:	128	Resp:	15375
Ion	Ratio	Lower	Upper
128	100		
127	12.9	9.9	14.9
129	9.3	8.8	13.2

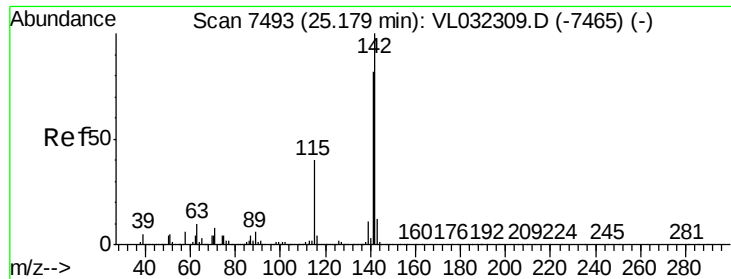


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene,2-methyl-

Concen: 0.046 ppbv

RT: 25.18 min Scan# 7494

Delta R.T. 0.00 min

Lab File: VL032319.D

Acq: 27 Jul 2018 14:57

Instrument :

MSVOA_L

ClientSampleId :

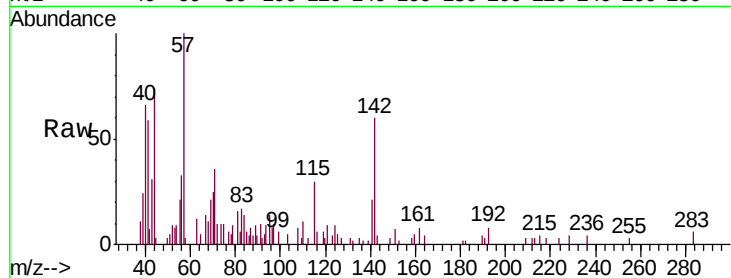
Tot Ion:142 Resp: 7951

Ion Ratio Lower Upper

142 100

141 84.2 66.7 100.1

115 49.0 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

