

Data File : VL033778.D

Acq On : 23 May 2019 18:07

Operator : SY/AP

Sample : K2929-05

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

Quant Time: May 24 04:26:10 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019

QLast Update : Fri May 17 08:15:41 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	893044	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2332098	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2412515	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1907974	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	35604	0.189	ppbv	98
3) Chlorodifluoromethane	3.01	51	33115	0.324	ppbv	92
4) Chloromethane	3.17	50	13197	0.226	ppbv	95
6) Bromomethane	3.51	94	764	0.021	ppbv #	54
7) Chloroethane	3.60	64	384	0.018	ppbv #	41
8) Dichlorotetrafluoroethane	3.22	85	2713	0.018	ppbv	84
9) Propene	3.03	41	2258160	51.900	ppbv	93
10) Heptane	8.24	43	1003620	8.146	ppbv	99
11) Trichlorofluoromethane	4.00	101	80806	0.450	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	9779	0.078	ppbv	99
13) Ethanol	3.65	45	439993	31.287	ppbv	99
15) Acetone	3.89	43	8501229	68.611	ppbv #	85
16) 1,3-Butadiene	3.34	39	1354775	27.457	ppbv #	29
17) tert-Butyl alcohol	4.36	59	310343	3.097	ppbv #	94
19) Isopropyl Alcohol	4.03	45	119954	1.501	ppbv #	94
20) Methylene Chloride	4.41	84	5918	0.124	ppbv #	79
21) Allyl Chloride	4.46	41	42862	0.555	ppbv #	1
23) Vinyl Acetate	5.14	43	221314	1.355	ppbv #	1
24) 1,1-Dichloroethane	5.13	63	6405	0.052	ppbv #	90
25) Ethyl Acetate	5.77	43	898826	4.129	ppbv #	91
26) Hexane	5.78	57	761213	8.135	ppbv #	56
27) Carbon Disulfide	4.62	76	610285	4.754	ppbv	99
29) Chloroform	5.85	83	124814	0.724	ppbv	93
30) Cyclohexane	7.25	84	53723	0.683	ppbv #	1
31) cis-1,2-Dichloroethene	5.76	61	47726	0.514	ppbv #	27
32) 1,1,1-Trichloroethane	6.62	97	11743	0.068	ppbv #	19
34) 2-Butanone	5.32	43	1098572	7.600	ppbv	98
35) Carbon Tetrachloride	7.13	117	4632	0.025	ppbv #	81
36) Benzene	7.00	78	1050854	4.954	ppbv	97
38) Trichloroethene	7.95	130	2038	0.026	ppbv #	33
39) 1,2-Dichloropropane	7.29	63	564521	7.138	ppbv #	23
41) Tetrahydrofuran	6.15	42	34254	0.423	ppbv	91
42) Bromodichloromethane	7.92	83	10915	0.058	ppbv #	34
43) Methyl Methacrylate	8.13	69	1305	0.017	ppbv #	1
44) 2,2,4-Trimethylpentane	7.98	57	486517	1.357	ppbv #	76
50) 4-Methyl-2-Pentanone	8.87	43	299940	1.349	ppbv	98
51) 2-Hexanone	10.26	43	246290	1.419	ppbv #	76
52) Tetrachloroethene	11.36	164	8561	0.115	ppbv #	81
53) Toluene	9.94	91	9422938	41.182	ppbv	96
58) Ethyl Benzene	12.86	91	2282266	7.144	ppbv	98
59) m/p-Xylene	13.12	91	6646172	23.798	ppbv	96

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Misc : 400ml/MSVOA_L
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Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55

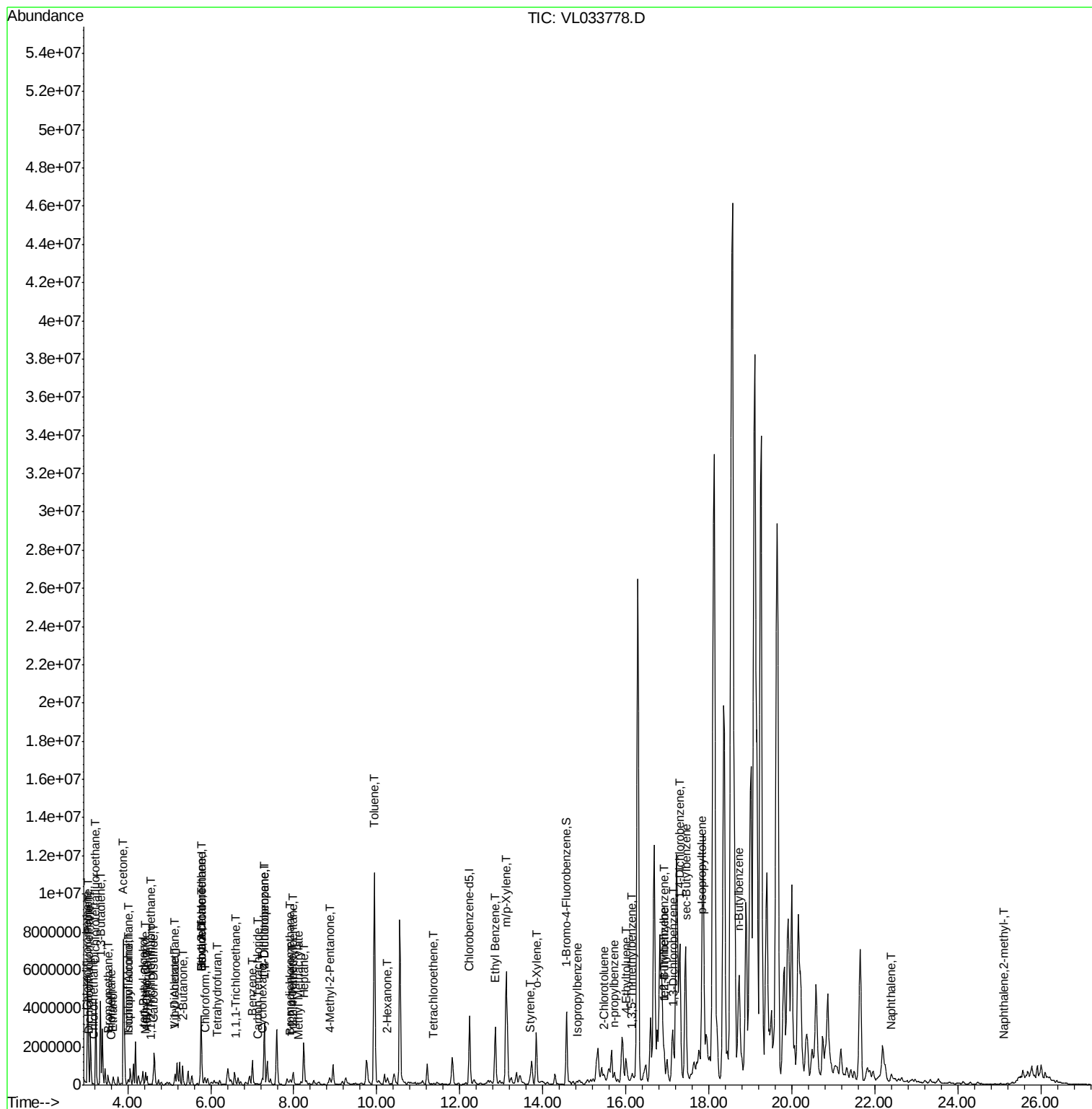
Quant Time: May 24 04:26:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

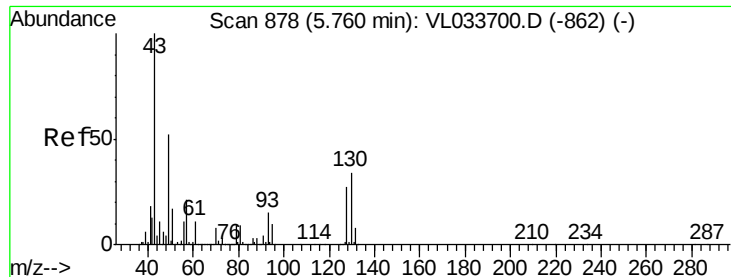
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) o-Xylene	13.84	91	2120872	7.533	ppbv	97
61) Styrene	13.68	104	47600	0.251	ppbv #	87
62) Isopropylbenzene	14.82	105	54700	0.144	ppbv #	34
64) n-propylbenzene	15.72	120	47316	0.482	ppbv #	1
65) tert-Butylbenzene	16.92	119	139785	0.404	ppbv #	68
67) sec-Butylbenzene	17.46	105	21292	0.044	ppbv #	75
69) p-Isopropyltoluene	17.82	119	9000	0.022	ppbv #	9
70) n-Butylbenzene	18.72	91	53727	0.125	ppbv #	33
71) 2-Chlorotoluene	15.47	91	77273	0.275	ppbv	70
72) 4-Ethyltoluene	15.99	105	539640	1.676	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	360865	1.149	ppbv	95
74) 1,2,4-Trimethylbenzene	16.92	105	1289768	3.773	ppbv #	74
75) 1,3-Dichlorobenzene	17.16	146	5286	0.025	ppbv #	1
76) 1,4-Dichlorobenzene	17.30	146	12925	0.065	ppbv #	21
79) Naphthalene	22.41	128	68905	0.217	ppbv	97
80) Naphthalene,2-methyl-	25.11	142	5181	0.043	ppbv #	66

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033778.D

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Instrument :

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ClientSampleId :

BPS1-SG-3003-55

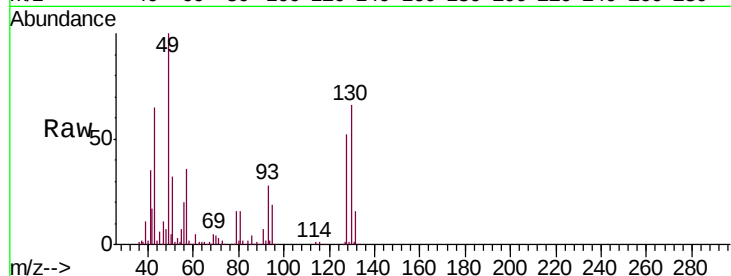
Tgt Ion: 49 Resp: 893044

Ion Ratio Lower Upper

49 100

128 52.0 25.2 75.6

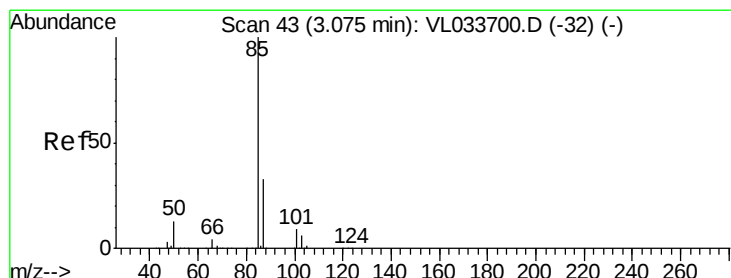
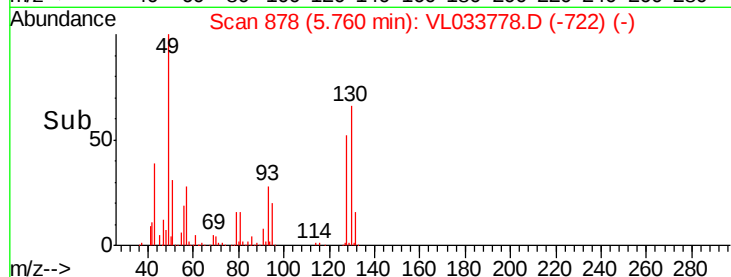
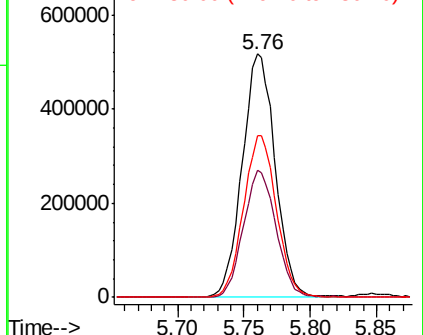
130 66.5 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.189 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033778.D

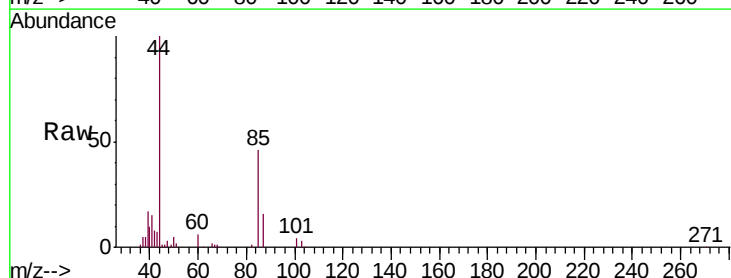
Acq: 23 May 2019 18:07

Tgt Ion: 85 Resp: 35604

Ion Ratio Lower Upper

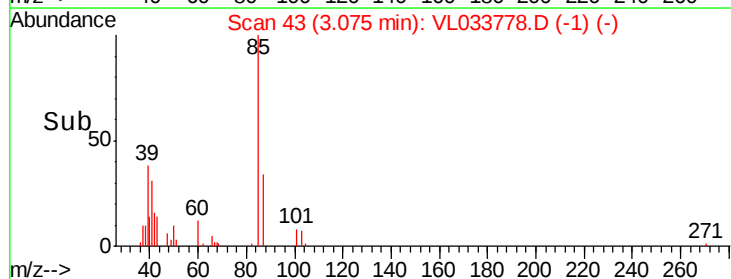
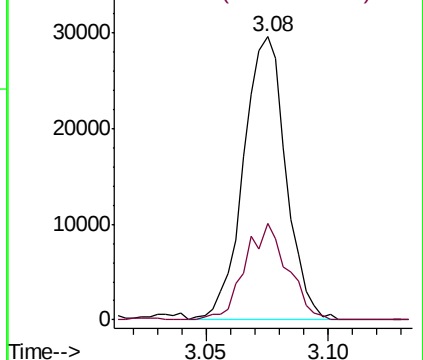
85 100

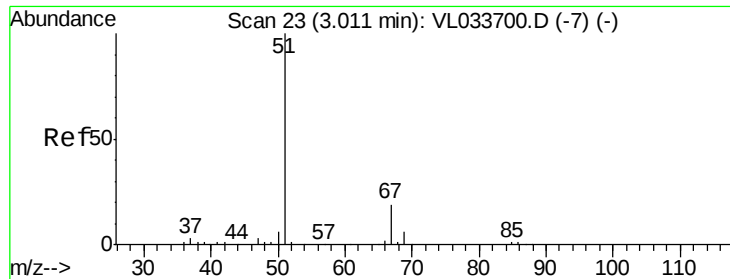
87 34.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

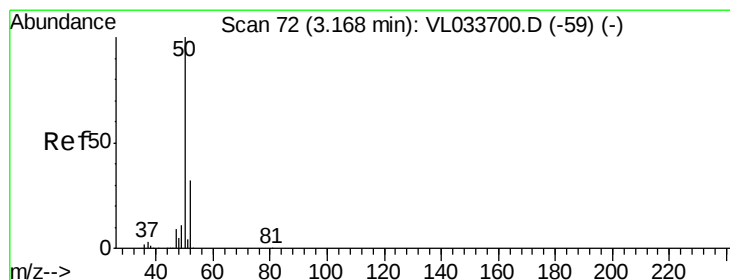
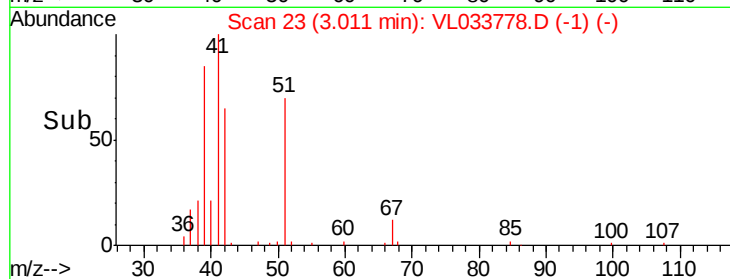
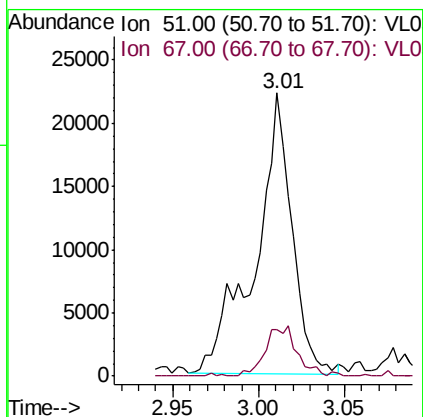
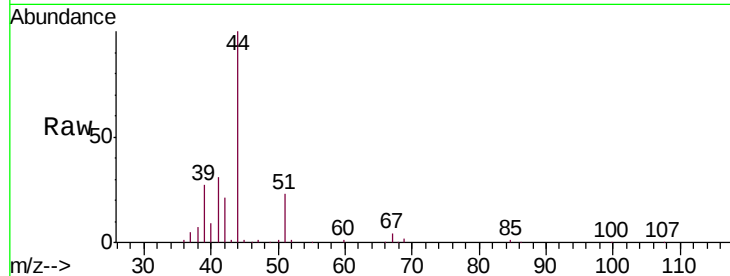




#3
 Chlorodifluoromethane
 Concen: 0.324 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VL033778.D
 Acq: 23 May 2019 18:07

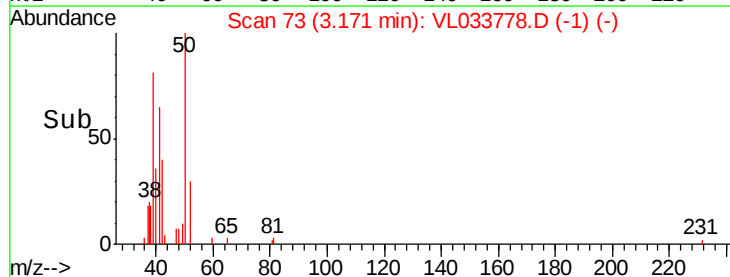
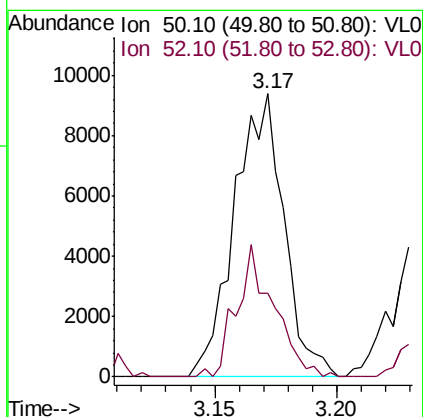
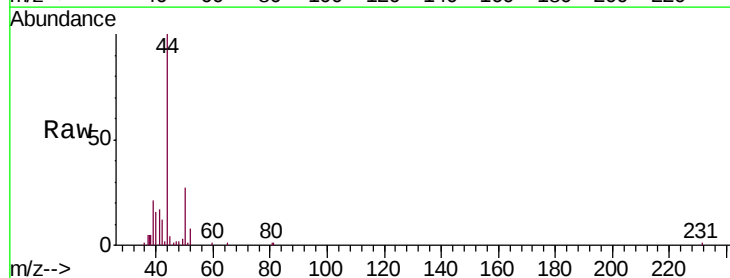
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3003-55

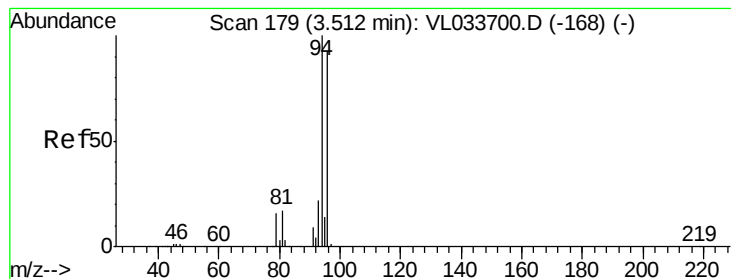
Tgt Ion: 51 Resp: 33115
 Ion Ratio Lower Upper
 51 100
 67 15.7 15.6 23.4



#4
 Chloromethane
 Concen: 0.226 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. 0.00 min
 Lab File: VL033778.D
 Acq: 23 May 2019 18:07

Tgt Ion: 50 Resp: 13197
 Ion Ratio Lower Upper
 50 100
 52 29.4 25.7 38.5





#6

Bromomethane

Concen: 0.021 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

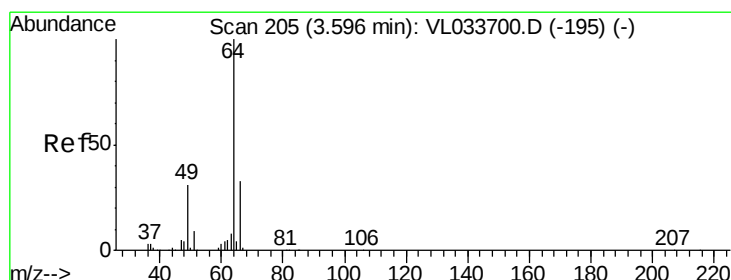
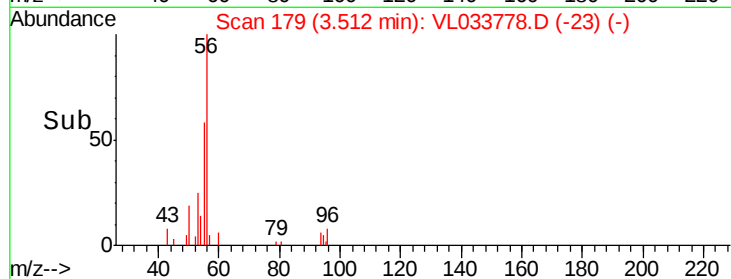
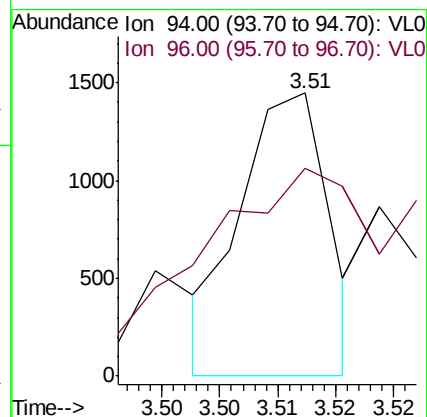
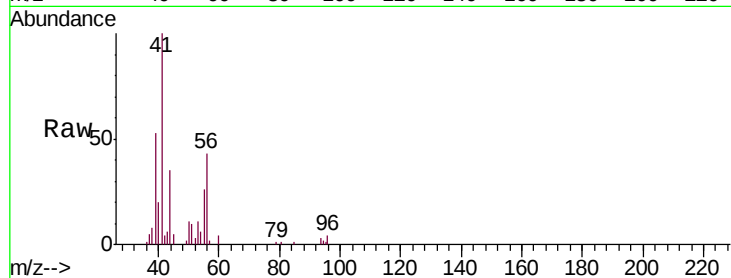
BPS1-SG-3003-55

Tgt Ion: 94 Resp: 764

Ion Ratio Lower Upper

94 100

96 47.8 73.6 110.4#



#7

Chloroethane

Concen: 0.018 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033778.D

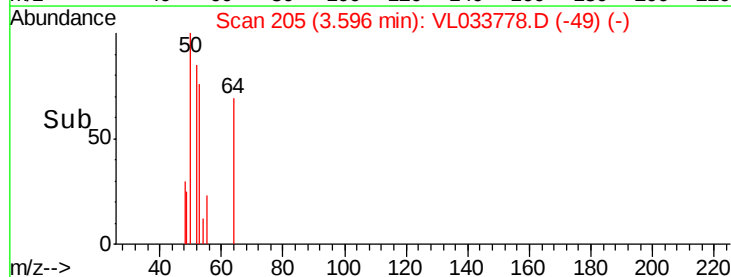
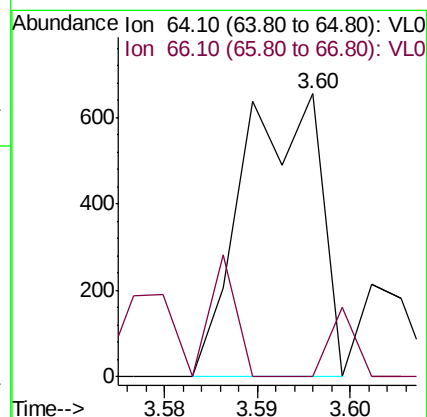
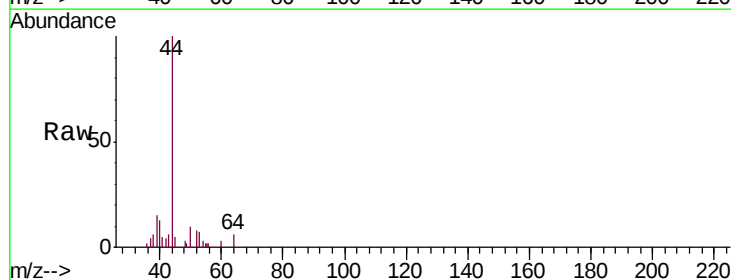
Acq: 23 May 2019 18:07

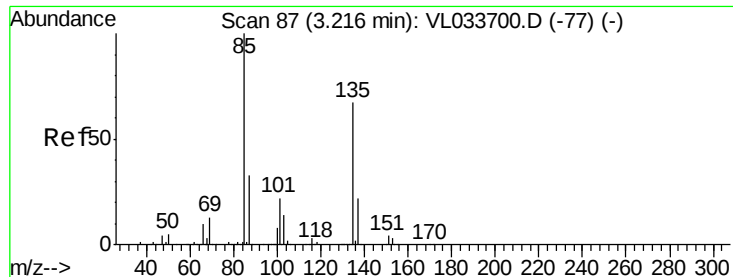
Tgt Ion: 64 Resp: 384

Ion Ratio Lower Upper

64 100

66 0.0 26.6 40.0#





#8

Dichlorotetrafluoroethane

Concen: 0.018 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

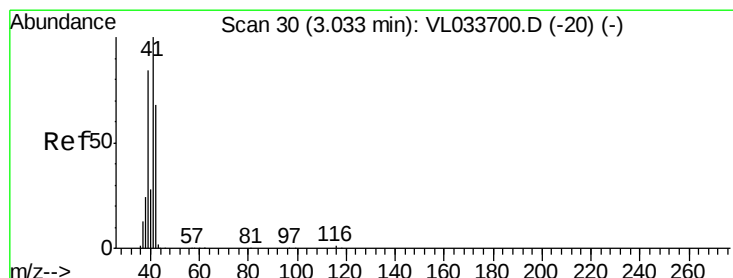
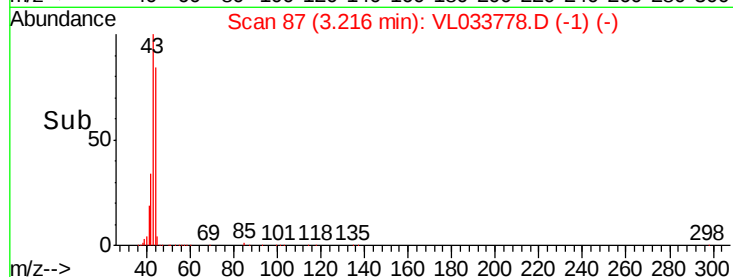
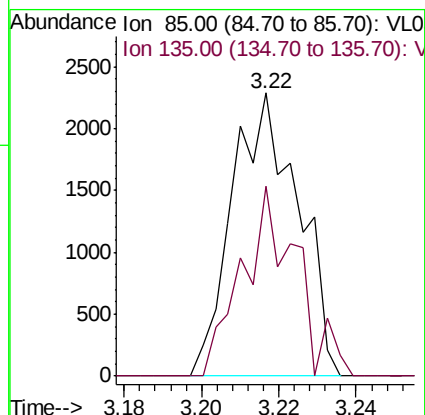
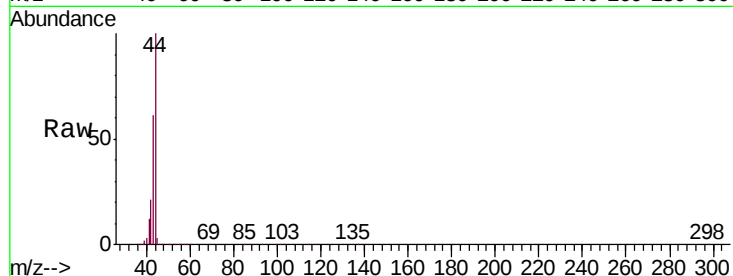
BPS1-SG-3003-55

Tgt Ion: 85 Resp: 2713

Ion Ratio Lower Upper

85 100

135 55.2 54.5 81.7



#9

Propene

Concen: 51.900 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033778.D

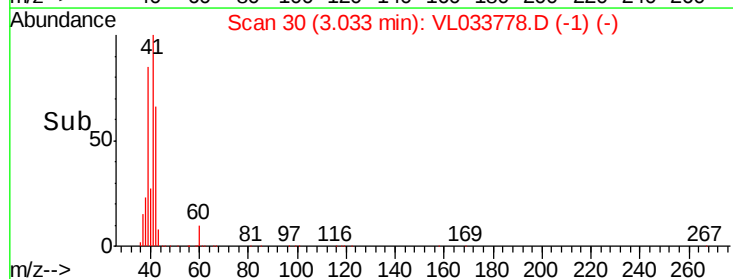
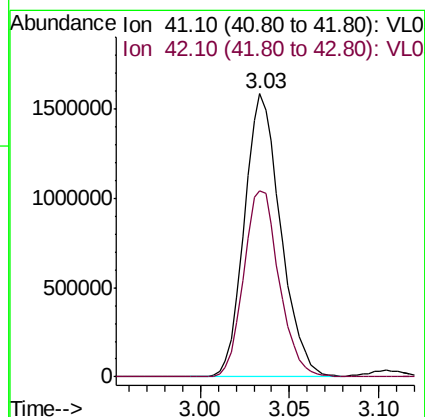
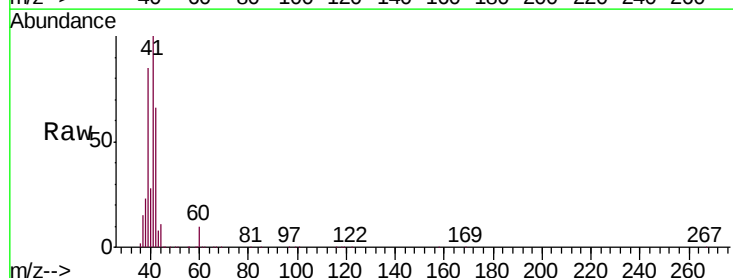
Acq: 23 May 2019 18:07

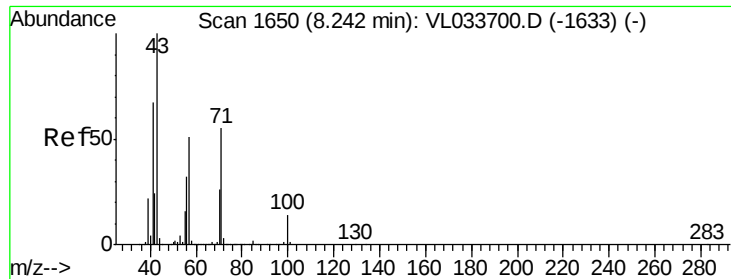
Tgt Ion: 41 Resp: 2258160

Ion Ratio Lower Upper

41 100

42 64.6 56.1 84.1

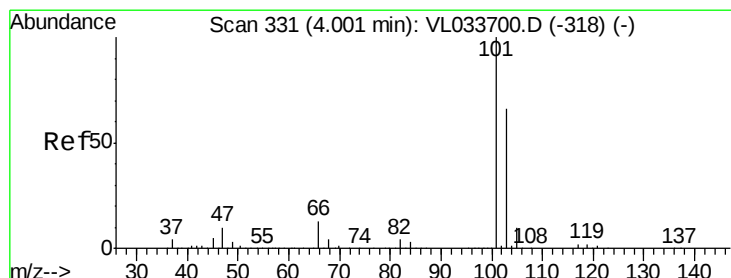
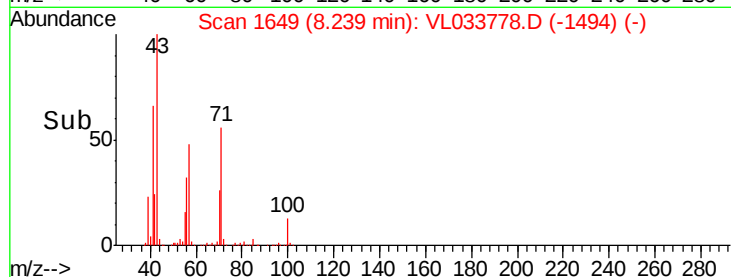
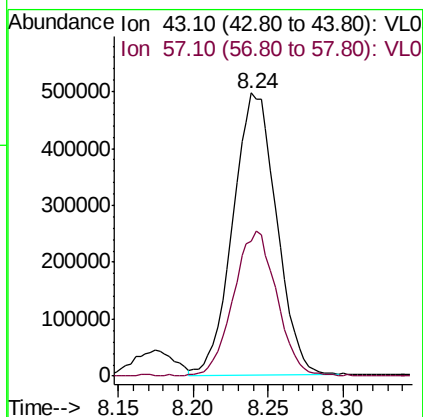
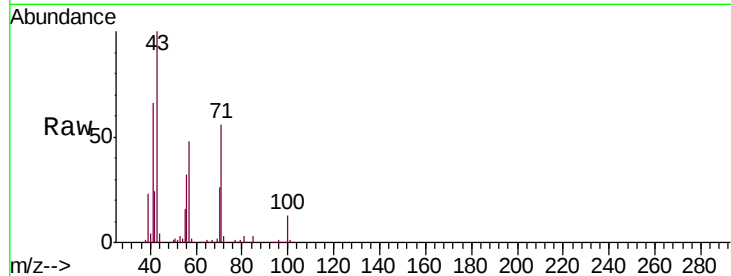




#10
 Heptane
 Concen: 8.146 ppbv
 RT: 8.24 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VL033778.D
 Acq: 23 May 2019 18:07

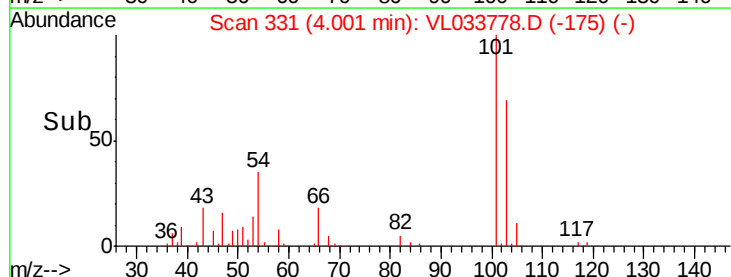
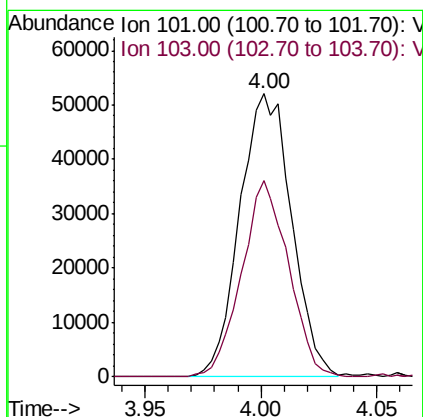
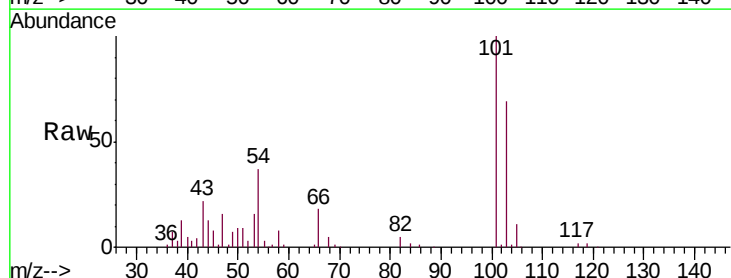
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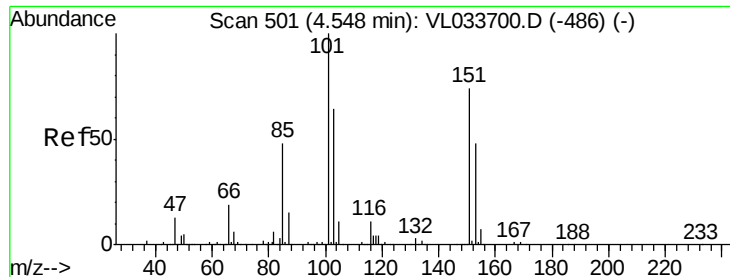
Tgt Ion: 43 Resp: 1003620
 Ion Ratio Lower Upper
 43 100
 57 50.9 41.4 62.0



#11
 Trichlorofluoromethane
 Concen: 0.450 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VL033778.D
 Acq: 23 May 2019 18:07

Tgt Ion: 101 Resp: 80806
 Ion Ratio Lower Upper
 101 100
 103 69.2 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.078 ppbv

RT: 4.55 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

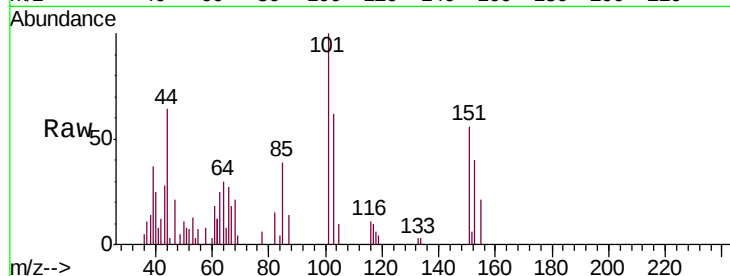
BPS1-SG-3003-55

Tgt Ion: 101 Resp: 9779

Ion Ratio Lower Upper

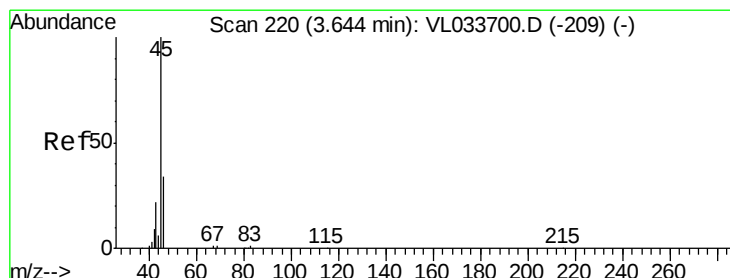
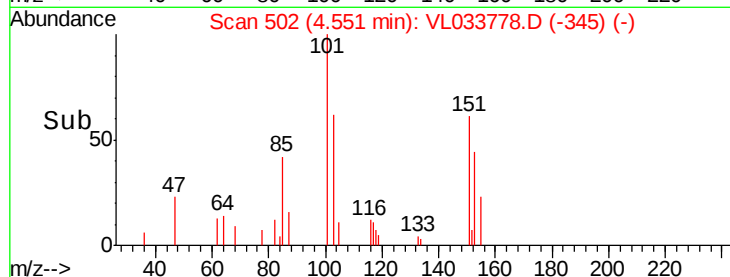
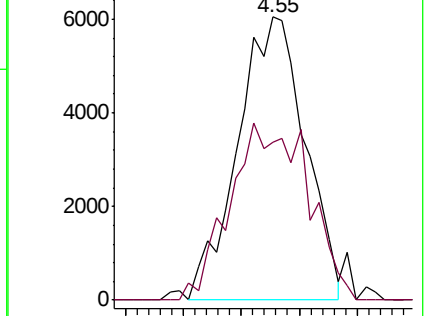
101 100

151 72.4 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 31.287 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.00 min

Lab File: VL033778.D

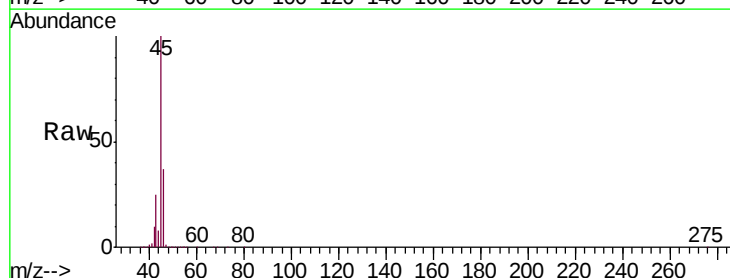
Acq: 23 May 2019 18:07

Tgt Ion: 45 Resp: 439993

Ion Ratio Lower Upper

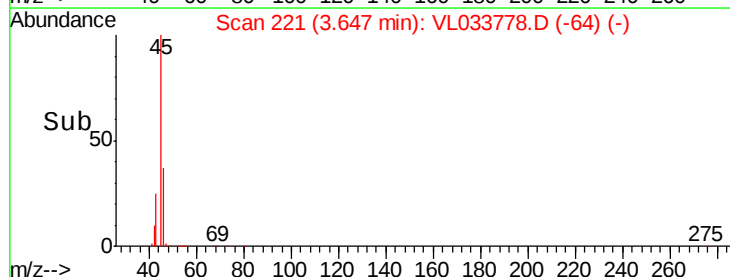
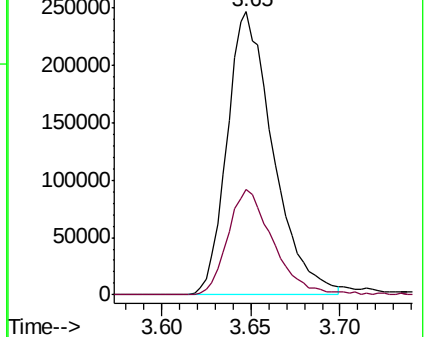
45 100

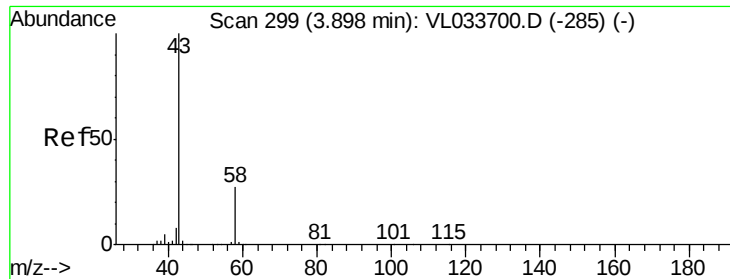
46 37.5 14.8 59.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 68.611 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

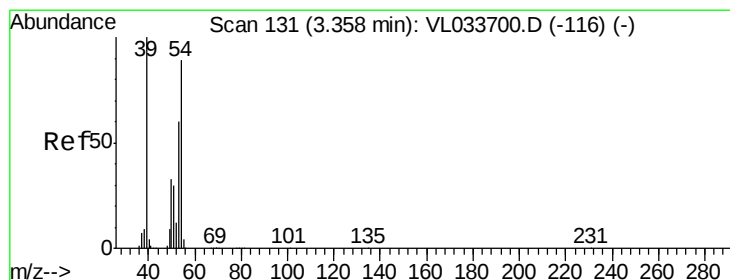
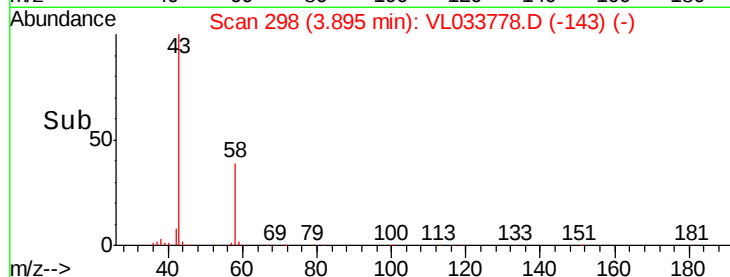
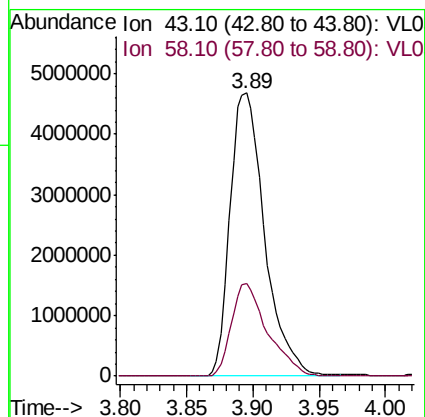
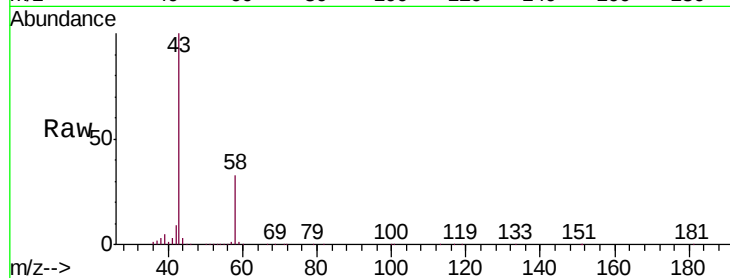
BPS1-SG-3003-55

Tgt Ion: 43 Resp: 8501229

Ion Ratio Lower Upper

43 100

58 34.2 21.3 31.9#



#16

1,3-Butadiene

Concen: 27.457 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.02 min

Lab File: VL033778.D

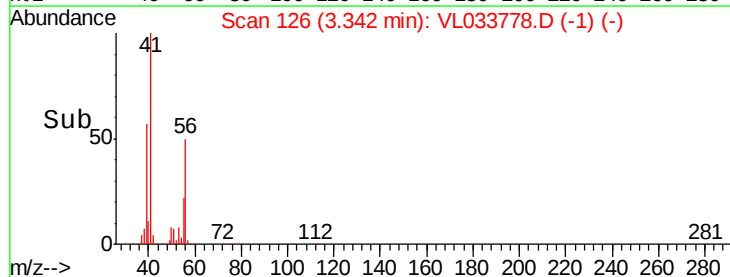
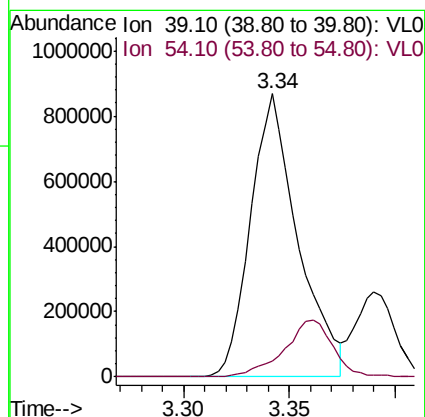
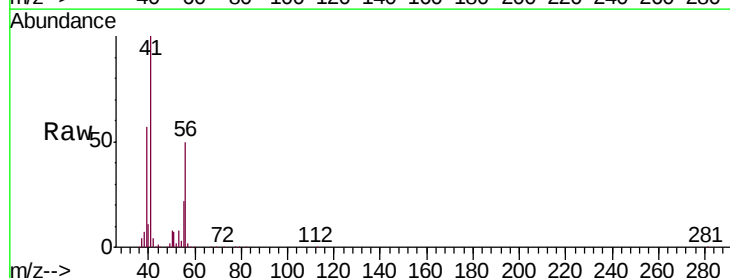
Acq: 23 May 2019 18:07

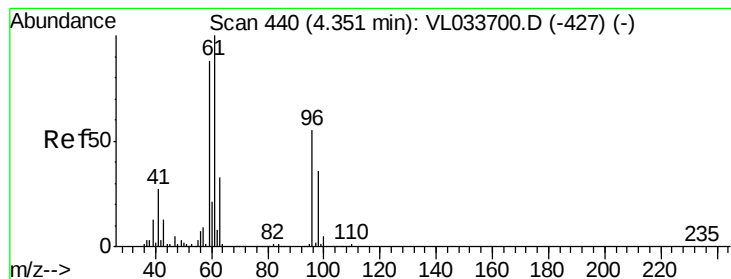
Tgt Ion: 39 Resp: 1354775

Ion Ratio Lower Upper

39 100

54 20.7 69.0 103.6#





#17

tert-Butyl alcohol

Concen: 3.097 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.01 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

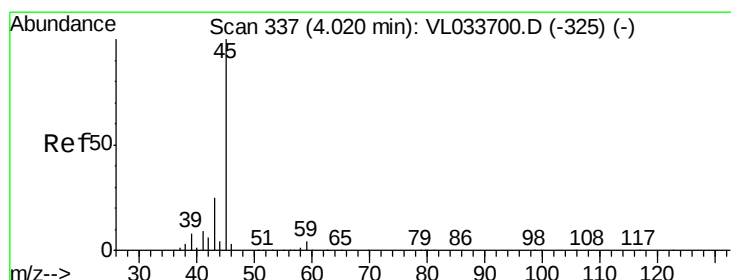
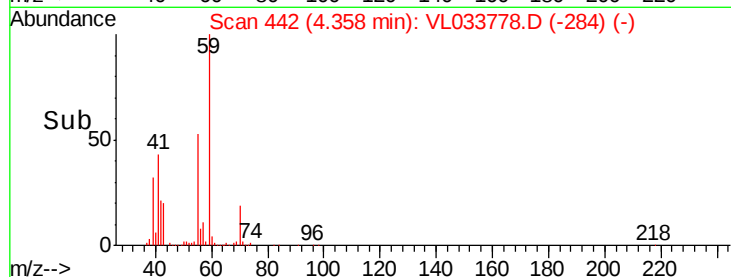
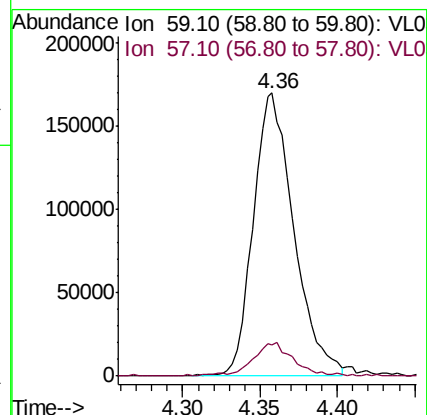
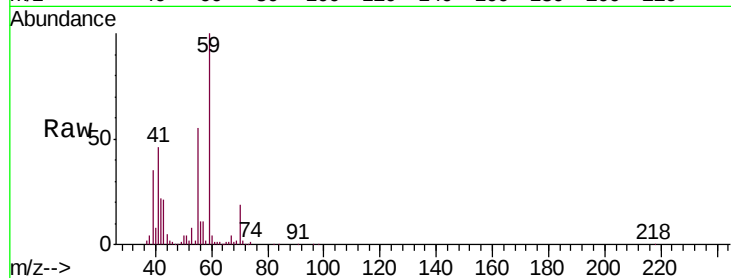
BPS1-SG-3003-55

Tgt Ion: 59 Resp: 310343

Ion Ratio Lower Upper

59 100

57 12.6 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 1.501 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033778.D

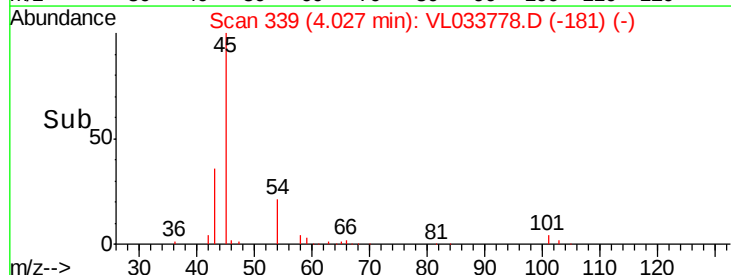
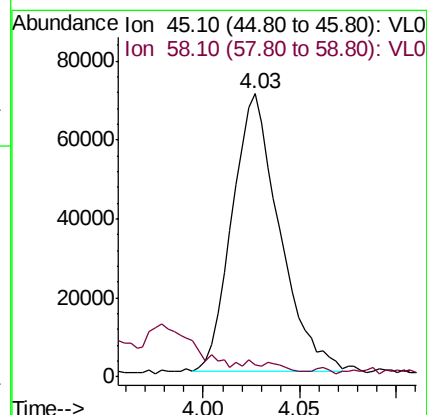
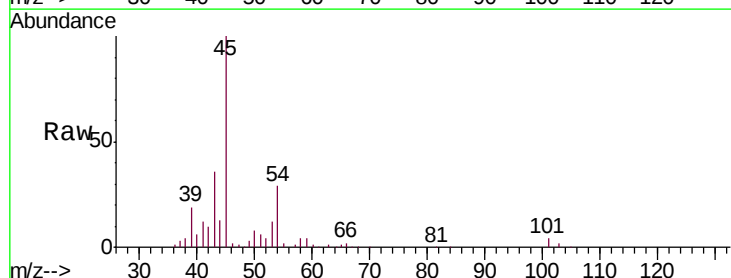
Acq: 23 May 2019 18:07

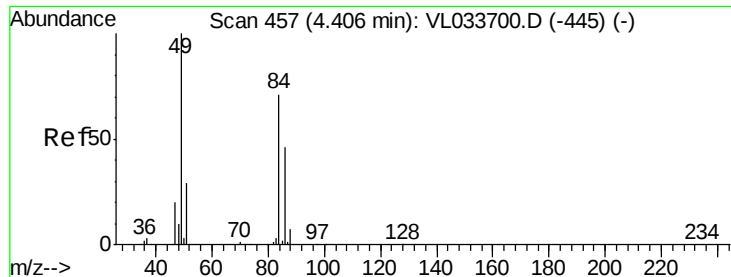
Tgt Ion: 45 Resp: 119954

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#

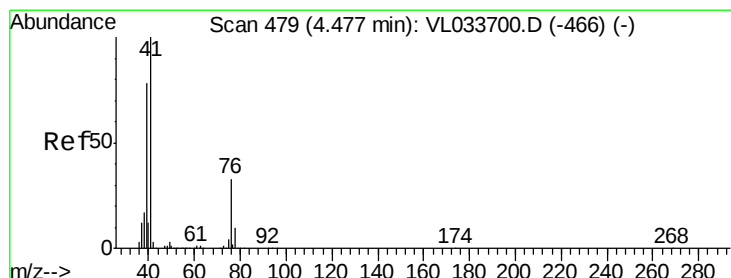
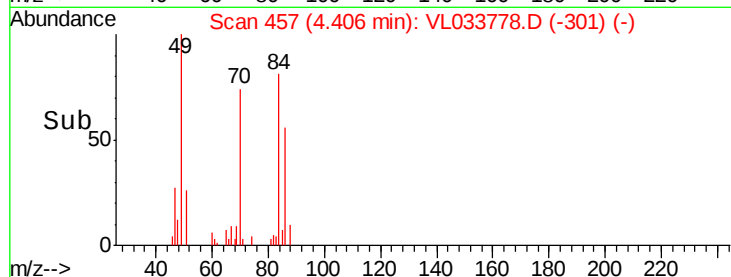
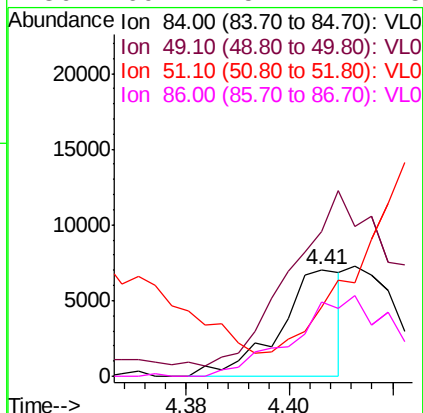
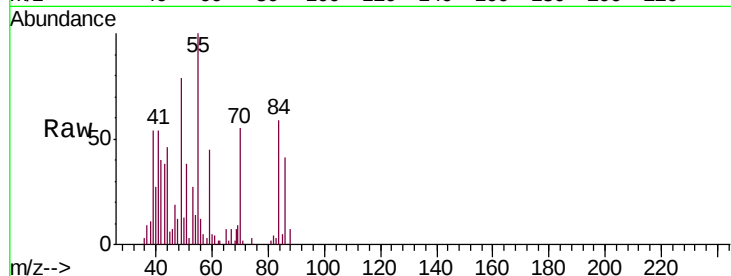




#20
Methylene Chloride
Concen: 0.124 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

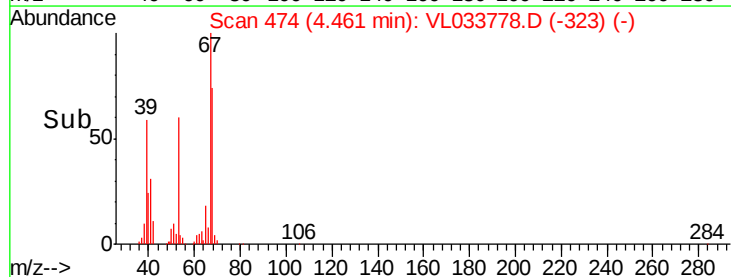
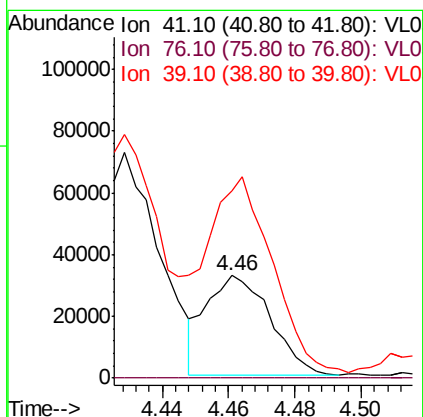
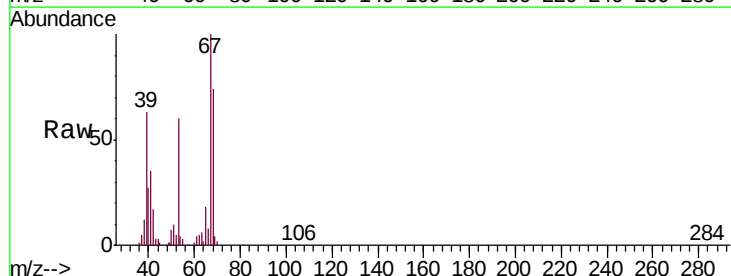
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55

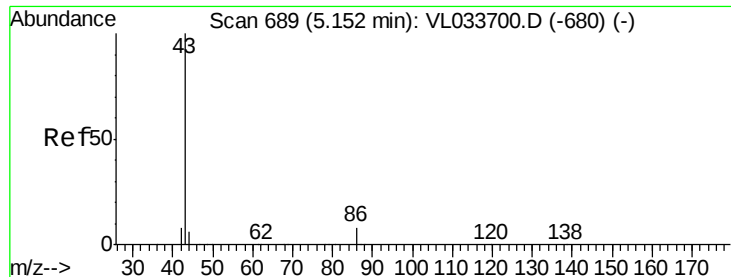
Tgt Ion: 84 Resp: 5918
Ion Ratio Lower Upper
84 100
49 121.6 112.8 169.2
51 3.2 33.4 50.0#
86 69.2 51.7 77.5



#21
Allyl Chloride
Concen: 0.555 ppbv
RT: 4.46 min Scan# 474
Delta R.T. -0.02 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

Tgt Ion: 41 Resp: 42862
Ion Ratio Lower Upper
41 100
76 0.0 25.9 38.9#
39 195.4 64.6 97.0#





#23

Vinyl Acetate

Concen: 1.355 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.01 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

Tgt Ion: 43 Resp: 221314

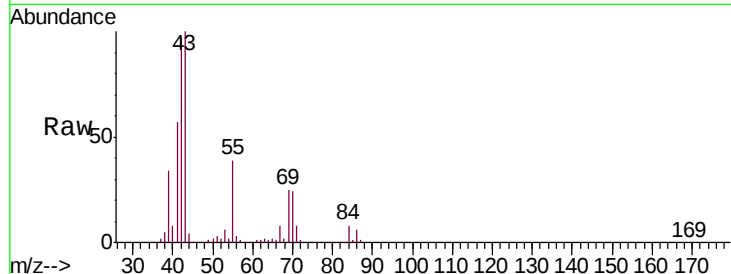
Ion Ratio Lower Upper

43 100

86 6.4 6.0 9.0

42 96.6 7.5 11.3#

44 1.0 4.4 6.6#

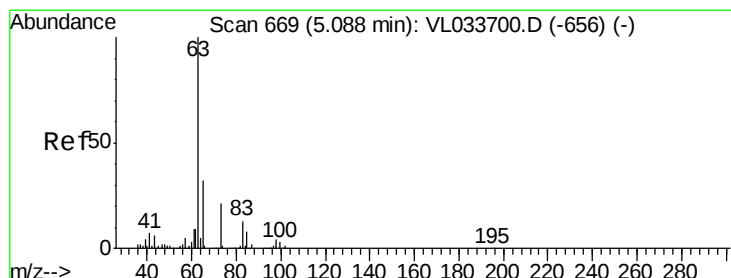
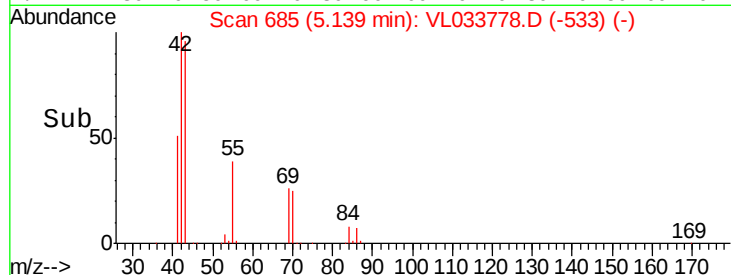
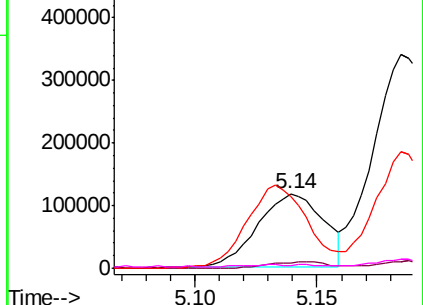


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.052 ppbv

RT: 5.13 min Scan# 682

Delta R.T. 0.04 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

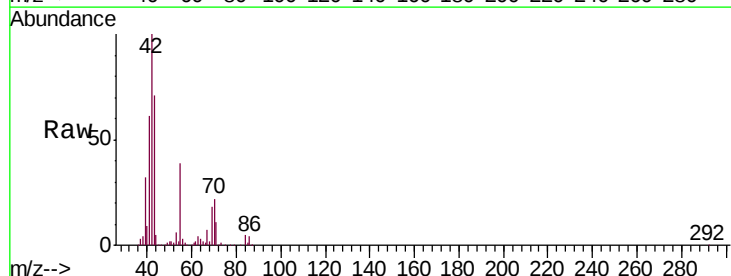
Tgt Ion: 63 Resp: 6405

Ion Ratio Lower Upper

63 100

98 0.0 1.8 5.5#

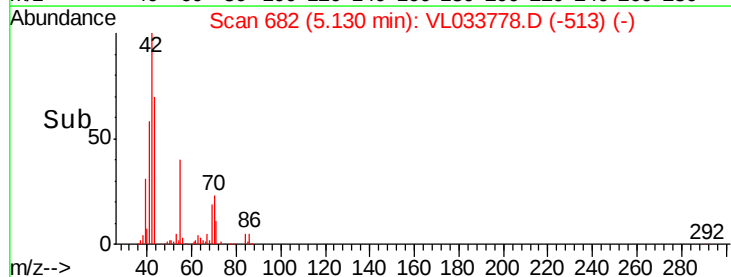
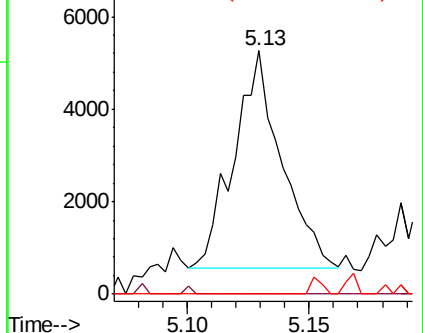
100 0.0 1.4 4.2#

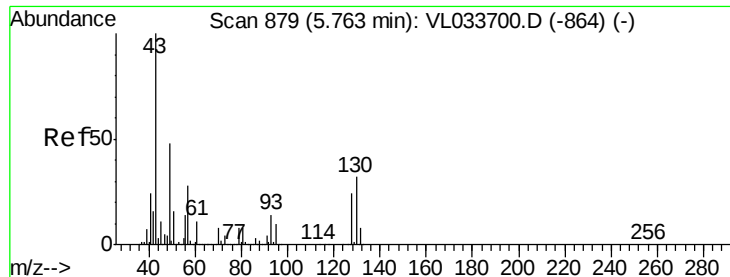


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 4.129 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

Tgt Ion: 43 Resp: 898826

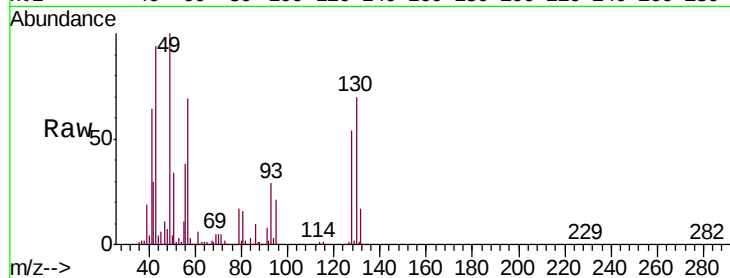
Ion Ratio Lower Upper

43 100

45 6.2 7.9 11.9#

61 5.5 7.7 11.5#

70 5.2 5.8 8.6#



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

5.77

600000

500000

400000

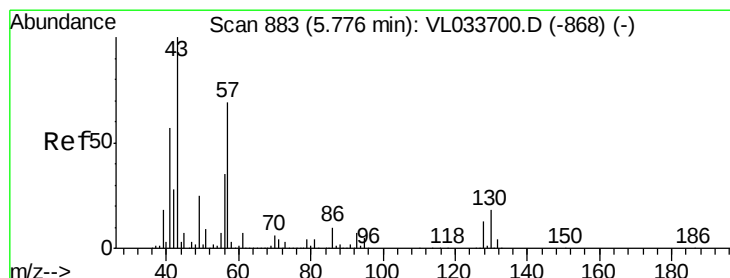
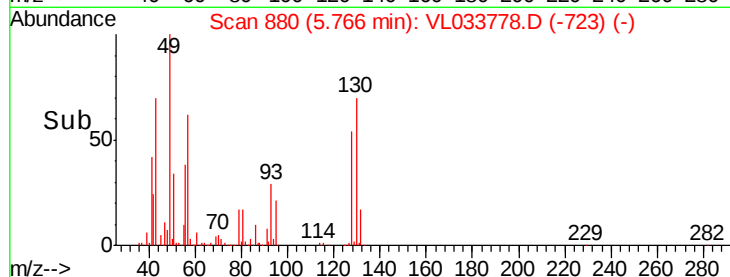
300000

200000

100000

0

Time-->



#26

Hexane

Concen: 8.135 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Tgt Ion: 57 Resp: 761213

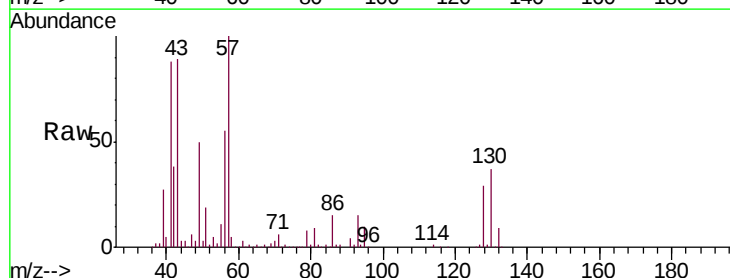
Ion Ratio Lower Upper

57 100

41 94.7 69.8 104.6

43 118.3 181.8 272.6#

56 55.6 42.1 63.1



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

5.78

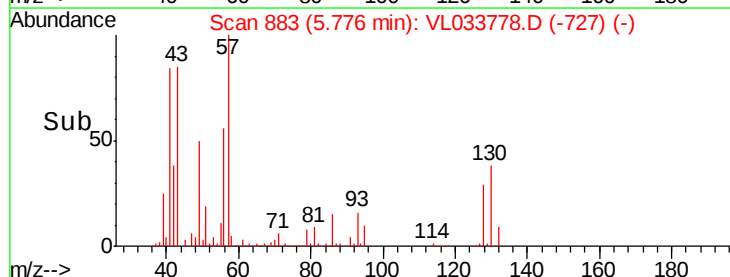
600000

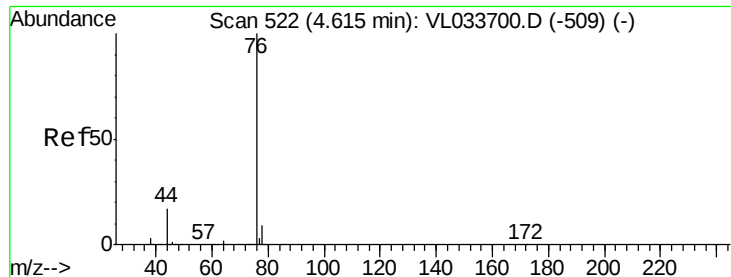
400000

200000

0

Time-->





#27

Carbon Disulfide

Concen: 4.754 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

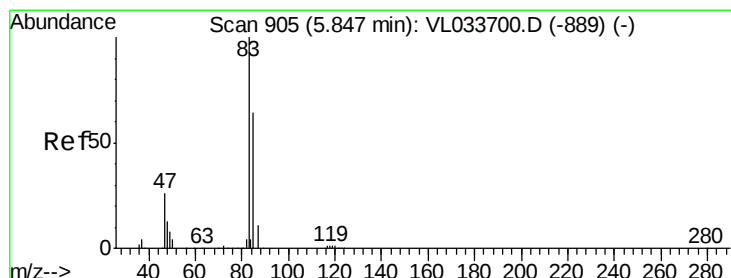
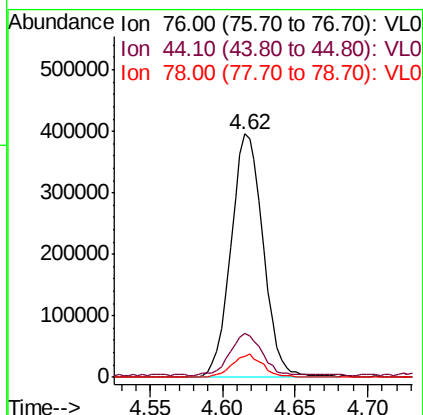
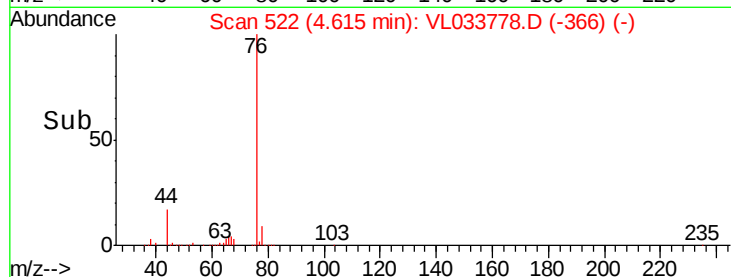
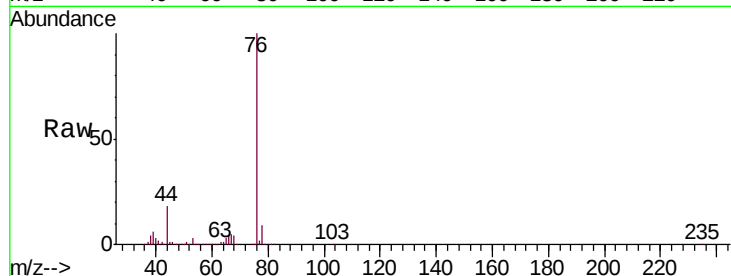
Tgt Ion: 76 Resp: 610285

Ion Ratio Lower Upper

76 100

44 17.6 13.8 20.8

78 9.0 7.4 11.0



#29

Chloroform

Concen: 0.724 ppbv

RT: 5.85 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL033778.D

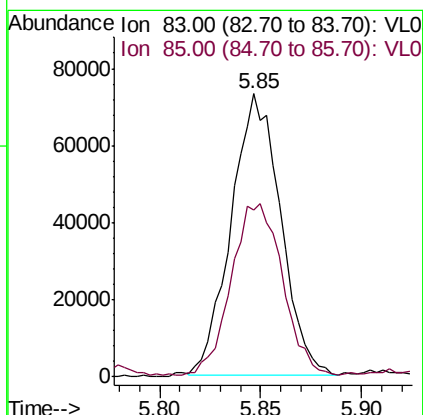
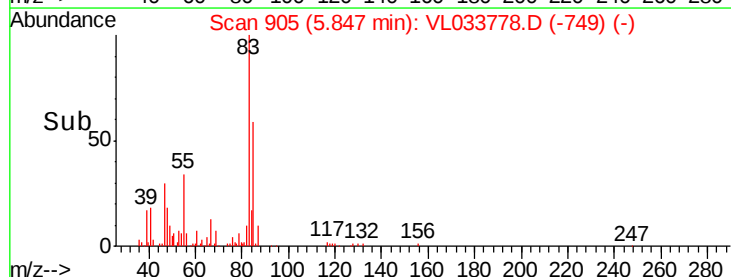
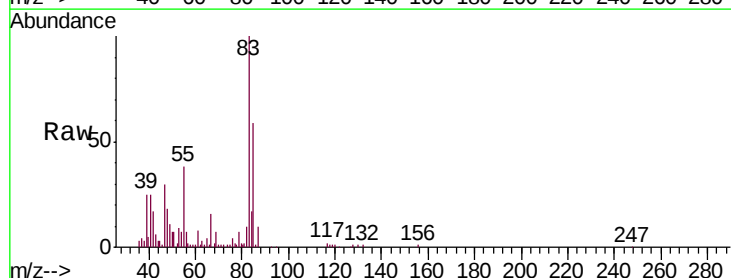
Acq: 23 May 2019 18:07

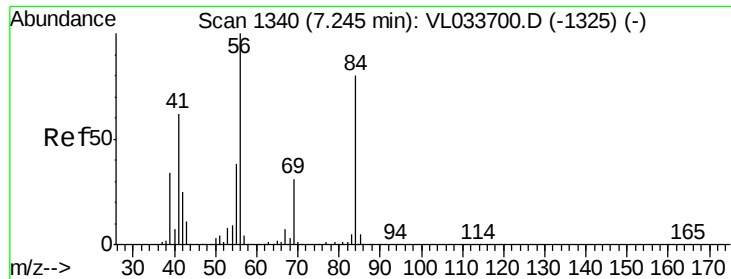
Tgt Ion: 83 Resp: 124814

Ion Ratio Lower Upper

83 100

85 58.7 51.5 77.3

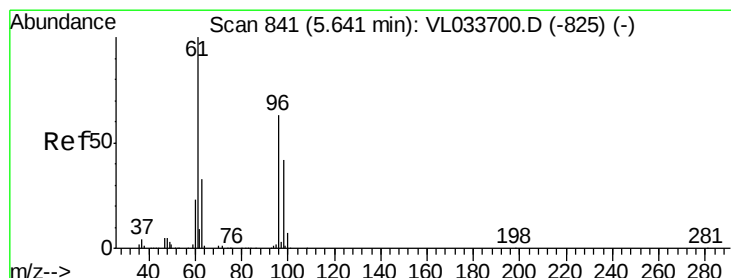
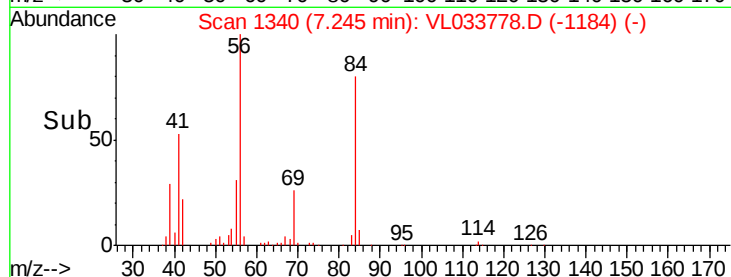
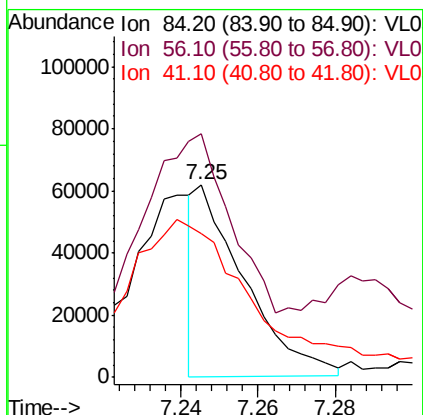
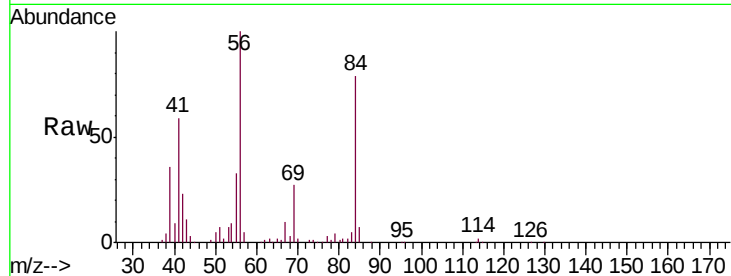




#30
Cyclohexane
Concen: 0.683 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

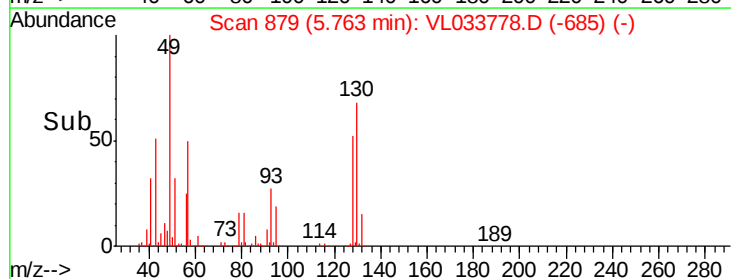
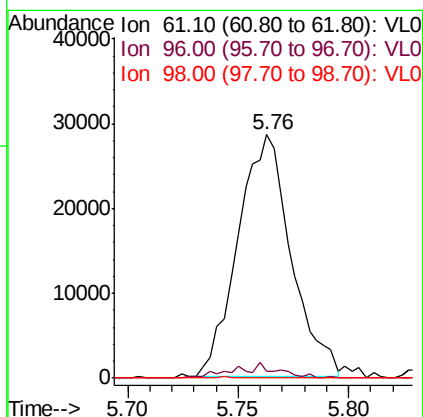
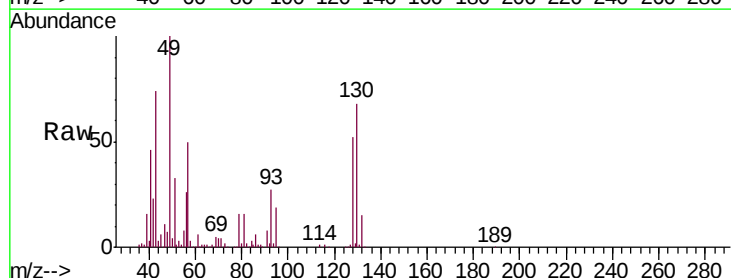
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55

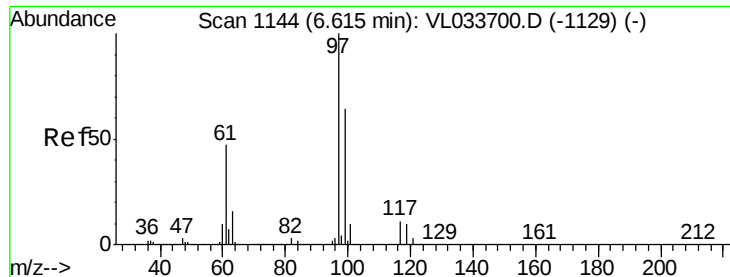
Tgt Ion: 84 Resp: 53723
Ion Ratio Lower Upper
84 100
56 311.7 107.7 161.5#
41 0.0 66.0 99.0#



#31
cis-1,2-Dichloroethene
Concen: 0.514 ppbv
RT: 5.76 min Scan# 879
Delta R.T. 0.12 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

Tgt Ion: 61 Resp: 47726
Ion Ratio Lower Upper
61 100
96 3.1 50.8 76.2#
98 0.0 33.3 49.9#





#32

1,1,1-Trichloroethane

Concen: 0.068 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

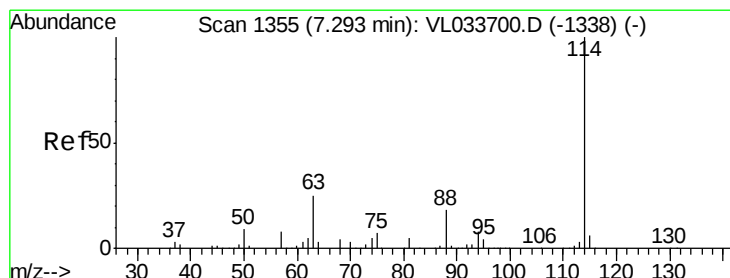
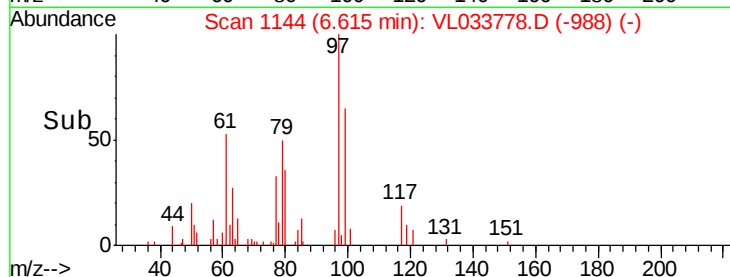
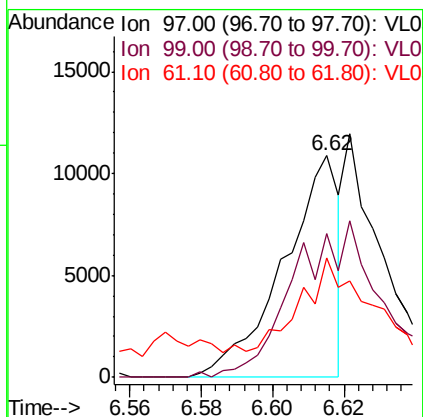
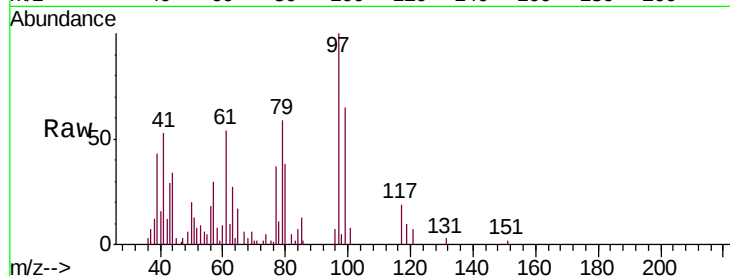
Tgt Ion: 97 Resp: 11743

Ion Ratio Lower Upper

97 100

99 0.0 51.5 77.3#

61 101.3 37.8 56.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

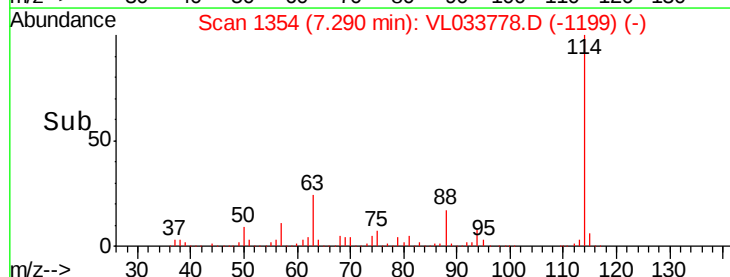
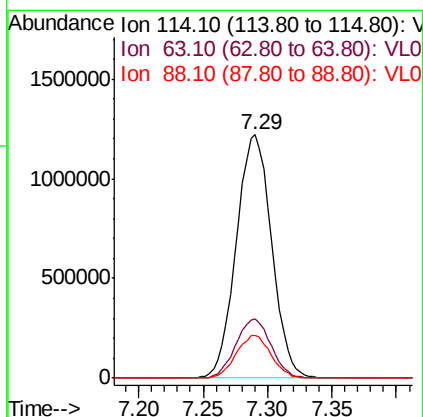
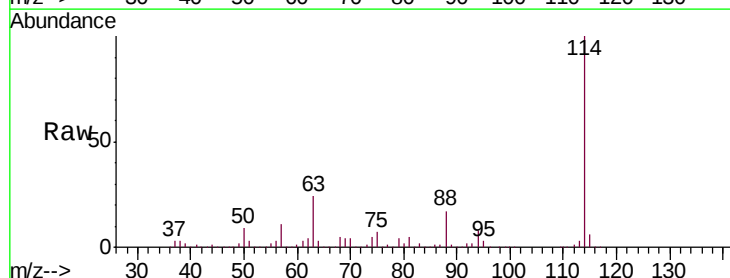
Tgt Ion: 114 Resp: 2332098

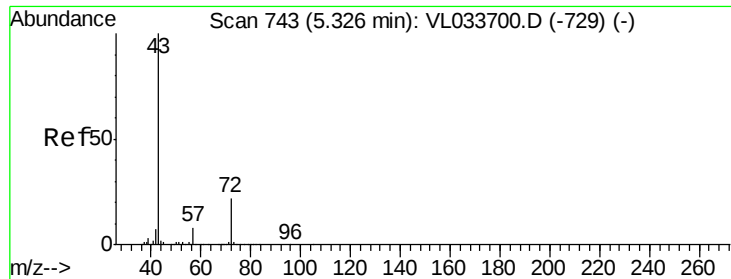
Ion Ratio Lower Upper

114 100

63 24.5 20.9 31.3

88 17.4 14.3 21.5

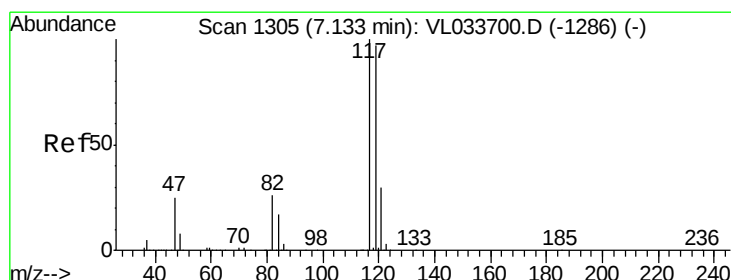
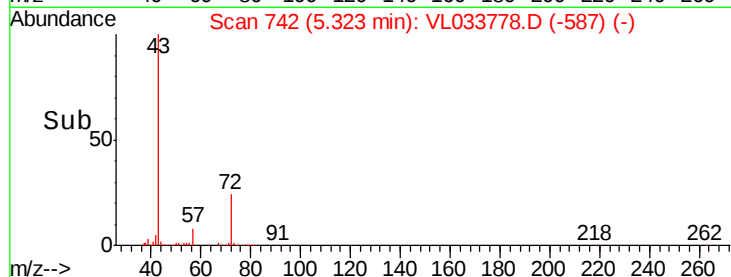
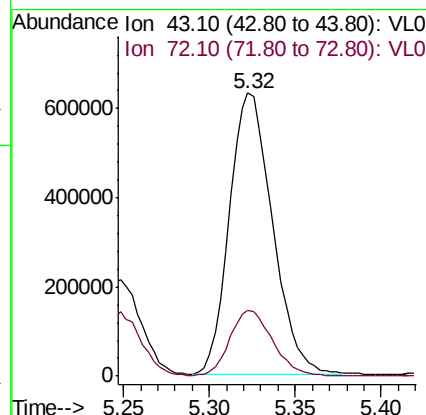
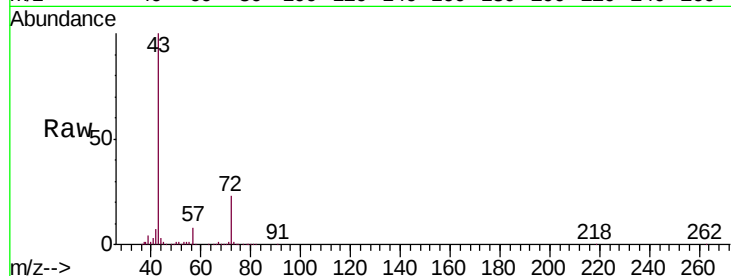




#34
2-Butanone
Concen: 7.600 ppbv
RT: 5.32 min Scan# 742
Delta R.T. -0.00 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

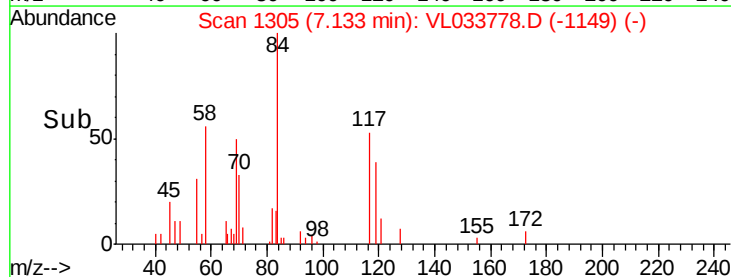
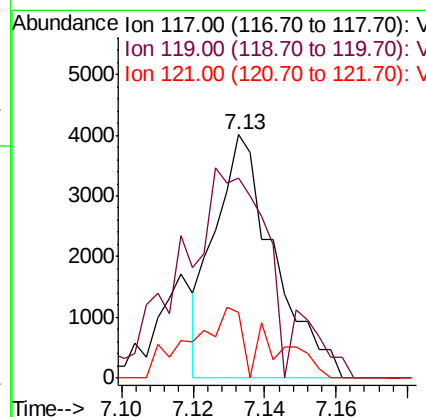
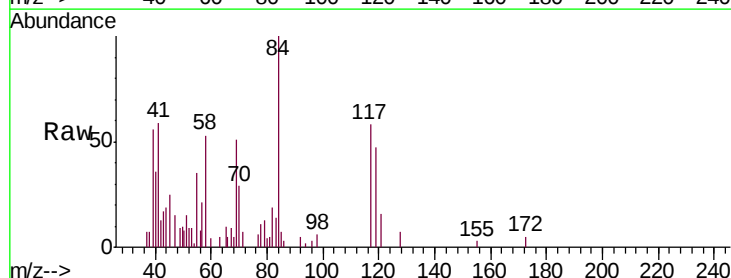
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55

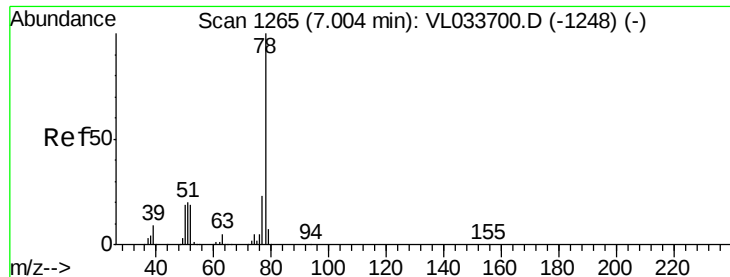
Tgt Ion: 43 Resp: 1098572
Ion Ratio Lower Upper
43 100
72 23.2 17.8 26.6



#35
Carbon Tetrachloride
Concen: 0.025 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. 0.00 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

Tgt Ion: 117 Resp: 4632
Ion Ratio Lower Upper
117 100
119 73.8 77.2 115.8#
121 27.0 24.1 36.1





#36

Benzene

Concen: 4.954 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

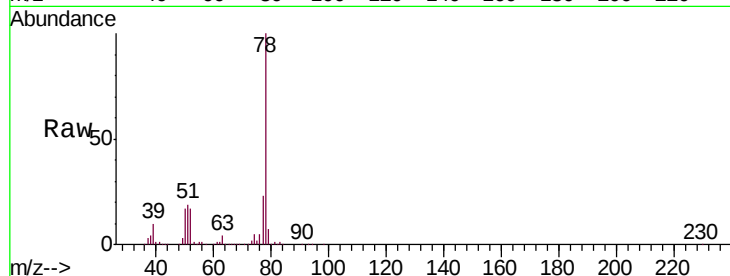
Tgt Ion: 78 Resp: 1050854

Ion Ratio Lower Upper

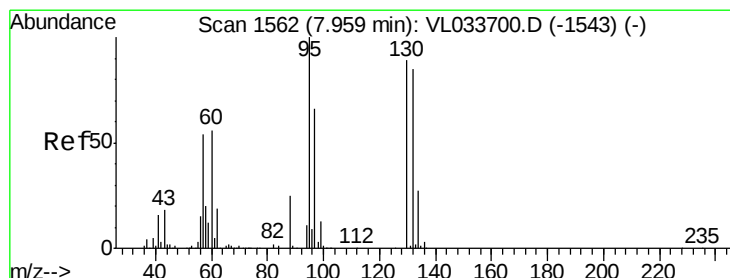
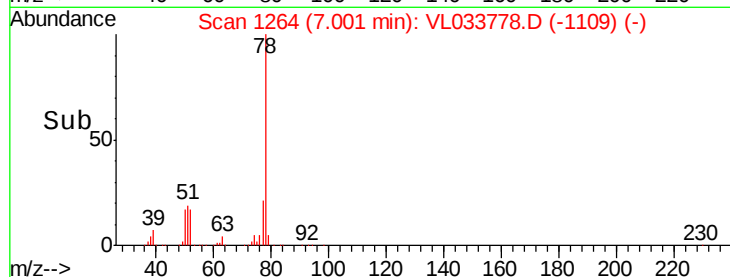
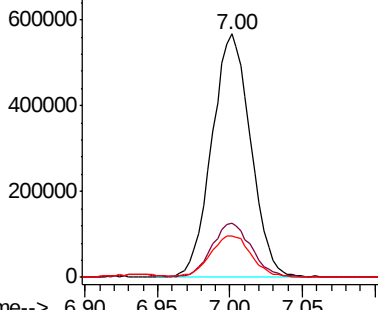
78 100

77 22.3 18.4 27.6

50 17.0 15.5 23.3



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



#38

Trichloroethene

Concen: 0.026 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Tgt Ion: 130 Resp: 2038

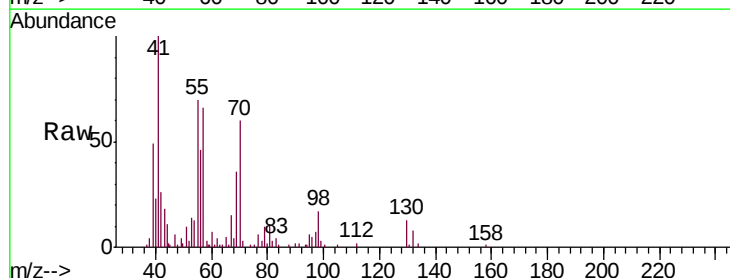
Ion Ratio Lower Upper

130 100

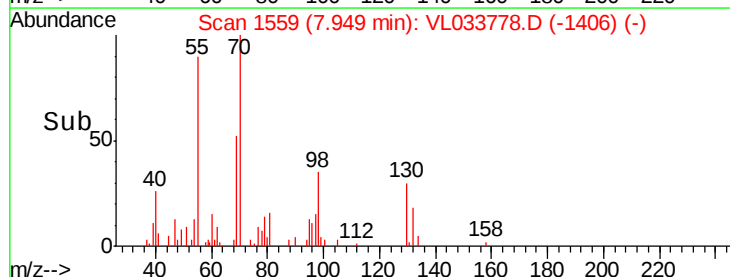
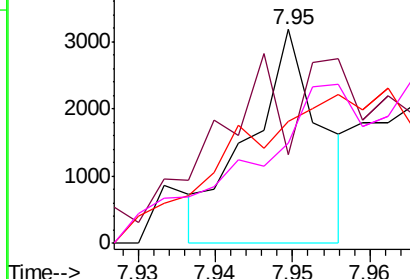
95 15.8 90.2 135.4#

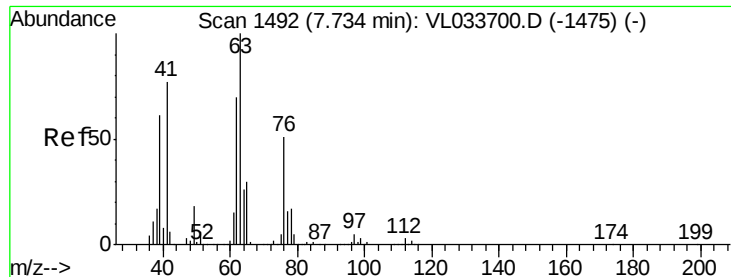
132 45.0 76.4 114.6#

97 32.9 59.8 89.6#



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: 7.138 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.44 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

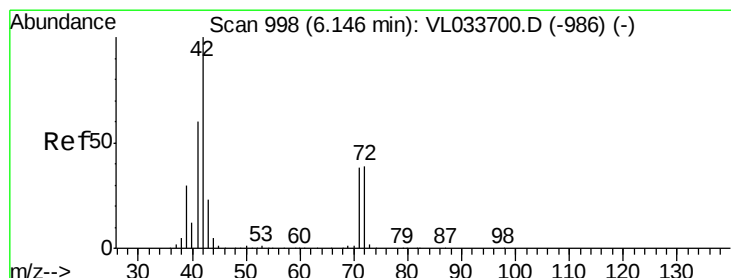
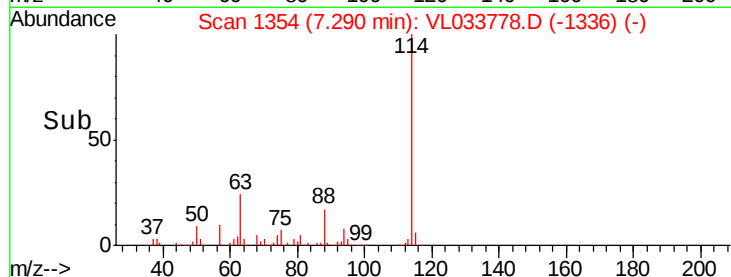
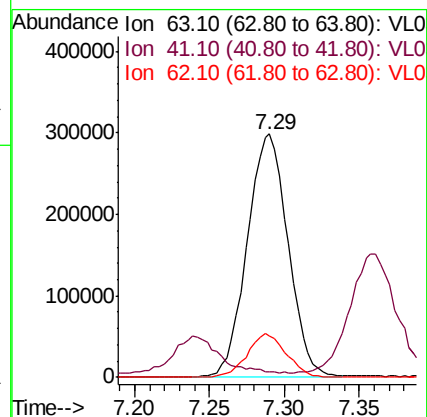
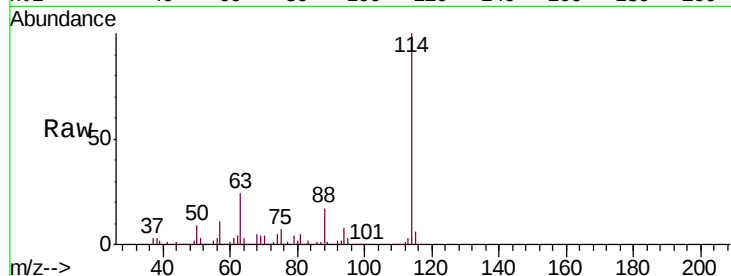
Tgt Ion: 63 Resp: 564521

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 17.2 56.2 84.4#



#41

Tetrahydrofuran

Concen: 0.423 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

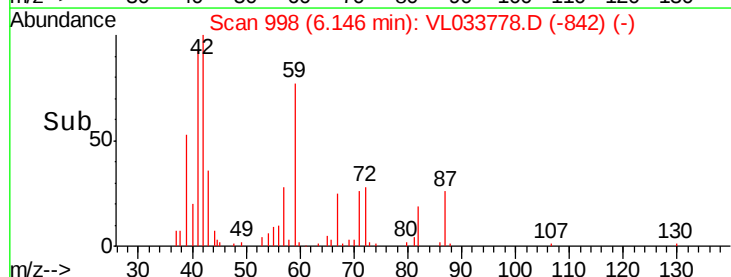
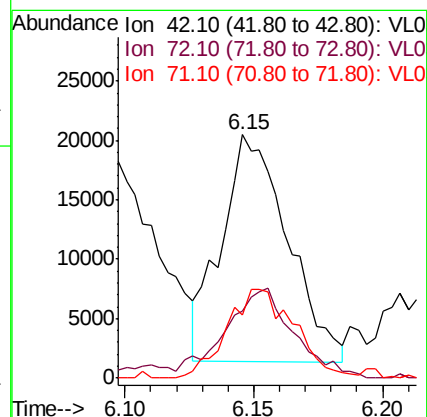
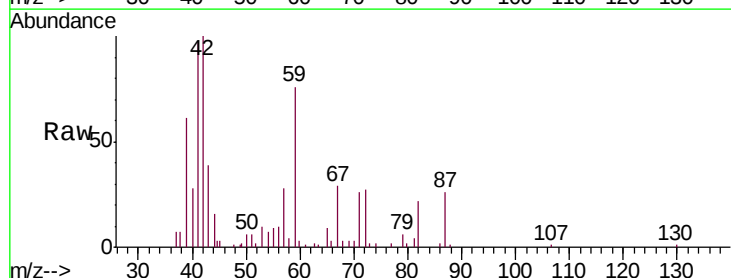
Tgt Ion: 42 Resp: 34254

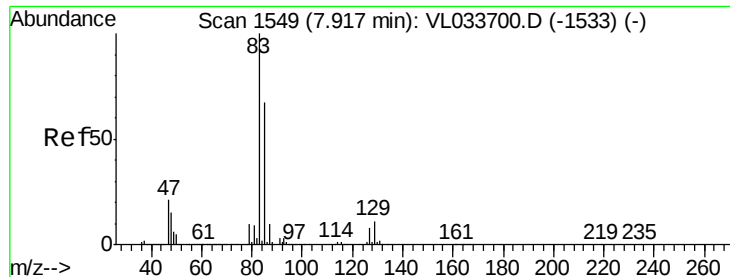
Ion Ratio Lower Upper

42 100

72 47.7 32.0 48.0

71 41.3 30.4 45.6





#42

Bromodichloromethane

Concen: 0.058 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

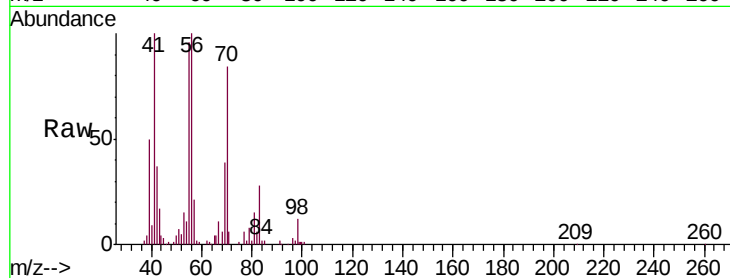
Tgt Ion: 83 Resp: 10915

Ion Ratio Lower Upper

83 100

85 9.4 53.3 79.9#

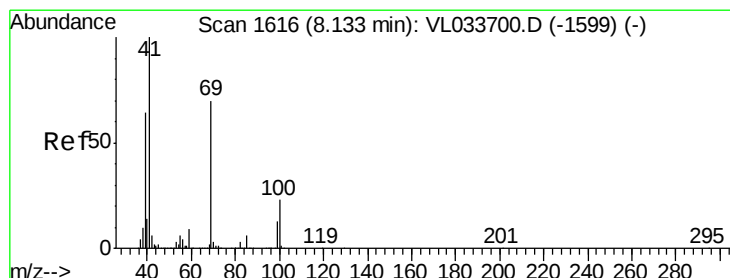
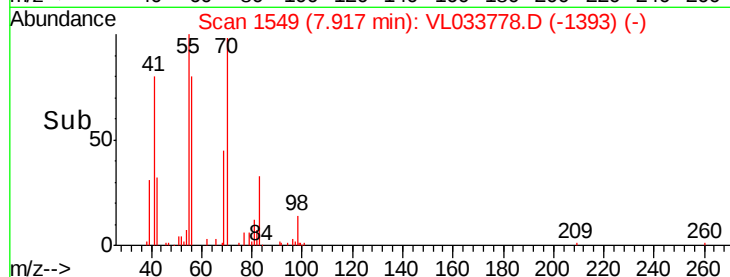
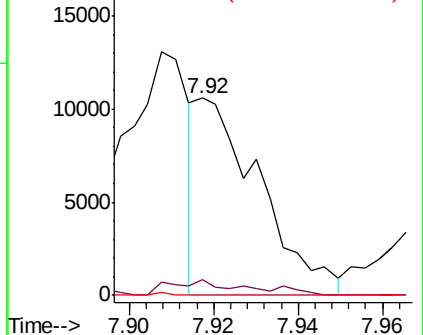
127 0.0 6.5 9.7#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.017 ppbv

RT: 8.13 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

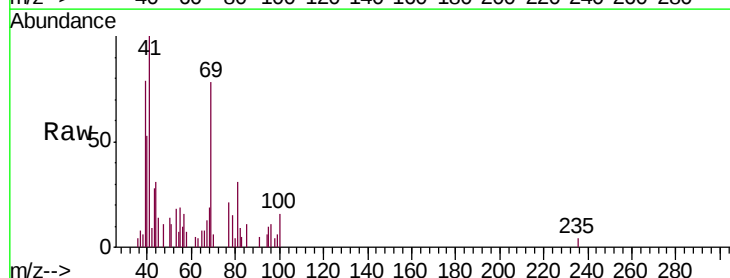
Tgt Ion: 69 Resp: 1305

Ion Ratio Lower Upper

69 100

41 0.0 116.3 174.5#

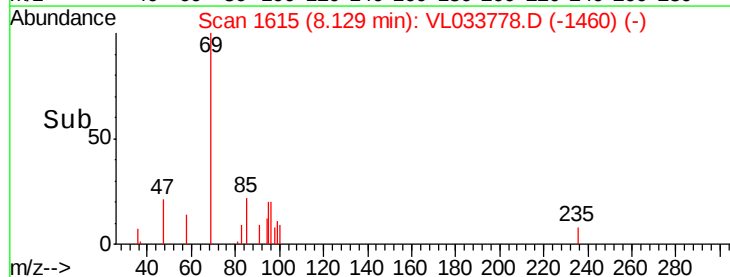
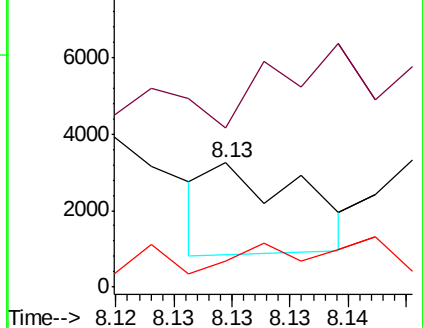
100 0.0 25.3 37.9#

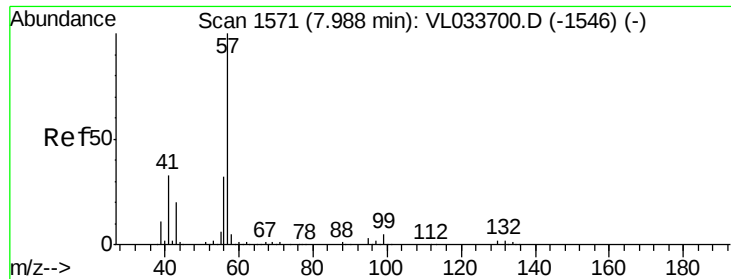


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 1.357 ppbv

RT: 7.98 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

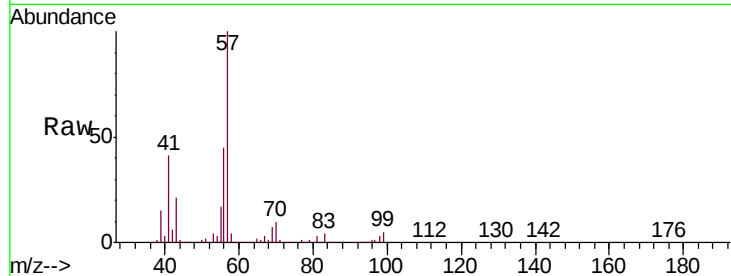
Tgt Ion: 57 Resp: 486517

Ion Ratio Lower Upper

57 100

41 44.8 25.4 38.0#

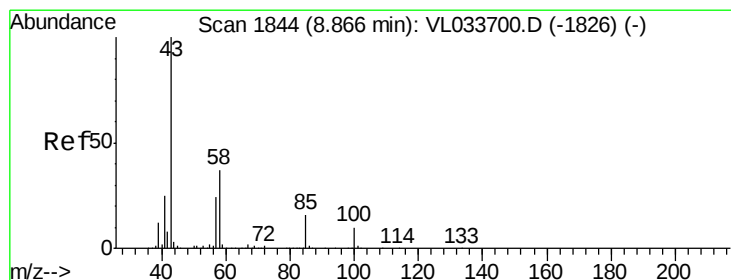
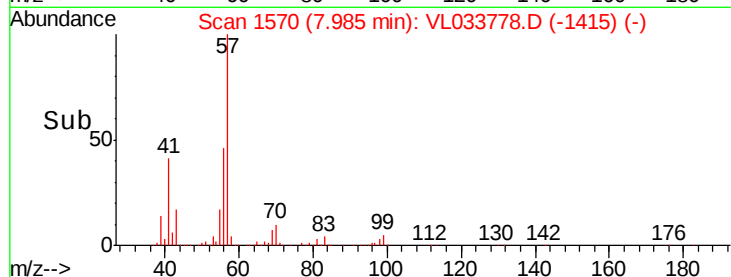
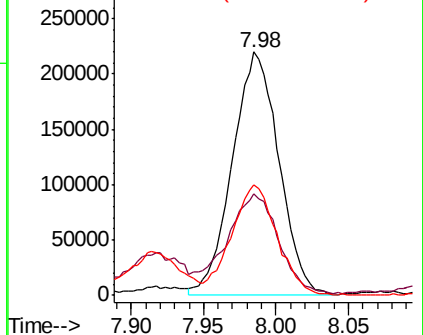
56 44.7 24.7 37.1#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 1.349 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VL033778.D

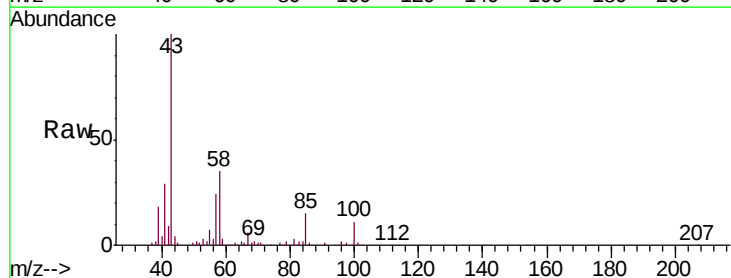
Acq: 23 May 2019 18:07

Tgt Ion: 43 Resp: 299940

Ion Ratio Lower Upper

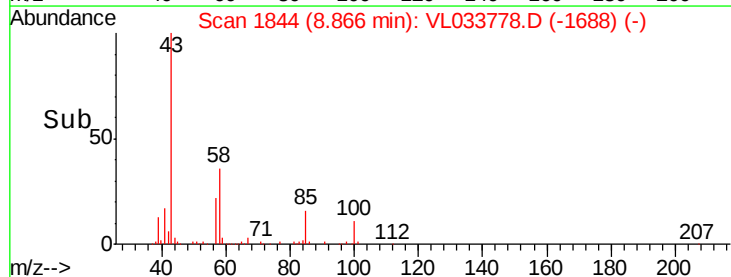
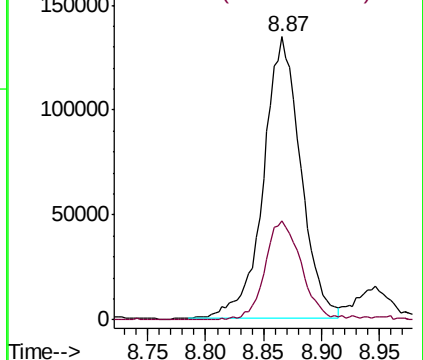
43 100

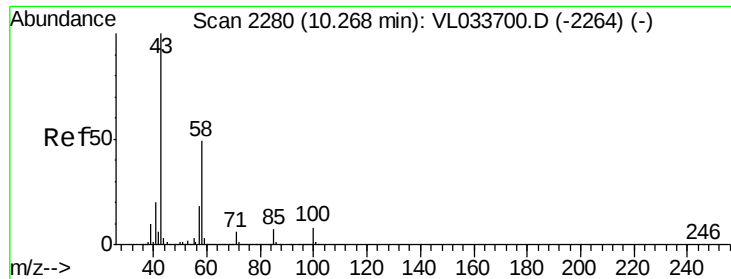
58 34.8 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 1.419 ppbv

RT: 10.26 min Scan# 2277

Delta R.T. -0.01 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

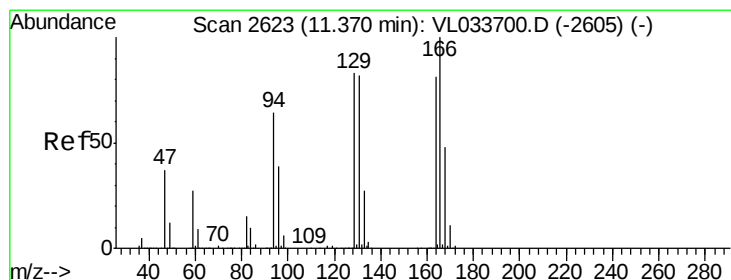
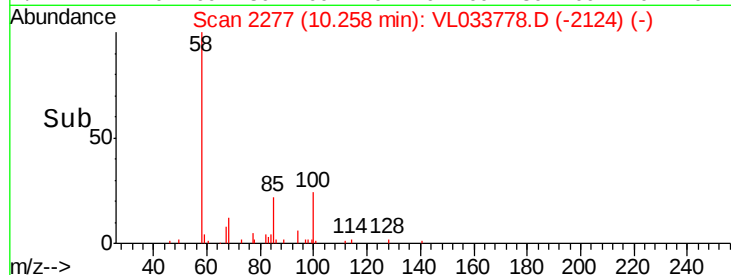
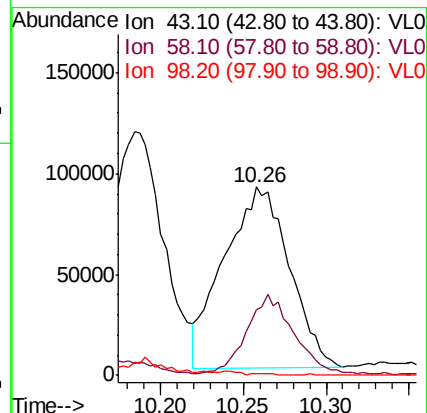
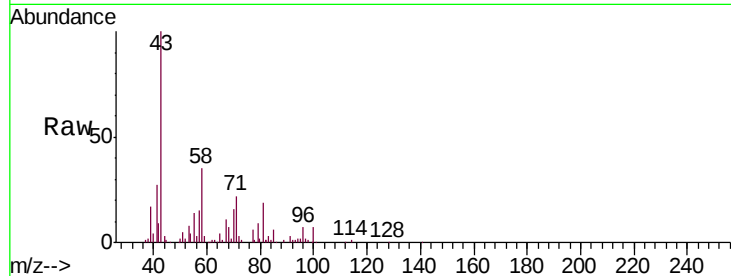
Tgt Ion: 43 Resp: 246290

Ion Ratio Lower Upper

43 100

58 32.2 38.7 58.1#

98 0.0 0.2 0.4#



#52

Tetrachloroethene

Concen: 0.115 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Tgt Ion: 164 Resp: 8561

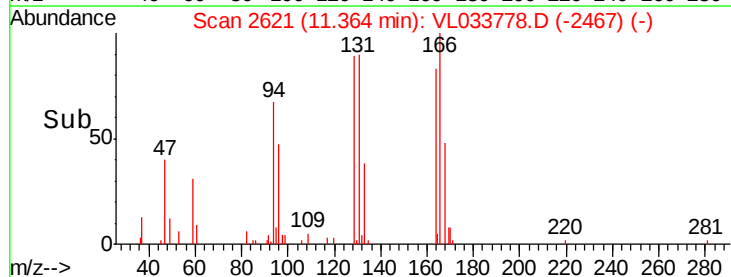
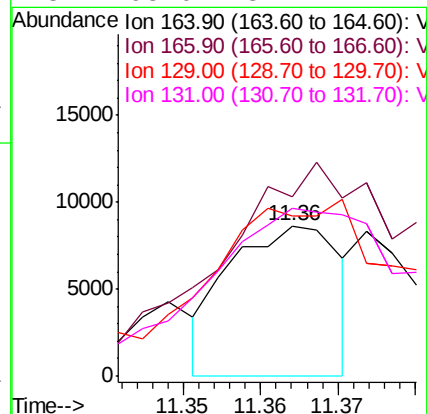
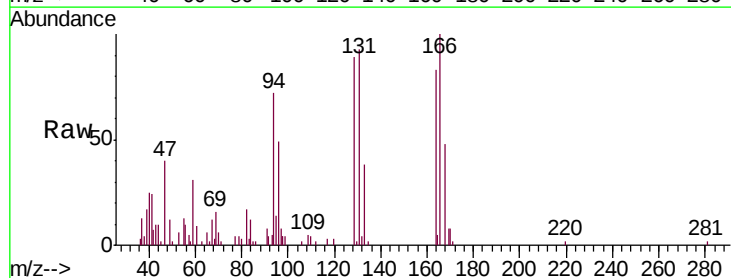
Ion Ratio Lower Upper

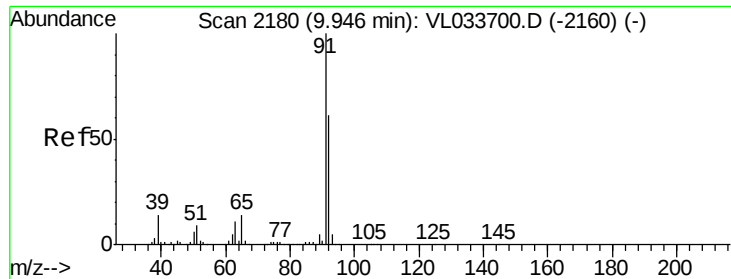
164 100

166 90.6 98.9 148.3#

129 84.1 81.8 122.6

131 95.0 81.1 121.7





#53

Toluene

Concen: 41.182 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

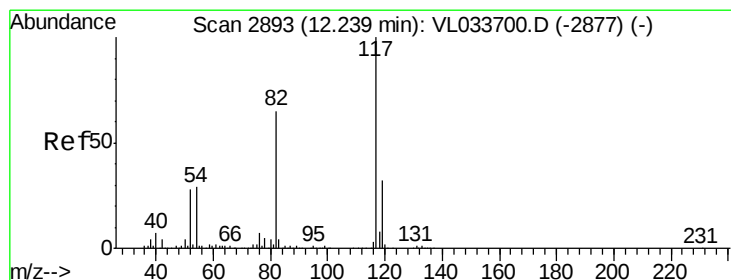
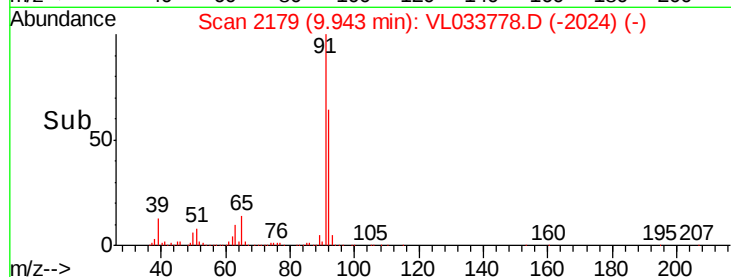
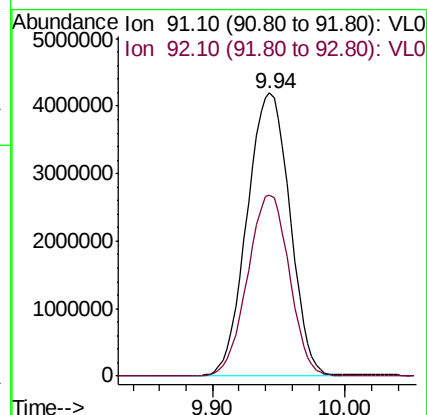
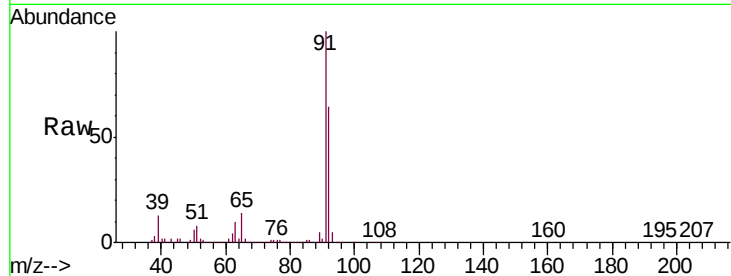
BPS1-SG-3003-55

Tgt Ion: 91 Resp: 9422938

Ion Ratio Lower Upper

91 100

92 62.4 47.6 71.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

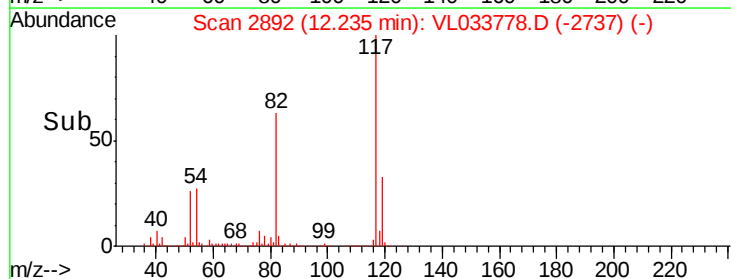
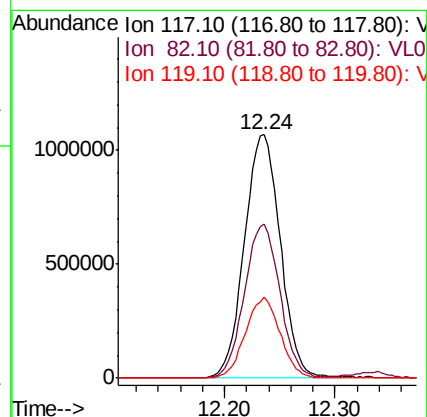
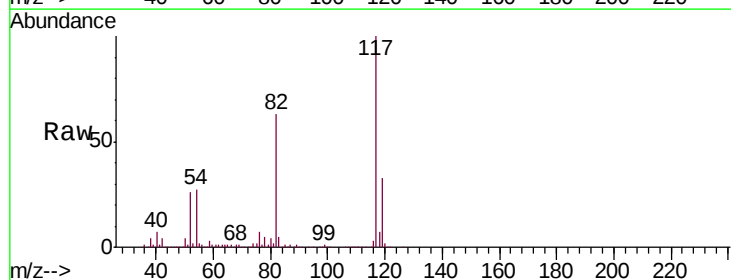
Tgt Ion: 117 Resp: 2412515

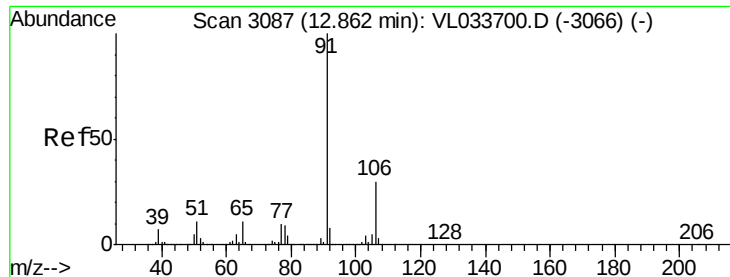
Ion Ratio Lower Upper

117 100

82 62.6 49.4 74.0

119 32.4 24.9 37.3





#58

Ethyl Benzene

Concen: 7.144 ppbv

RT: 12.86 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

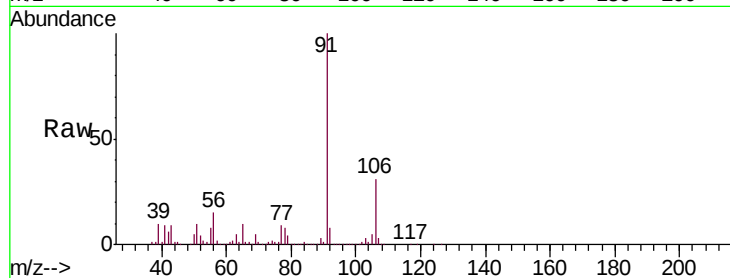
BPS1-SG-3003-55

Tgt Ion: 91 Resp: 2282266

Ion Ratio Lower Upper

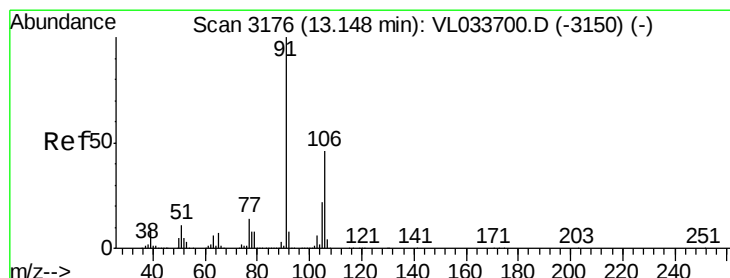
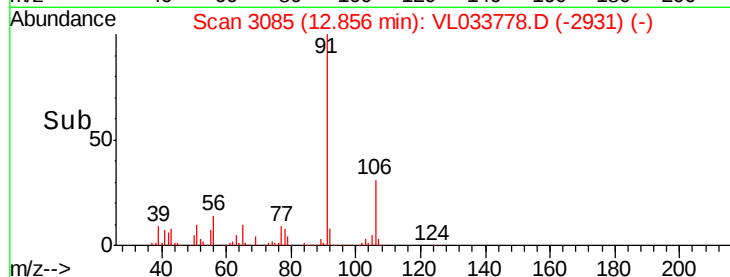
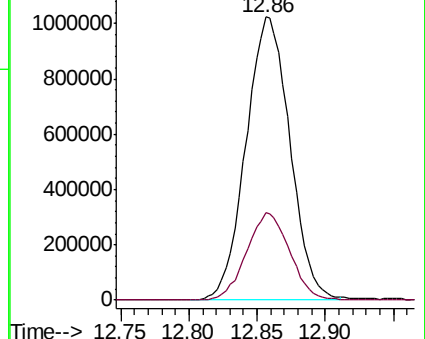
91 100

106 31.2 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 23.798 ppbv

RT: 13.12 min Scan# 3166

Delta R.T. -0.03 min

Lab File: VL033778.D

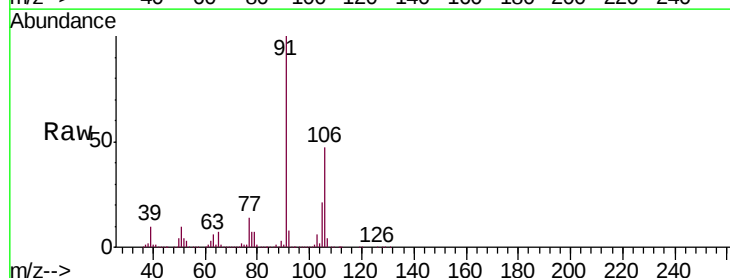
Acq: 23 May 2019 18:07

Tgt Ion: 91 Resp: 6646172

Ion Ratio Lower Upper

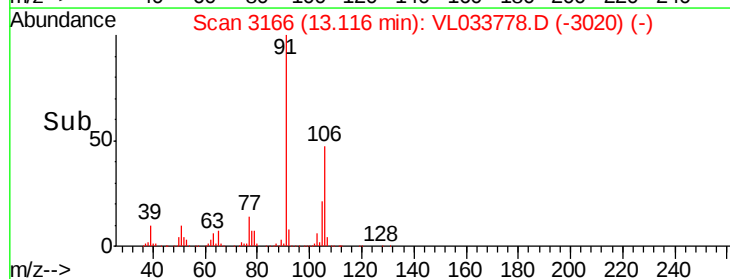
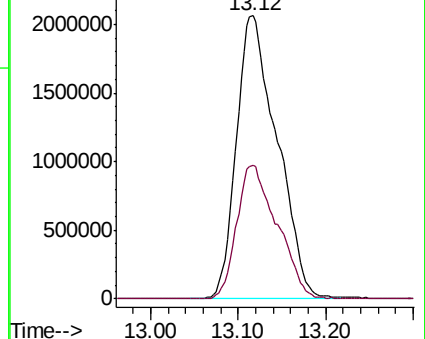
91 100

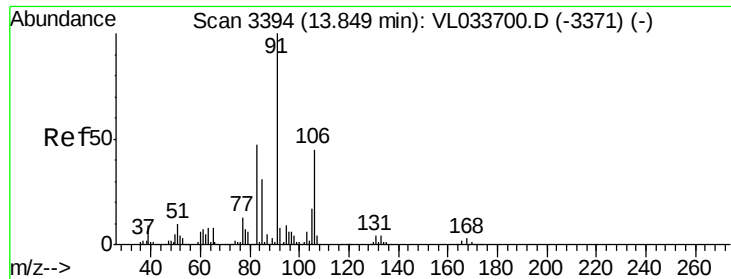
106 47.2 35.8 53.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

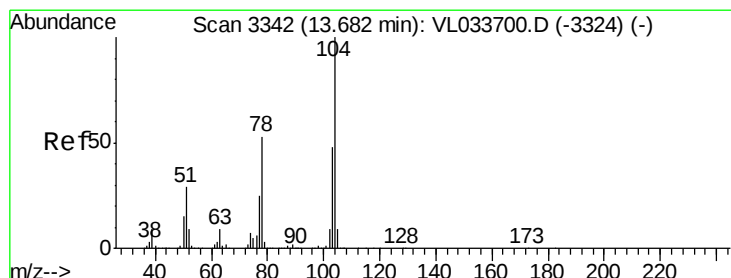
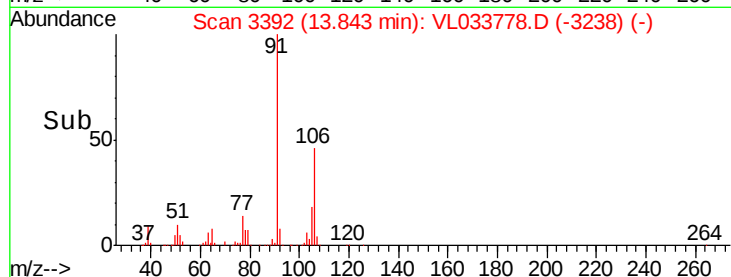
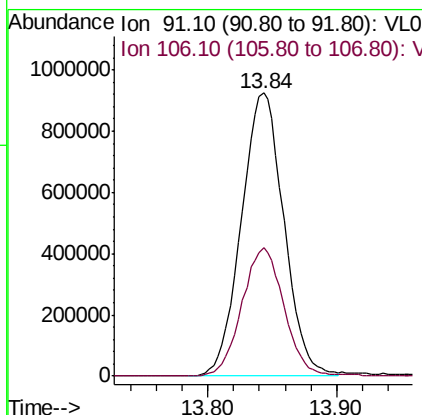
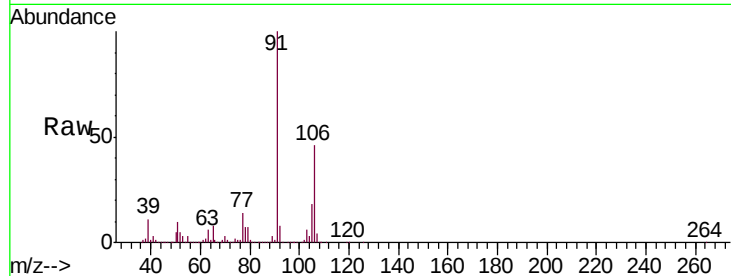




#60
o-Xylene
Concen: 7.533 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

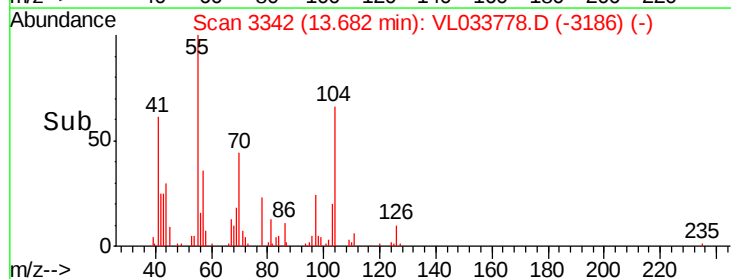
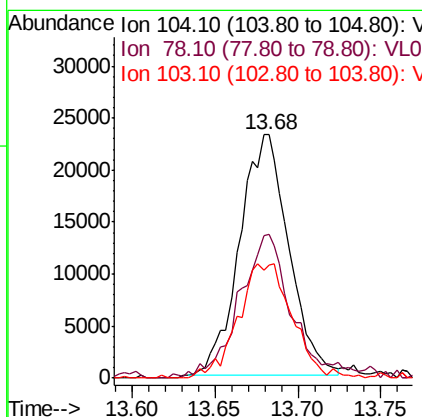
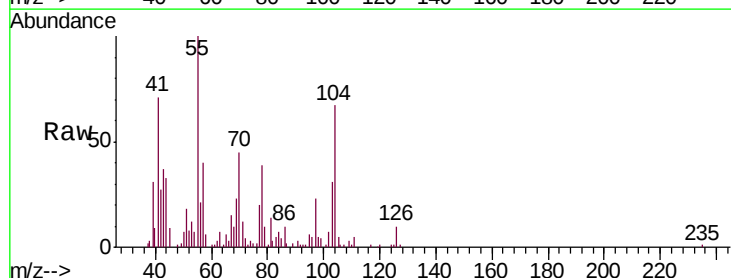
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55

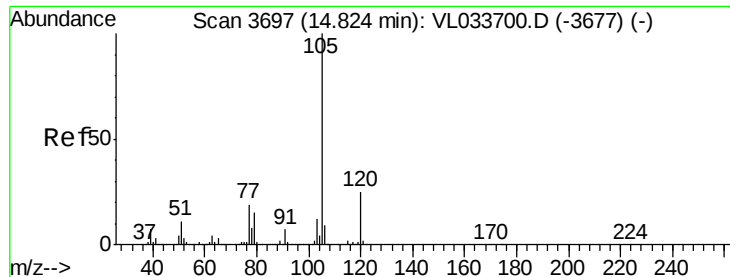
Tgt Ion: 91 Resp: 2120872
Ion Ratio Lower Upper
91 100
106 45.3 21.6 64.8



#61
Styrene
Concen: 0.251 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. 0.00 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

Tgt Ion: 104 Resp: 47600
Ion Ratio Lower Upper
104 100
78 65.7 42.6 64.0#
103 53.0 37.8 56.6





#62

Isopropylbenzene

Concen: 0.144 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

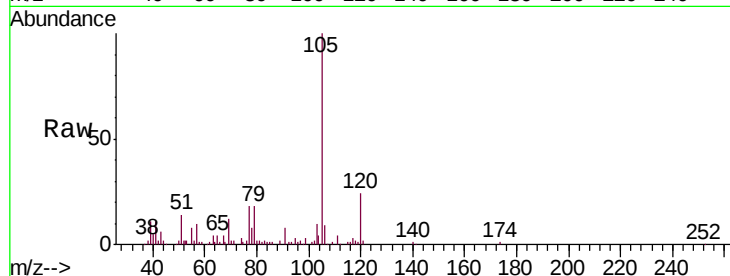
BPS1-SG-3003-55

Tgt Ion:105 Resp: 54700

Ion Ratio Lower Upper

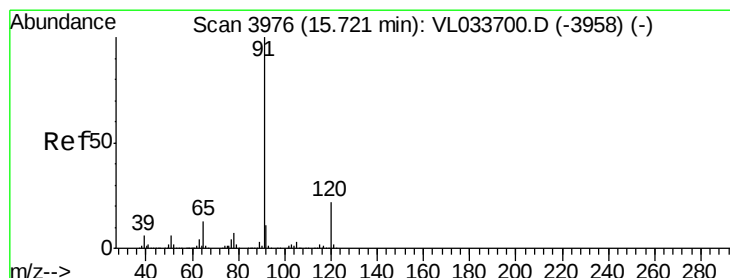
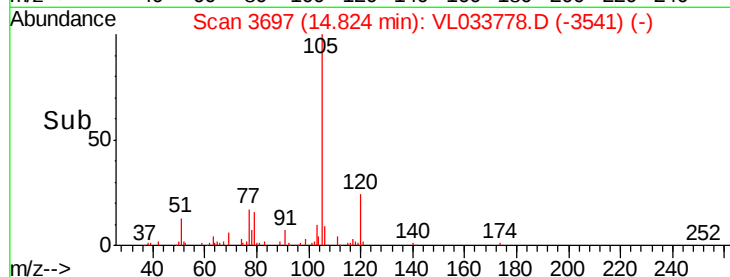
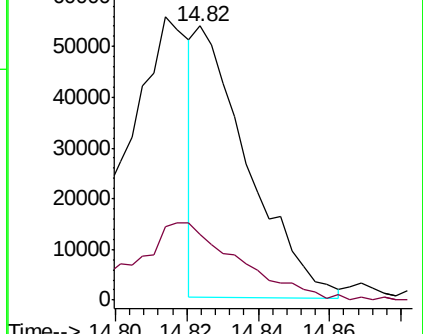
105 100

120 58.4 20.1 30.1#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.482 ppbv

RT: 15.72 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL033778.D

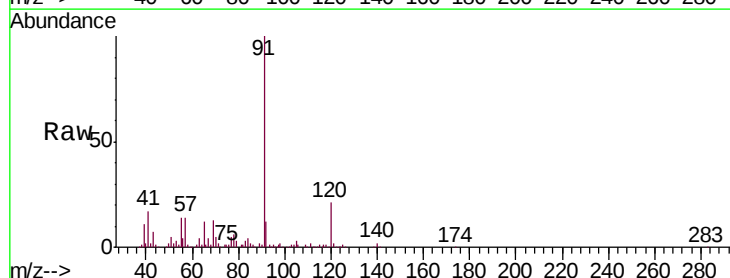
Acq: 23 May 2019 18:07

Tgt Ion:120 Resp: 47316

Ion Ratio Lower Upper

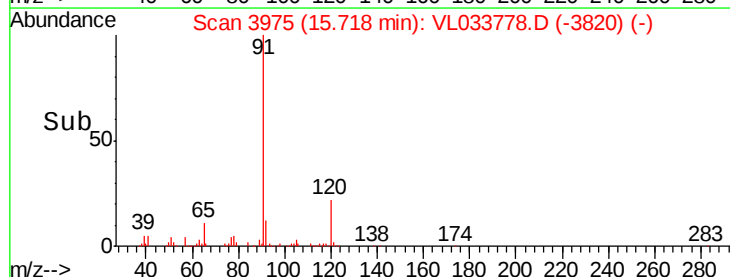
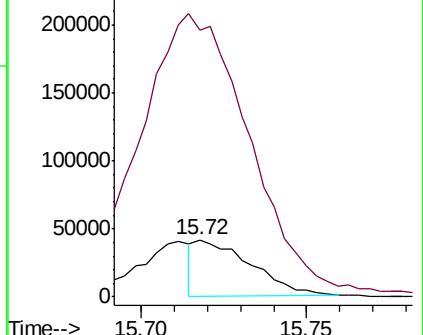
120 100

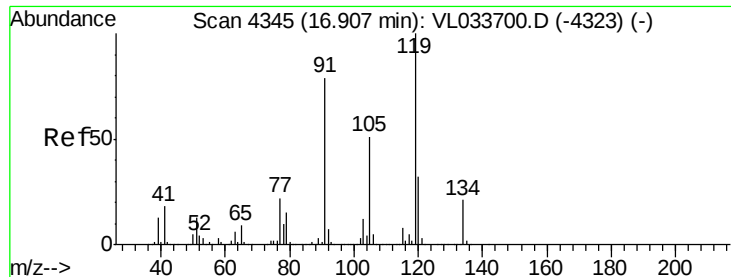
91 1041.3 379.1 568.7#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

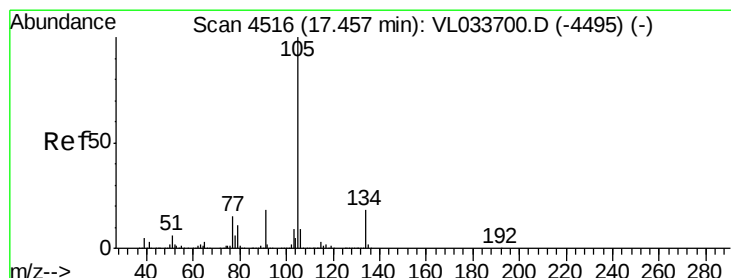
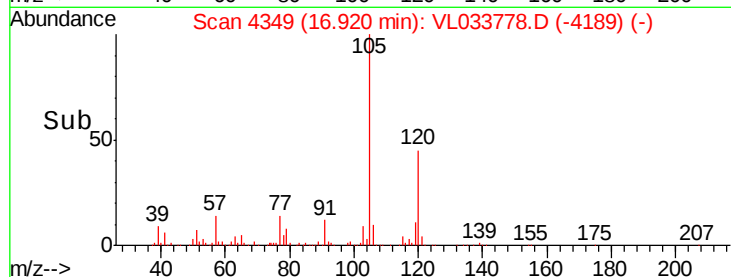
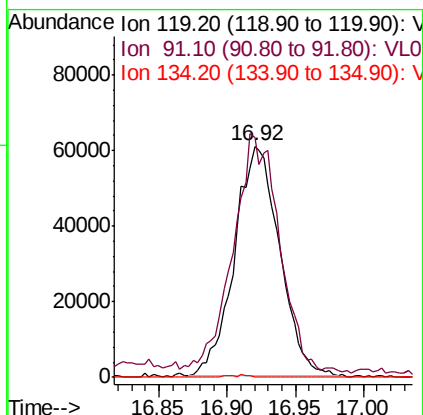
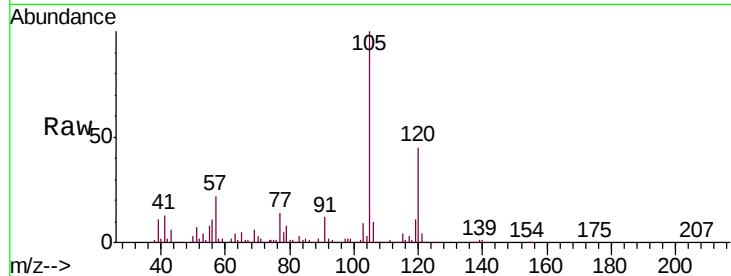




#65
tert-Butylbenzene
Concen: 0.404 ppbv
RT: 16.92 min Scan# 4349
Delta R.T. 0.01 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

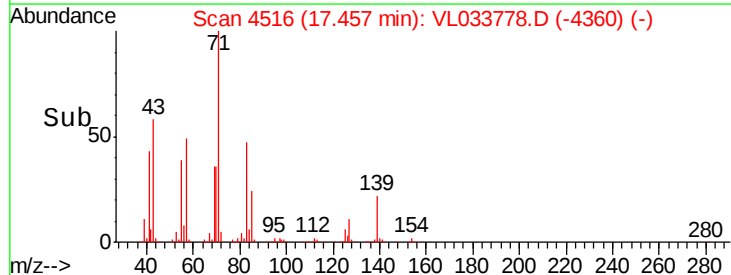
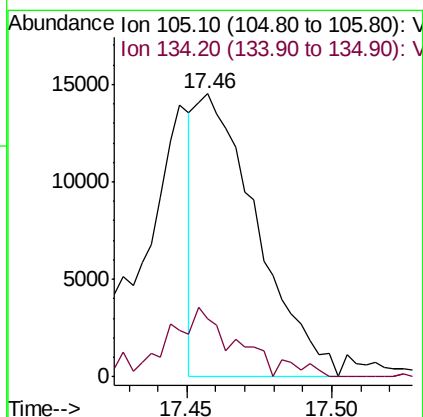
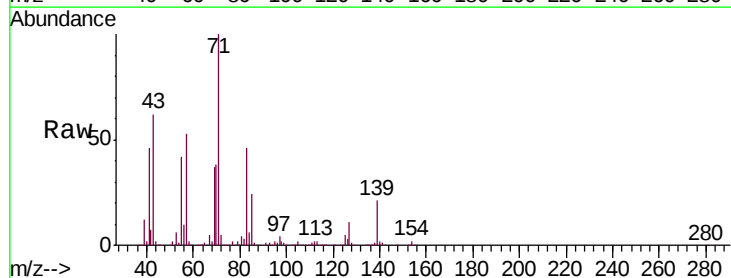
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55

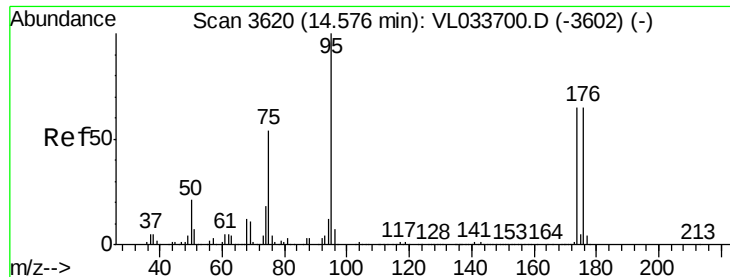
Tgt Ion:119 Resp: 139785
Ion Ratio Lower Upper
119 100
91 107.9 65.3 97.9#
134 0.6 15.7 23.5#



#67
sec-Butylbenzene
Concen: 0.044 ppbv
RT: 17.46 min Scan# 4516
Delta R.T. 0.00 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

Tgt Ion:105 Resp: 21292
Ion Ratio Lower Upper
105 100
134 29.5 14.6 22.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.756 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

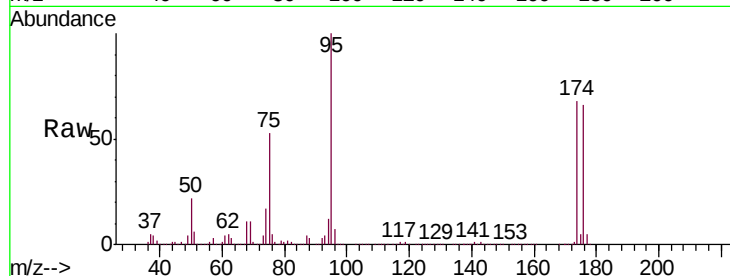
Tgt Ion: 95 Resp: 1907974

Ion Ratio Lower Upper

95 100

174 69.7 53.9 80.9

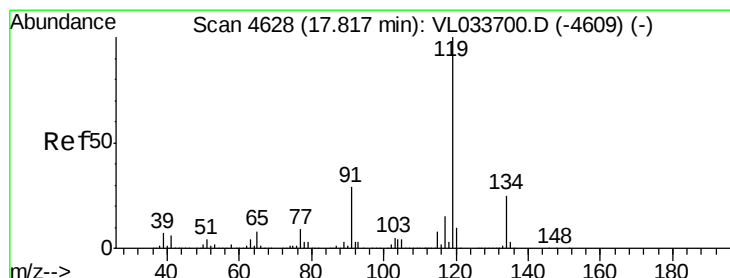
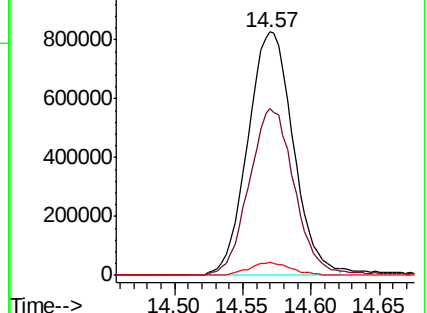
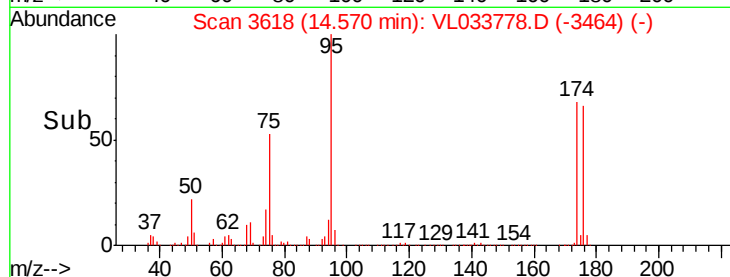
175 5.1 3.8 5.8



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: 0.022 ppbv

RT: 17.82 min Scan# 4628

Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

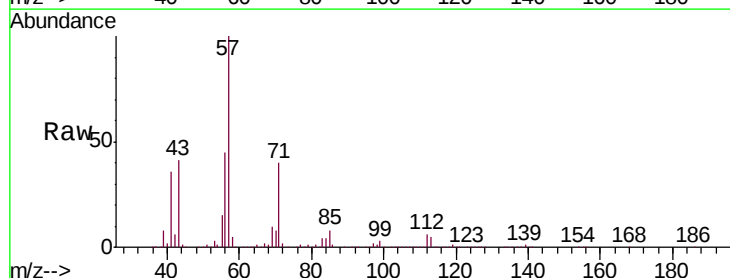
Tgt Ion: 119 Resp: 9000

Ion Ratio Lower Upper

119 100

134 0.0 20.3 30.5#

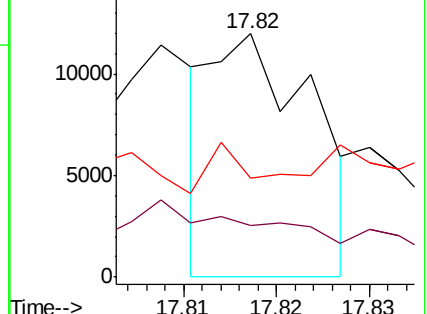
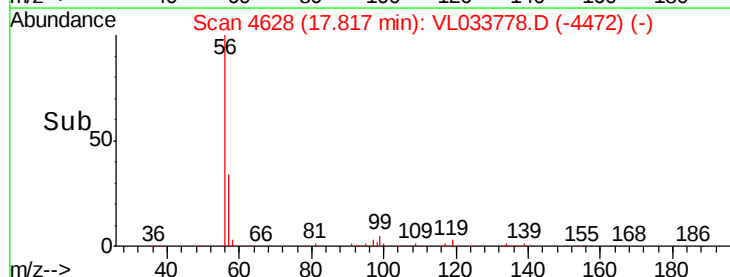
91 96.6 23.1 34.7#

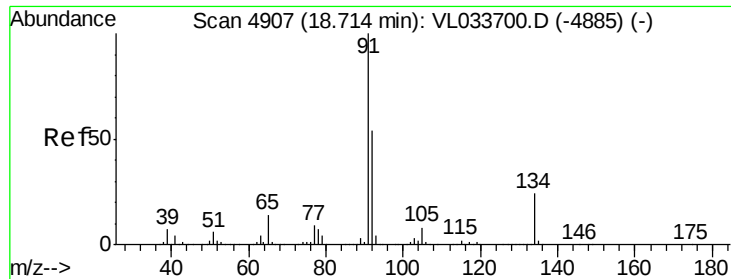


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

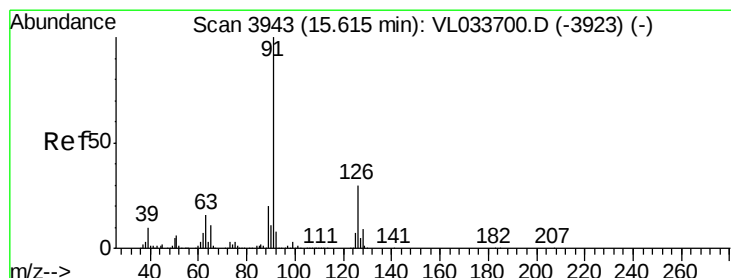
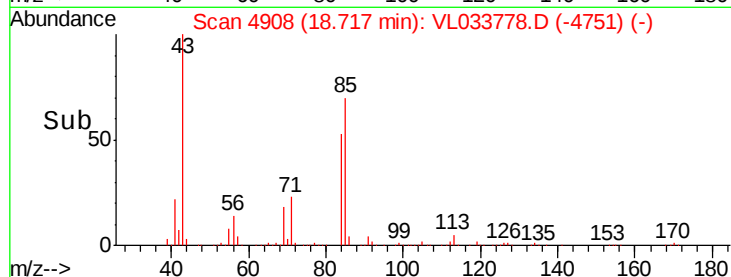
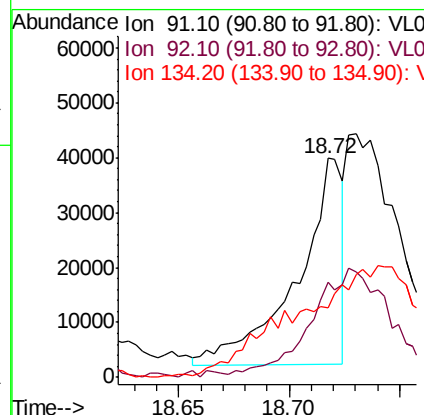
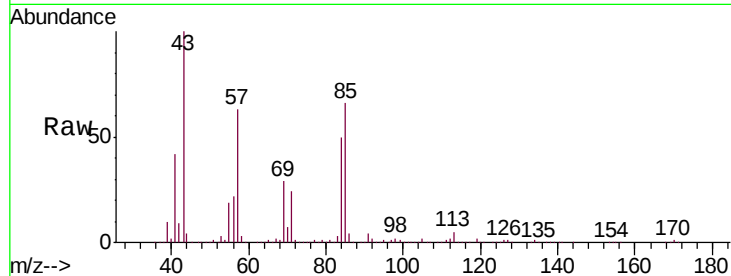




#70
n-Butylbenzene
Concen: 0.125 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. 0.00 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

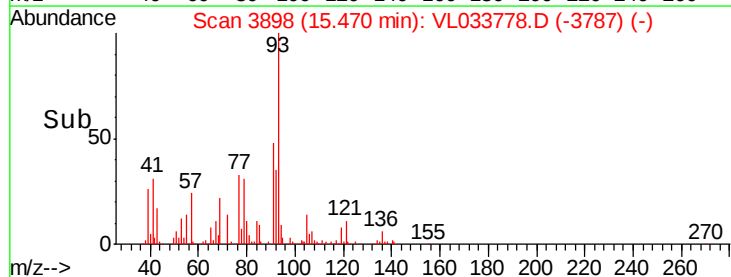
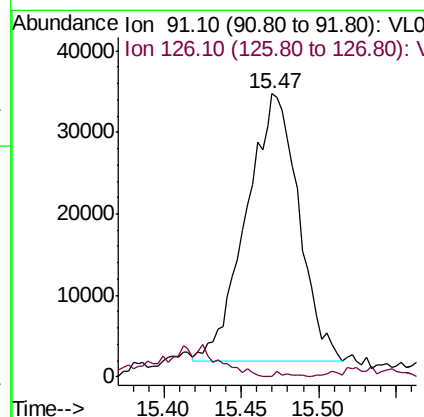
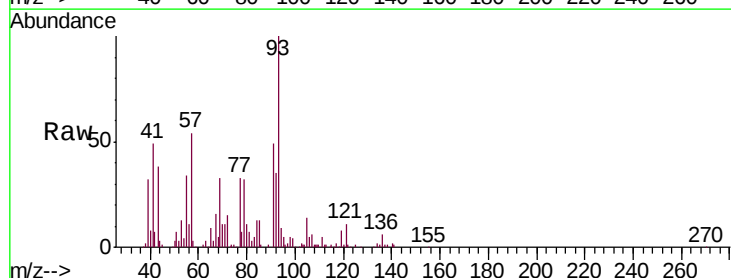
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3003-55

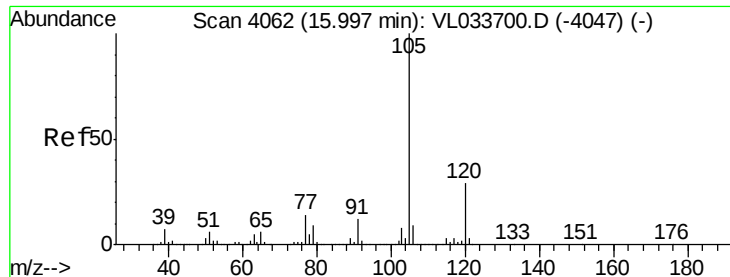
Tgt Ion: 91 Resp: 53727
Ion Ratio Lower Upper
91 100
92 0.0 42.6 63.8#
134 0.0 18.1 27.1#



#71
2-Chlorotoluene
Concen: 0.275 ppbv
RT: 15.47 min Scan# 3898
Delta R.T. -0.14 min
Lab File: VL033778.D
Acq: 23 May 2019 18:07

Tgt Ion: 91 Resp: 77273
Ion Ratio Lower Upper
91 100
126 13.5 12.0 47.8





#72

4-Ethyltoluene

Concen: 1.676 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

Tgt Ion:105 Resp: 539640

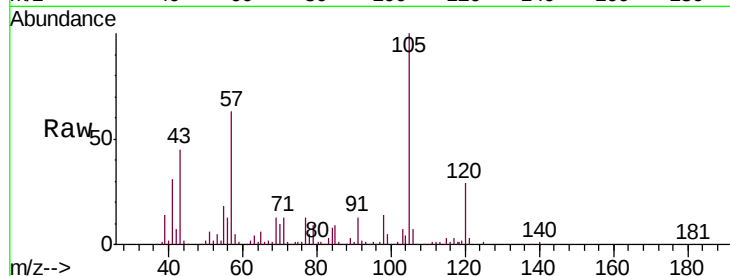
Ion Ratio Lower Upper

105 100

120 29.2 23.1 34.7

91 13.5 10.4 15.6

77 13.7 11.0 16.6

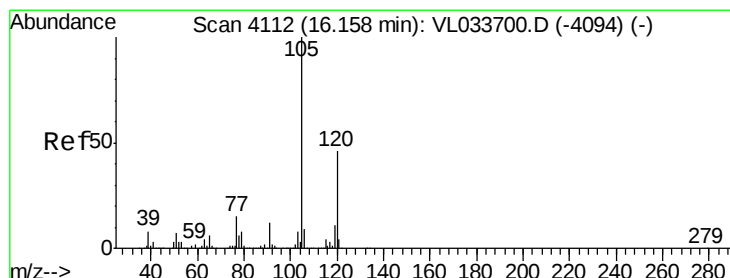
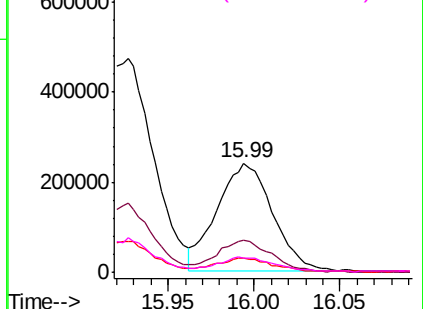
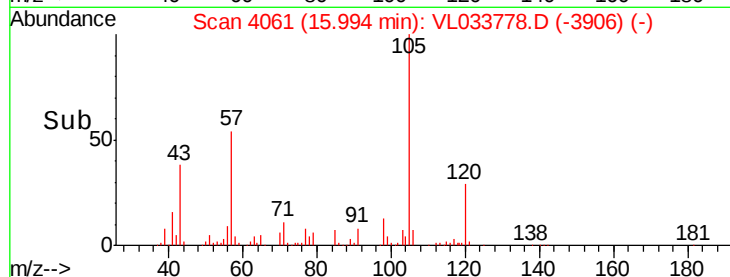


Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.149 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL033778.D

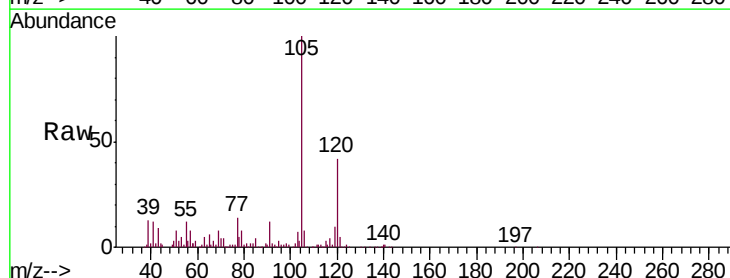
Acq: 23 May 2019 18:07

Tgt Ion:105 Resp: 360865

Ion Ratio Lower Upper

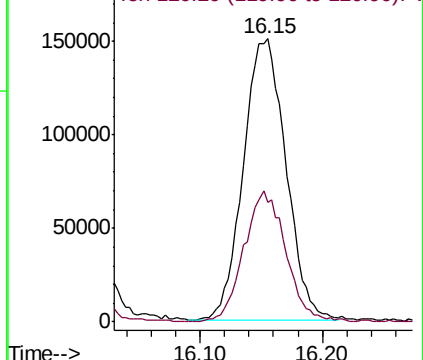
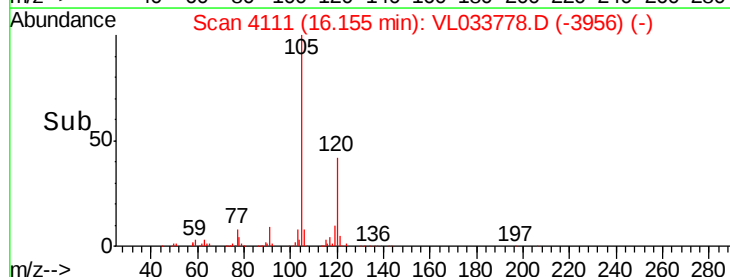
105 100

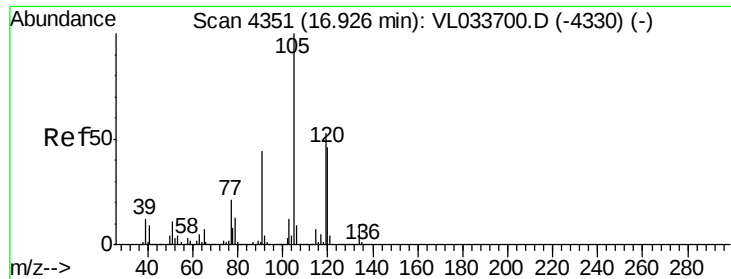
120 42.7 37.0 55.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

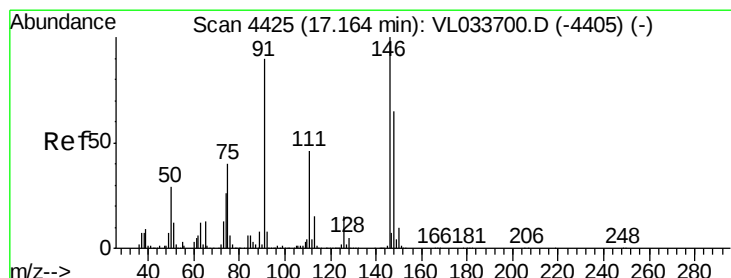
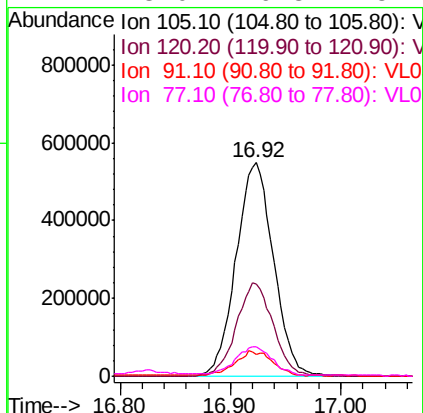
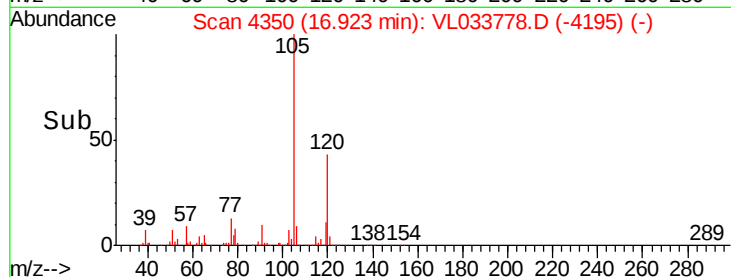
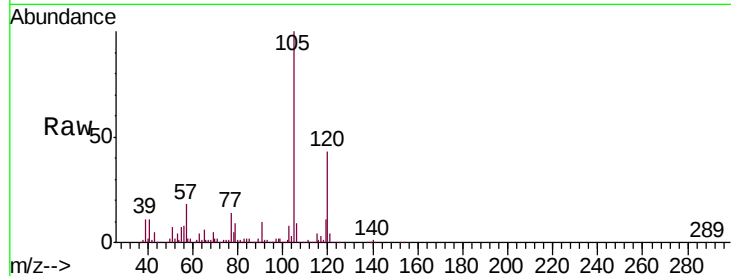




#74
 1,2,4-Trimethylbenzene
 Concen: 3.773 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.00 min
 Lab File: VL033778.D
 Acq: 23 May 2019 18:07

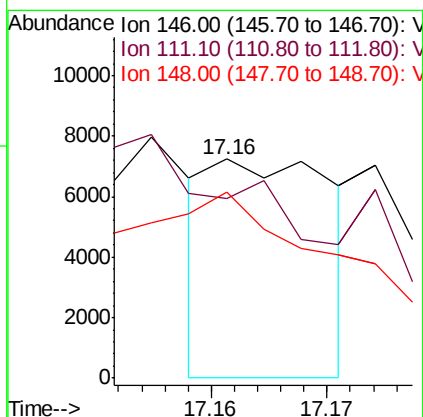
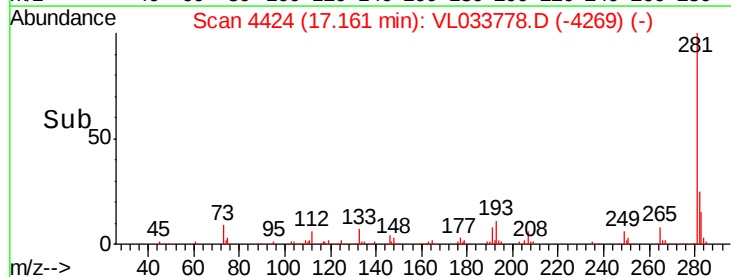
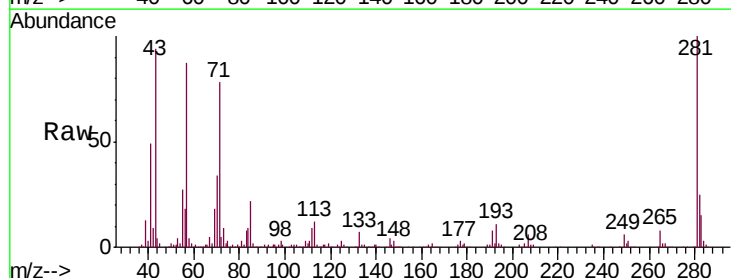
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3003-55

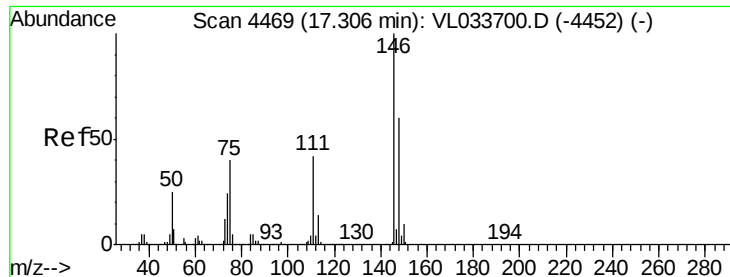
Tgt Ion:105 Resp: 1289768
 Ion Ratio Lower Upper
 105 100
 120 42.9 36.8 55.2
 91 9.9 35.4 53.0#
 77 13.0 16.8 25.2#



#75
 1,3-Dichlorobenzene
 Concen: 0.025 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.00 min
 Lab File: VL033778.D
 Acq: 23 May 2019 18:07

Tgt Ion:146 Resp: 5286
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.9 68.8#
 148 338.8 32.0 96.2#





#76

1,4-Dichlorobenzene

Concen: 0.065 ppbv

RT: 17.30 min Scan# 4467

Delta R.T. -0.01 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

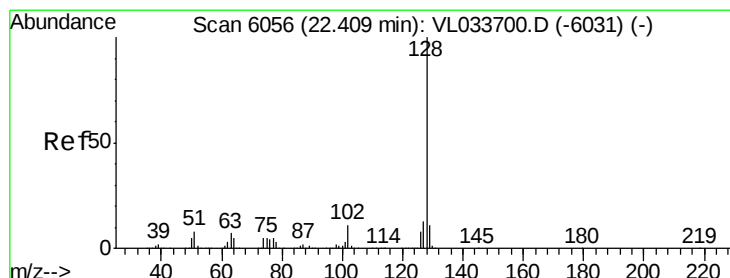
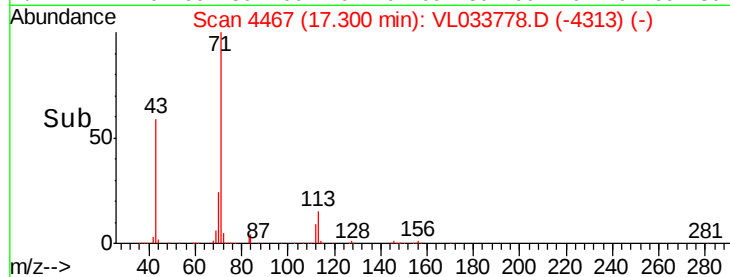
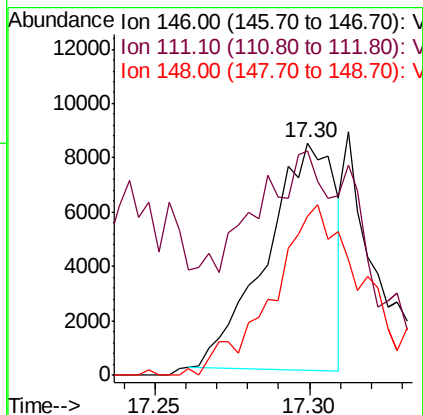
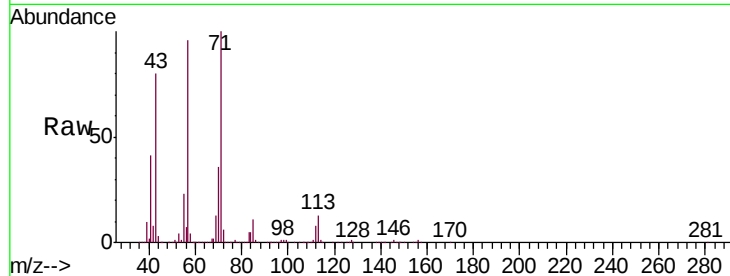
Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

Tgt Ion:	146	Resp:	12925
Ion	Ratio	Lower	Upper
146	100		
111	123.3	21.9	65.8#
148	102.5	32.1	96.3#



#79

Naphthalene

Concen: 0.217 ppbv

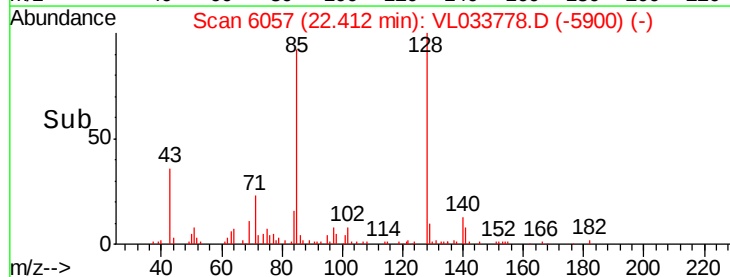
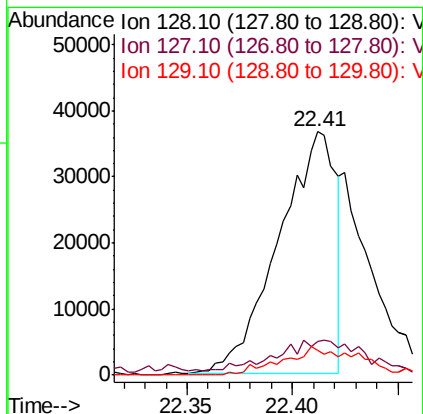
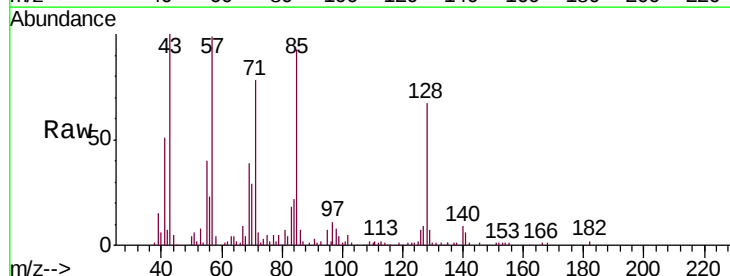
RT: 22.41 min Scan# 6057

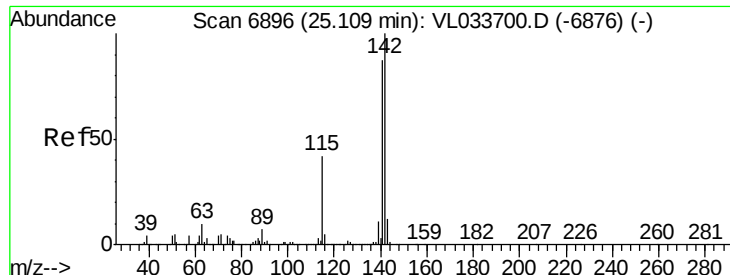
Delta R.T. 0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Tgt Ion:	128	Resp:	68905
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.6	16.0
129	10.2	8.9	13.3





#80

Naphthalene, 2-methyl-

Concen: 0.043 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL033778.D

Acq: 23 May 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3003-55

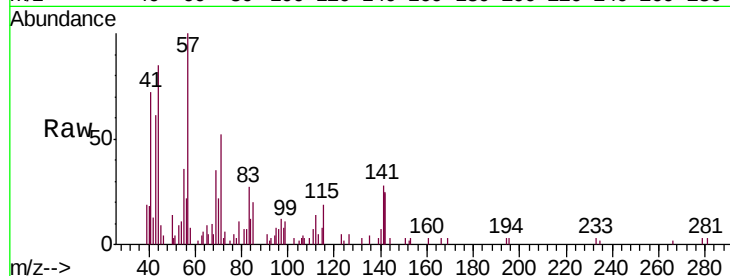
Tgt Ion: 142 Resp: 5181

Ion Ratio Lower Upper

142 100

141 114.7 67.2 100.8#

115 65.2 34.1 51.1#



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

