

Data File : VL032262.D

Acq On : 18 Jul 2018 11:16

Operator : SY/AP

Sample : VSTDIC0.5

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Quant Time: Jul 18 12:40:13 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071818AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 09:58:24 2018

QLast Update : Wed Jul 18 09:58:24 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1773718	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3812050	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4182192	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3291464	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.13	85	162481	0.636	ppbv	96
3) Chlorodifluoromethane	3.06	51	107094	0.491	ppbv	99
4) Chloromethane	3.22	50	61161	0.493	ppbv	98
5) Vinyl Chloride	3.35	62	57353	0.470	ppbv	91
6) Bromomethane	3.57	94	31089	0.457	ppbv	89
7) Chloroethane	3.66	64	19424	0.462	ppbv #	88
8) Dichlorotetrafluoroethane	3.27	85	133169	0.475	ppbv	98
9) Propene	3.08	41	40161	0.432	ppbv	99
10) Heptane	8.33	43	65061	0.247	ppbv #	27
11) Trichlorofluoromethane	4.07	101	123482	0.505	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.62	101	79270	0.508	ppbv	100
13) Ethanol	3.71	45	5311	0.198	ppbv #	37
14) Bromoethene	3.85	108	33142	0.450	ppbv #	98
15) Acetone	3.98	43	97063	0.472	ppbv	96
16) 1,3-Butadiene	3.42	39	40250	0.387	ppbv	87
18) 1,1-Dichloroethene	4.41	96	34855	0.480	ppbv	91
19) Isopropyl Alcohol	4.11	45	63899	0.473	ppbv #	94
20) Methylene Chloride	4.48	84	39569	0.567	ppbv	92
21) Allyl Chloride	4.54	41	59457	0.493	ppbv	95
22) trans-1,2-Dichloroethene	5.04	96	35669	0.516	ppbv	91
23) Vinyl Acetate	5.23	43	152190	0.445	ppbv #	96
24) 1,1-Dichloroethane	5.16	63	121817	0.507	ppbv	98
25) Ethyl Acetate	5.85	43	208008	0.511	ppbv	99
26) Hexane	5.85	57	91457	0.492	ppbv	95
27) Carbon Disulfide	4.69	76	70509	0.424	ppbv #	77
28) Methyl tert-Butyl Ether	5.20	73	125527	0.429	ppbv	99
29) Chloroform	5.92	83	139264	0.485	ppbv	98
30) Cyclohexane	7.33	84	35569	0.217	ppbv #	17
31) cis-1,2-Dichloroethene	5.71	61	80886	0.436	ppbv	96
32) 1,1,1-Trichloroethane	6.70	97	135034	0.485	ppbv	98
34) 2-Butanone	5.41	43	128770	0.496	ppbv	98
35) Carbon Tetrachloride	7.22	117	131260	0.509	ppbv	92
36) Benzene	7.09	78	181617	0.479	ppbv	97
37) 1,2-Dichloroethane	6.49	62	113579	0.548	ppbv	100
38) Trichloroethene	8.04	130	58250	0.448	ppbv	90
39) 1,2-Dichloropropane	7.82	63	73517	0.488	ppbv	96
40) 1,4-Dioxane	8.07	88	2341	0.045	ppbv #	11
41) Tetrahydrofuran	6.25	42	66008	0.454	ppbv	97
42) Bromodichloromethane	8.00	83	132786	0.450	ppbv	99
43) Methyl Methacrylate	8.22	69	32299	0.221	ppbv #	1
44) 2,2,4-Trimethylpentane	8.07	57	168479	0.259	ppbv #	43

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ClientSampleId :
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Quant Time: Jul 18 12:40:13 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18 09:58:24 2018
QLast Update : Wed Jul 18 09:58:24 2018
Response via : Initial Calibration

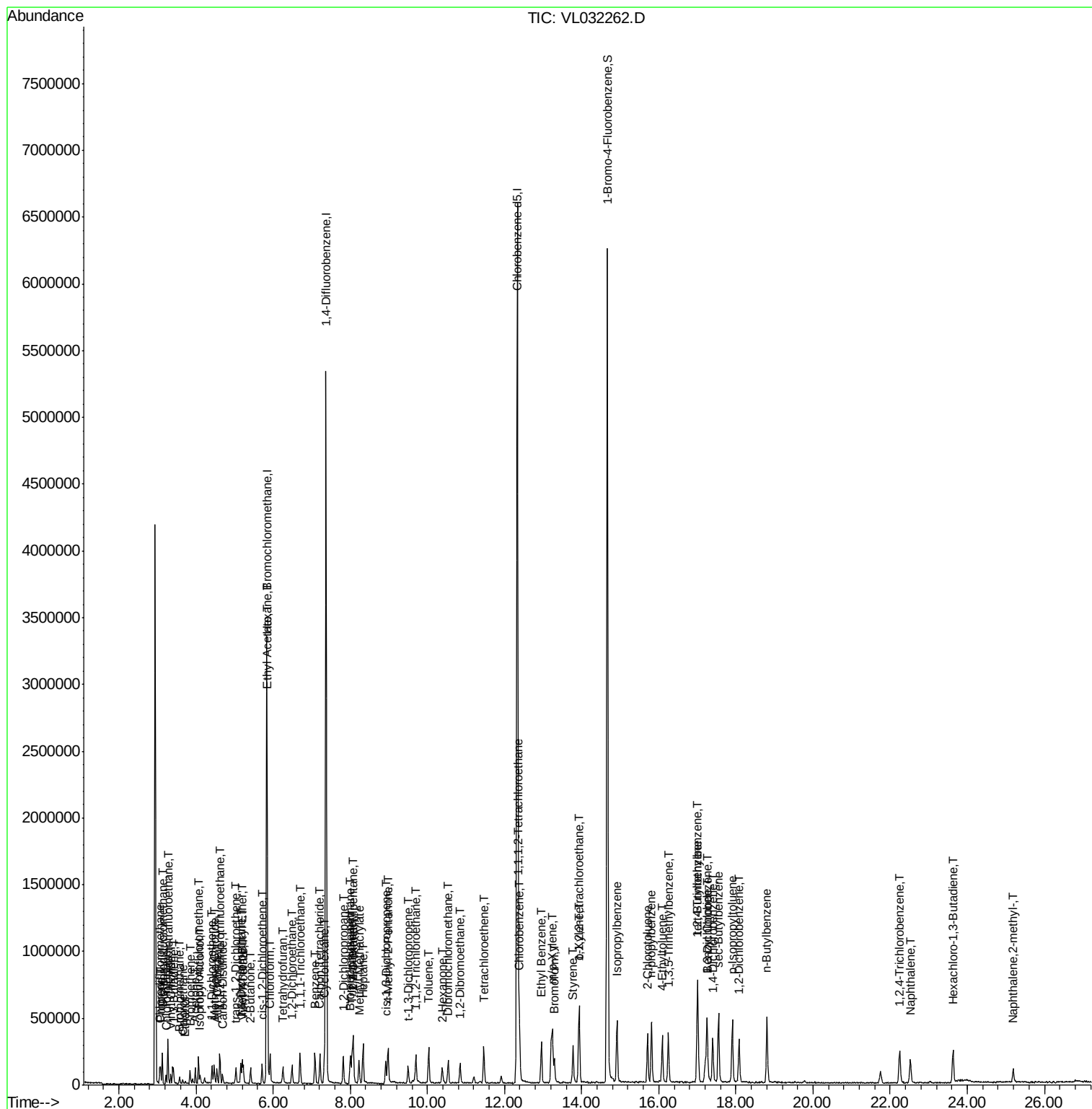
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.50	75	38761	0.222	ppbv	94
46) cis-1,3-Dichloropropene	8.91	75	40794	0.172	ppbv	90
47) 1,1,2-Trichloroethane	9.70	97	15413	0.092	ppbv #	63
48) Dibromochloromethane	10.54	129	101652	0.406	ppbv	99
49) Bromoform	13.29	173	90629	0.452	ppbv	97
50) 4-Methyl-2-Pentanone	8.97	43	107049	0.238	ppbv #	38
51) 2-Hexanone	10.39	43	121360	0.323	ppbv #	94
52) Tetrachloroethene	11.46	164	33398	0.239	ppbv	95
53) Toluene	10.03	91	199154	0.445	ppbv	99
54) 1,2-Dibromoethane	10.85	107	114908	0.463	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.37	131	97942	0.539	ppbv #	1
57) Chlorobenzene	12.39	112	181807	0.514	ppbv #	94
58) Ethyl Benzene	12.95	91	261805	0.430	ppbv #	88
59) m/p-Xylene	13.24	91	215742	0.431	ppbv #	14
60) o-Xylene	13.94	91	248716	0.503	ppbv	99
61) Styrene	13.78	104	157974	0.426	ppbv	100
62) Isopropylbenzene	14.92	105	356202	0.514	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.92	83	222225	0.552	ppbv	98
64) n-propylbenzene	15.81	120	87769	0.500	ppbv	83
65) tert-Butylbenzene	16.99	119	138731	0.239	ppbv #	16
66) Benzyl Chloride	17.25	91	128843	0.438	ppbv	97
67) sec-Butylbenzene	17.55	105	457237	0.539	ppbv	99
69) p-Isopropyltoluene	17.91	119	341344	0.517	ppbv	99
70) n-Butylbenzene	18.80	91	370064	0.507	ppbv	97
71) 2-Chlorotoluene	15.71	91	270420	0.496	ppbv	98
72) 4-Ethyltoluene	16.09	105	259331	0.467	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.25	105	266868	0.517	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	303677	0.576	ppbv	94
75) 1,3-Dichlorobenzene	17.26	146	76120	0.242	ppbv #	1
76) 1,4-Dichlorobenzene	17.40	146	167771	0.544	ppbv	99
77) 1,2-Dichlorobenzene	18.08	146	94872	0.303	ppbv #	22
78) Hexachloro-1,3-Butadiene	23.63	225	37597	0.386	ppbv #	41
79) Naphthalene	22.53	128	203974	0.576	ppbv	99
80) Naphthalene,2-methyl-	25.20	142	59497	0.526	ppbv	96
81) 1,2,4-Trichlorobenzene	22.25	180	103108	0.582	ppbv	96

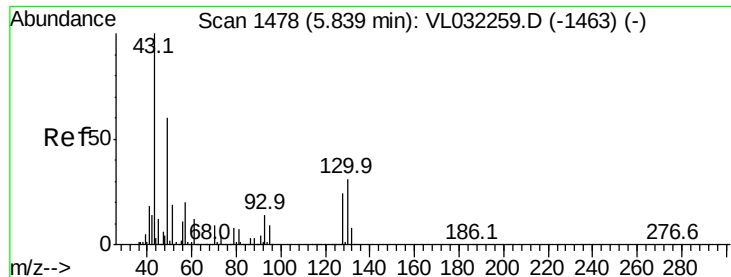
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

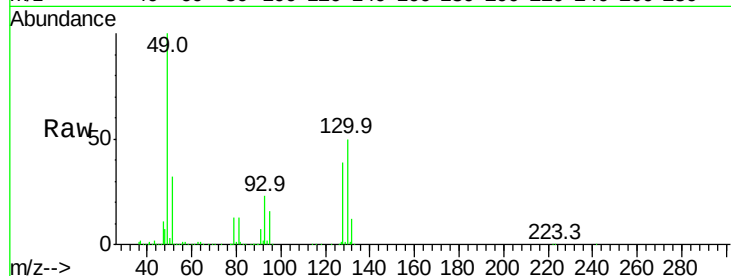
Tgt Ion: 49 Resp: 1773718

Ion Ratio Lower Upper

49 100

128 40.7 20.1 60.2

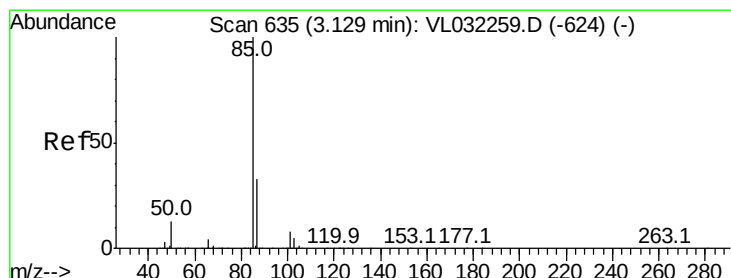
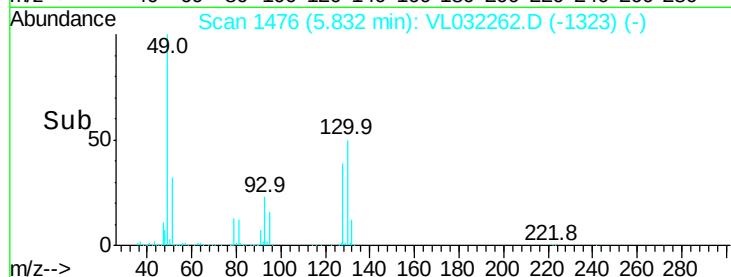
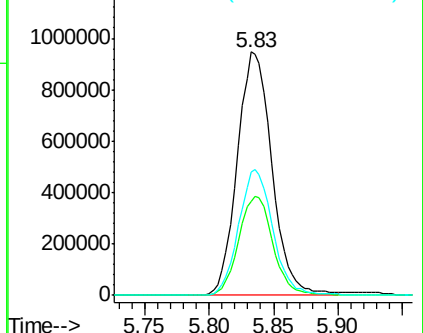
130 51.5 25.9 77.6



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: 0.636 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032262.D

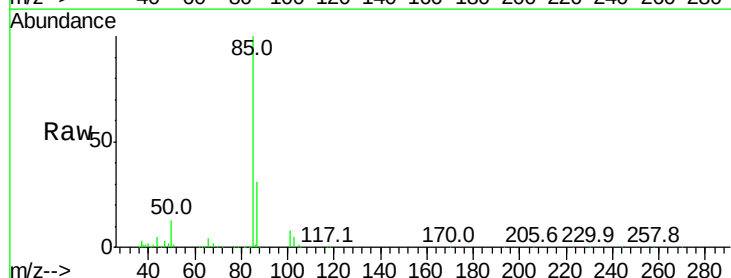
Acq: 18 Jul 2018 11:16

Tgt Ion: 85 Resp: 162481

Ion Ratio Lower Upper

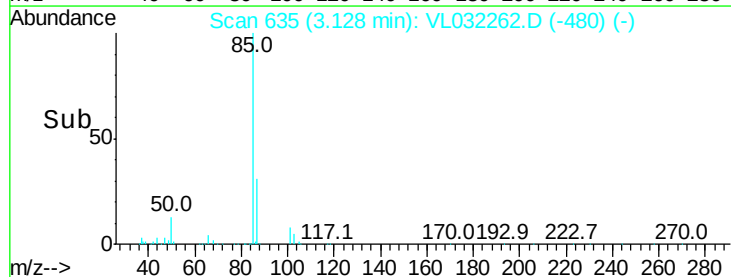
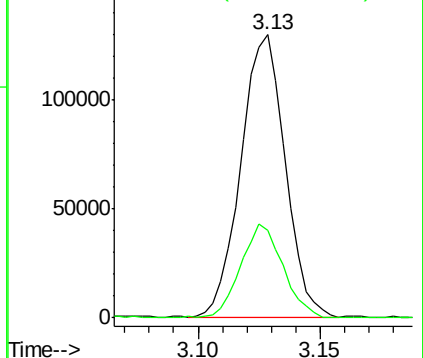
85 100

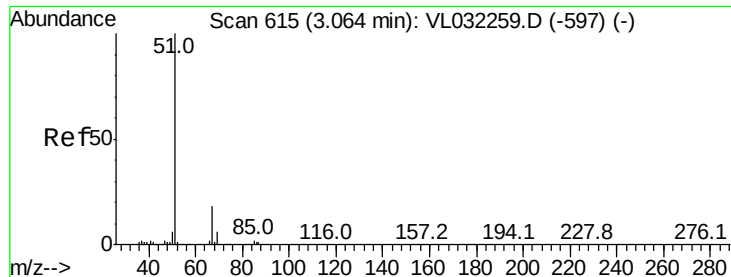
87 30.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.491 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

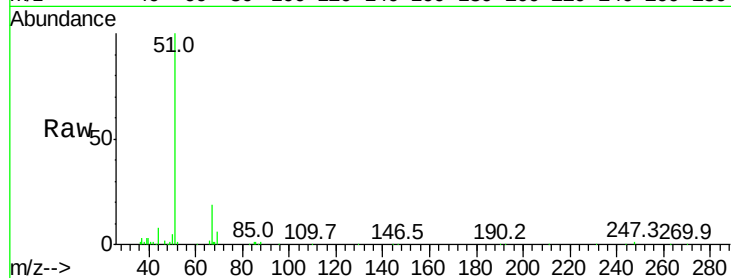
VSTDIC0.5

Tgt Ion: 51 Resp: 107094

Ion Ratio Lower Upper

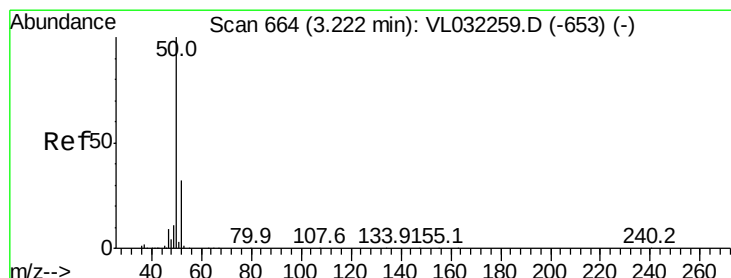
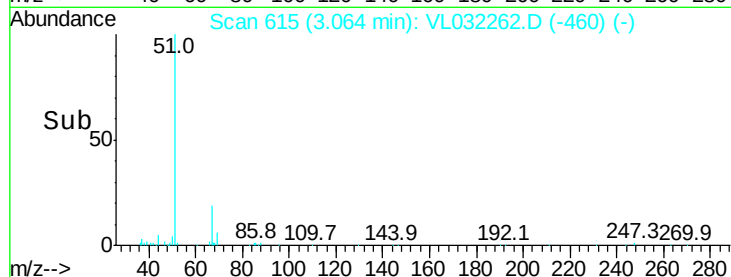
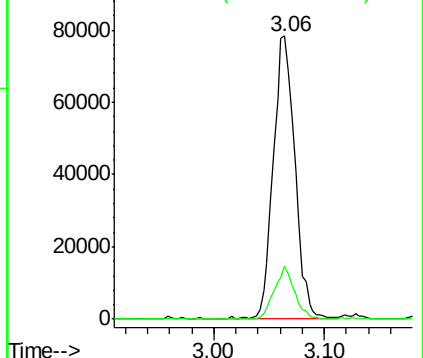
51 100

67 17.3 14.2 21.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.493 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032262.D

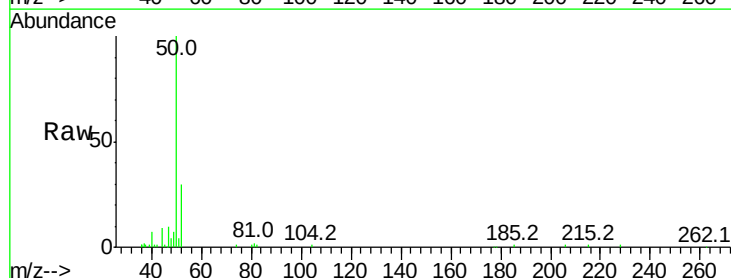
Acq: 18 Jul 2018 11:16

Tgt Ion: 50 Resp: 61161

Ion Ratio Lower Upper

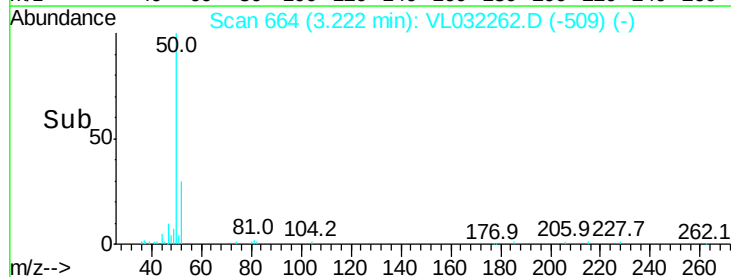
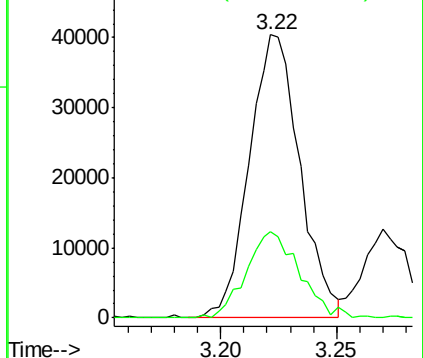
50 100

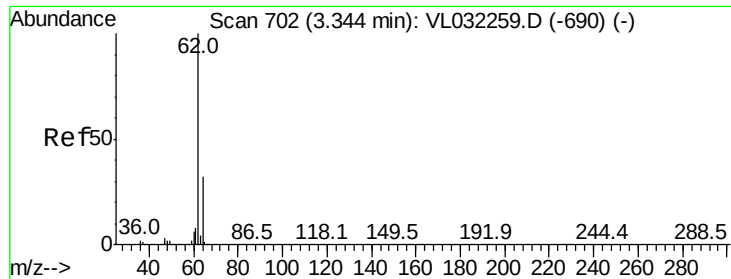
52 30.4 25.3 37.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.470 ppbv

RT: 3.35 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

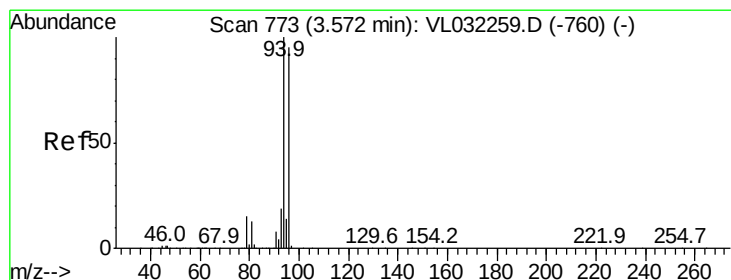
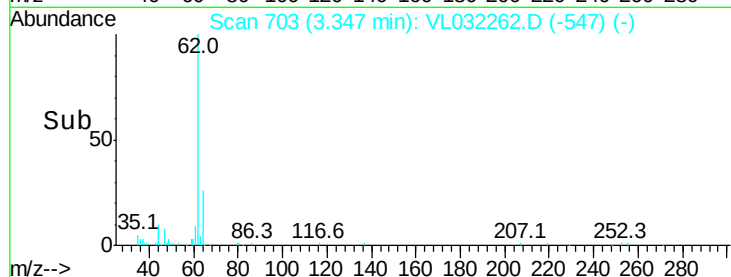
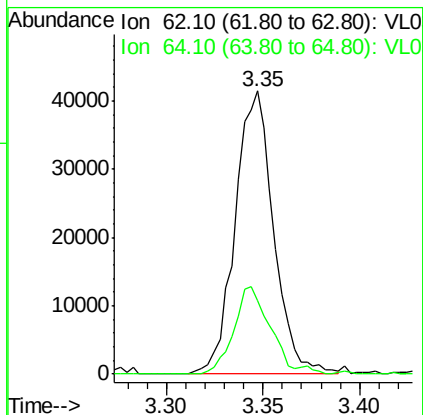
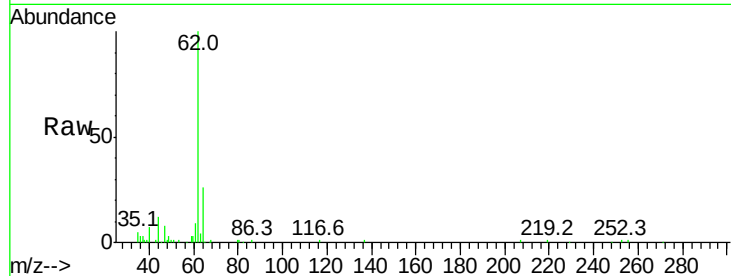
VSTDIC0.5

Tgt Ion: 62 Resp: 57353

Ion Ratio Lower Upper

62 100

64 26.4 25.3 37.9



#6

Bromomethane

Concen: 0.457 ppbv

RT: 3.57 min Scan# 773

Delta R.T. -0.00 min

Lab File: VL032262.D

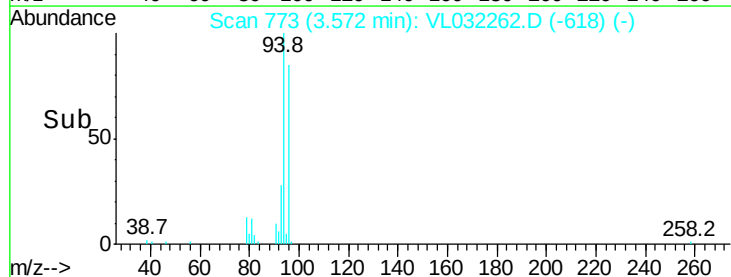
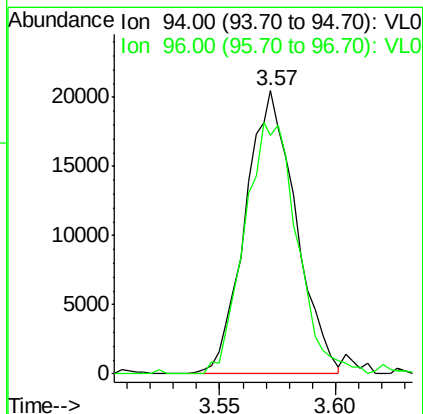
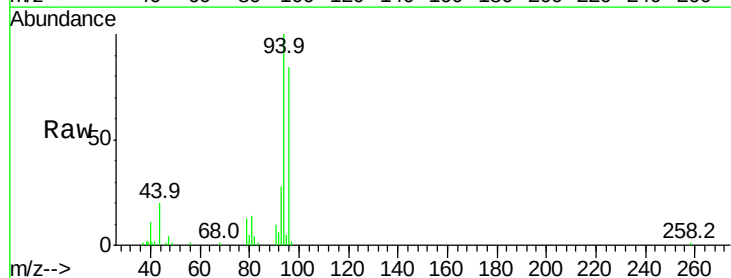
Acq: 18 Jul 2018 11:16

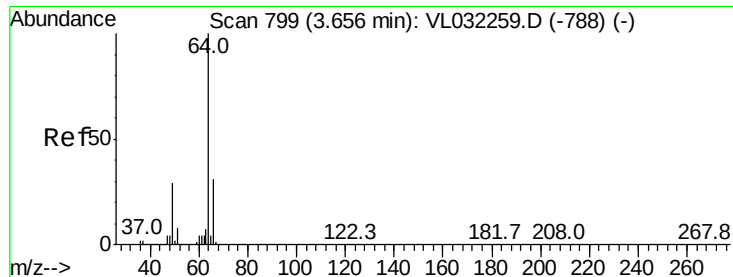
Tgt Ion: 94 Resp: 31089

Ion Ratio Lower Upper

94 100

96 84.1 76.1 114.1





#7

Chloroethane

Concen: 0.462 ppbv

RT: 3.66 min Scan# 800

Delta R.T. 0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

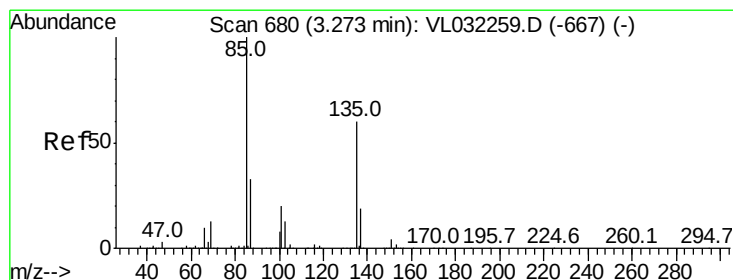
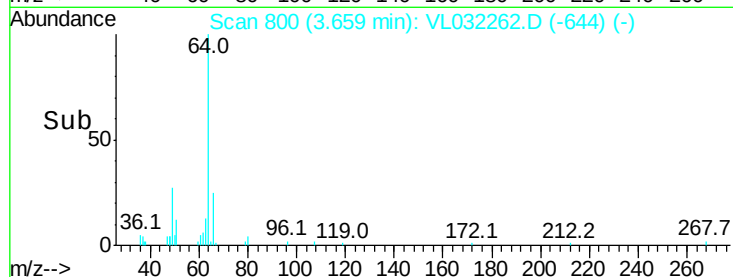
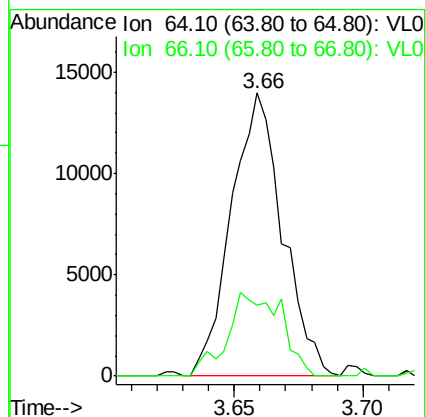
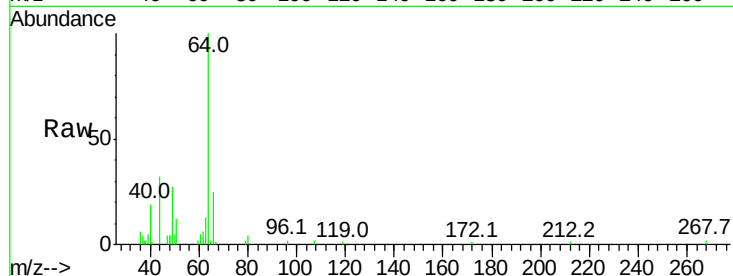
VSTDIC0.5

Tgt Ion: 64 Resp: 19424

Ion Ratio Lower Upper

64 100

66 24.4 25.0 37.4#



#8

Dichlorotetrafluoroethane

Concen: 0.475 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032262.D

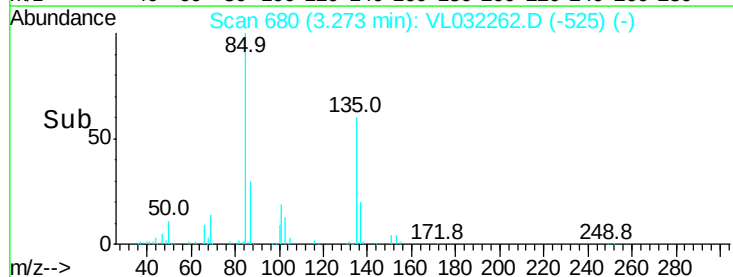
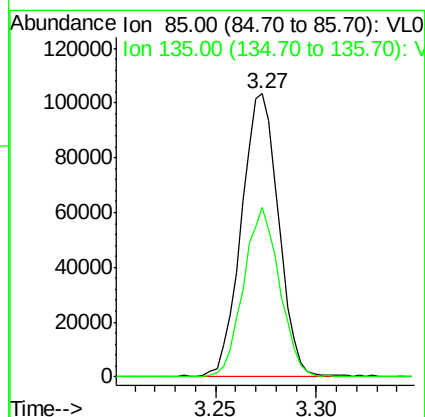
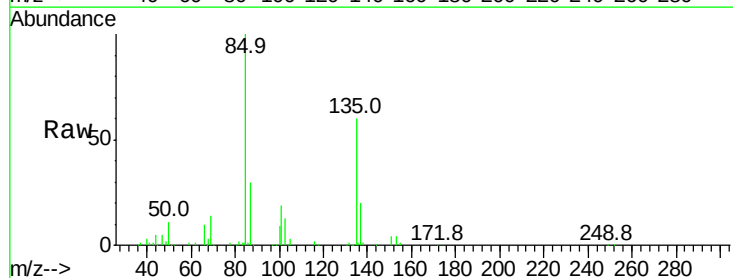
Acq: 18 Jul 2018 11:16

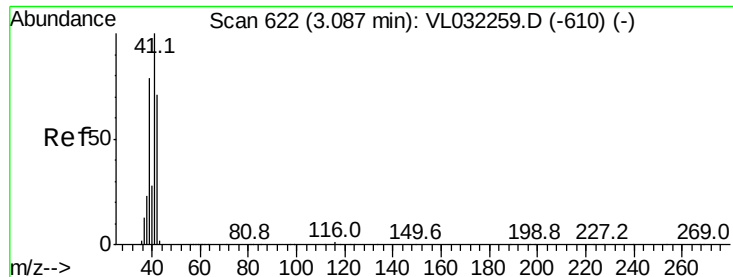
Tgt Ion: 85 Resp: 133169

Ion Ratio Lower Upper

85 100

135 58.4 47.8 71.8





#9

Propene

Concen: 0.432 ppbv

RT: 3.08 min Scan# 621

Delta R.T. -0.00 min

Lab File: VL032262.D

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Instrument :

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ClientSampleId :

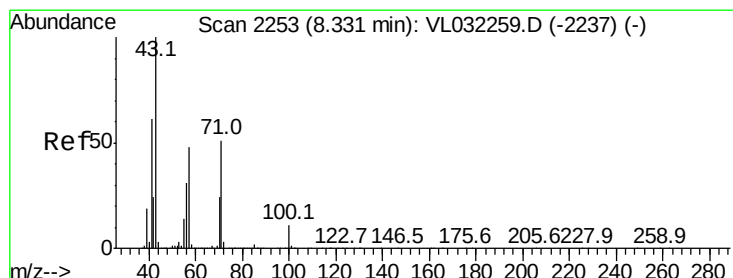
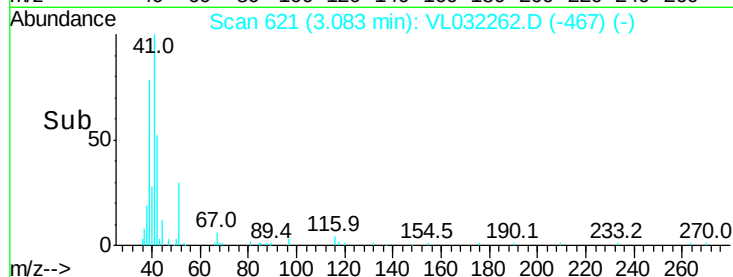
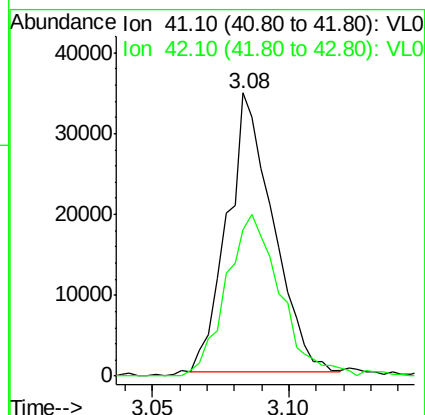
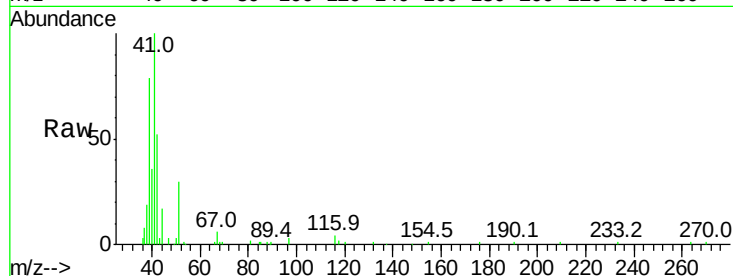
VSTDIC0.5

Tgt Ion: 41 Resp: 40161

Ion Ratio Lower Upper

41 100

42 69.1 56.2 84.4



#10

Heptane

Concen: 0.247 ppbv

RT: 8.33 min Scan# 2252

Delta R.T. -0.00 min

Lab File: VL032262.D

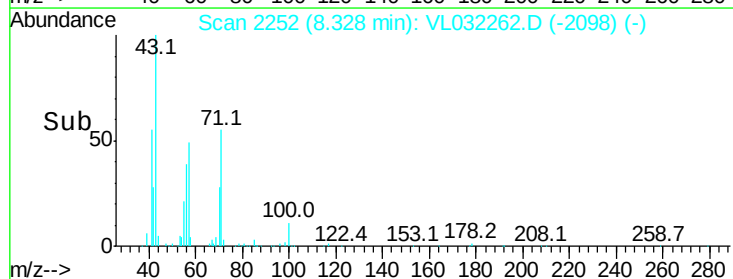
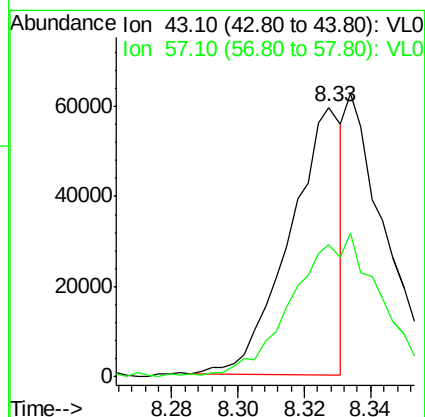
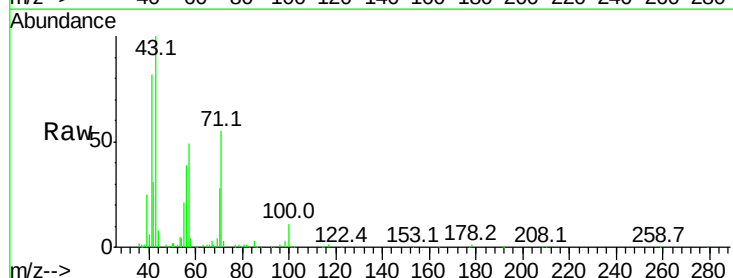
Acq: 18 Jul 2018 11:16

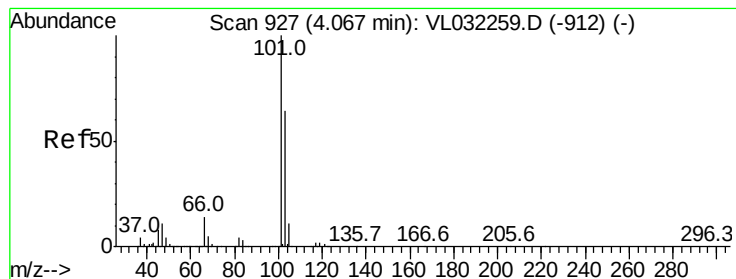
Tgt Ion: 43 Resp: 65061

Ion Ratio Lower Upper

43 100

57 0.0 39.9 59.9#





#11

Trichlorofluoromethane

Concen: 0.505 ppbv

RT: 4.07 min Scan# 927

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

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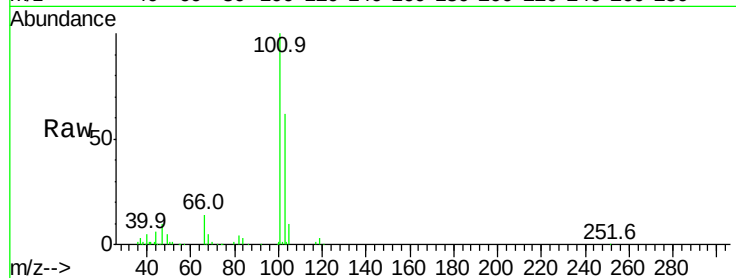
VSTDIC0.5

Tgt Ion:101 Resp: 123482

Ion Ratio Lower Upper

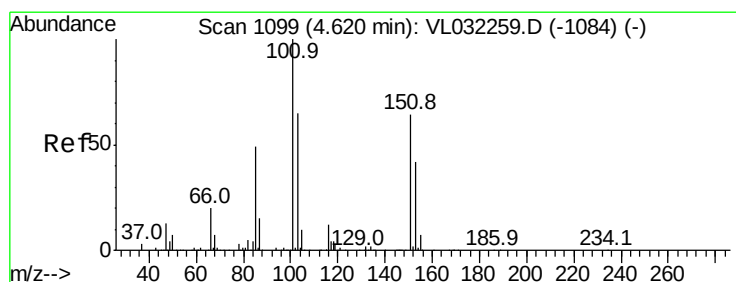
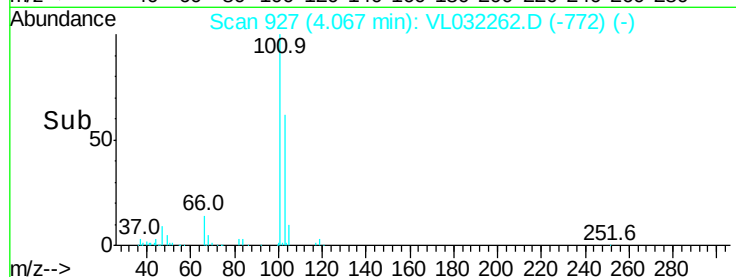
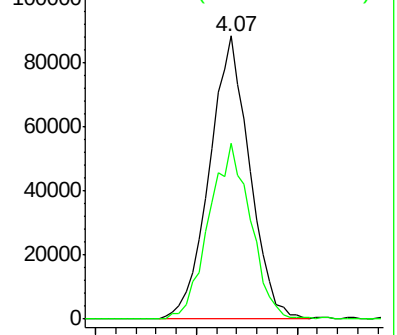
101 100

103 62.3 51.5 77.3



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: 0.508 ppbv

RT: 4.62 min Scan# 1099

Delta R.T. -0.00 min

Lab File: VL032262.D

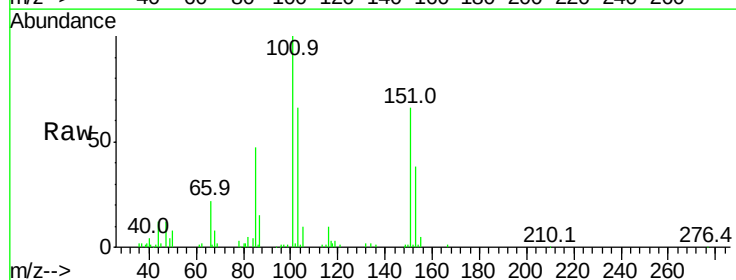
Acq: 18 Jul 2018 11:16

Tgt Ion:101 Resp: 79270

Ion Ratio Lower Upper

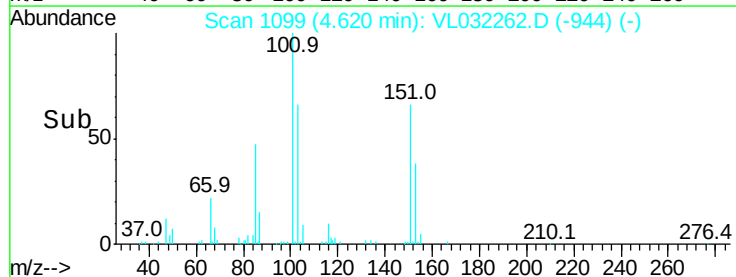
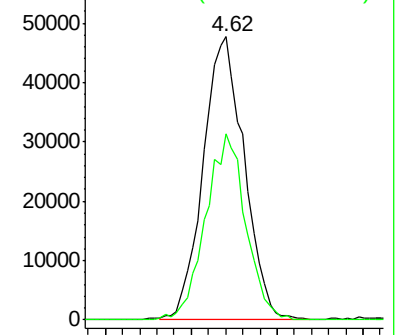
101 100

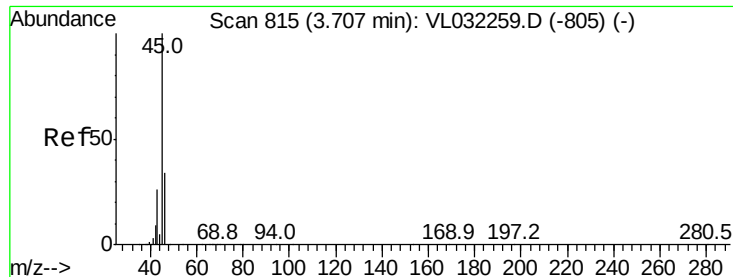
151 63.8 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.198 ppbv

RT: 3.71 min Scan# 817

Delta R.T. 0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

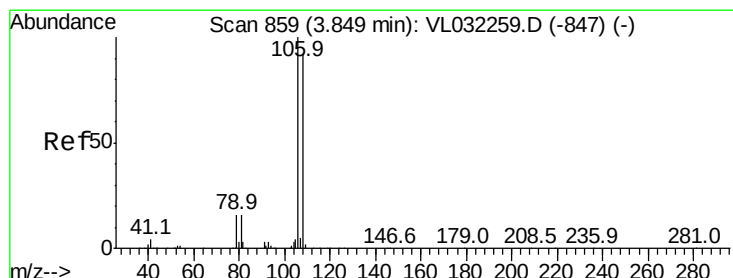
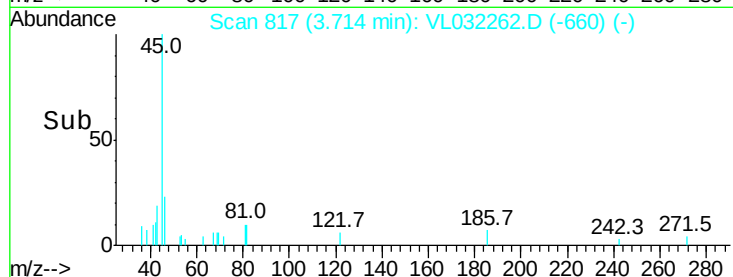
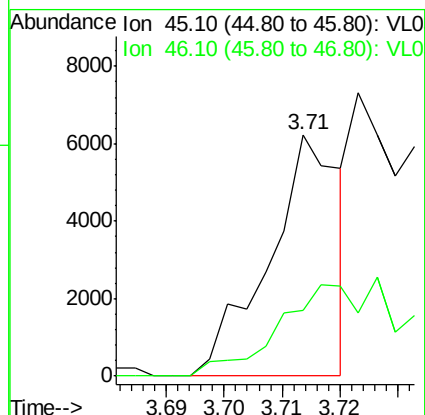
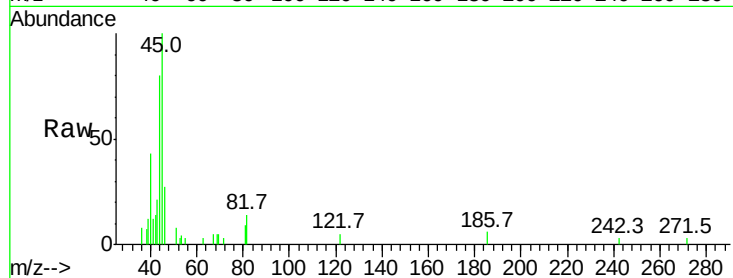
VSTDIC0.5

Tgt Ion: 45 Resp: 5311

Ion Ratio Lower Upper

45 100

46 0.0 15.2 60.8#



#14

Bromoethene

Concen: 0.450 ppbv

RT: 3.85 min Scan# 859

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

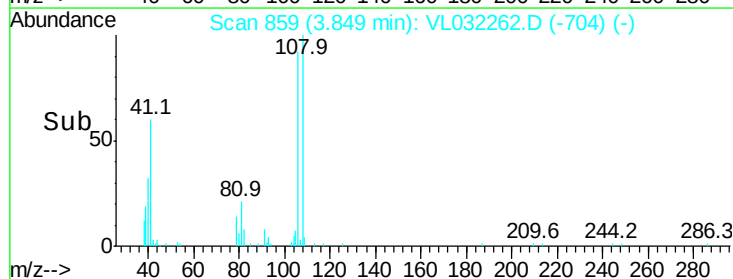
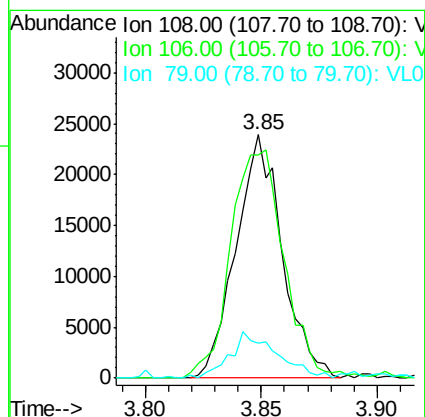
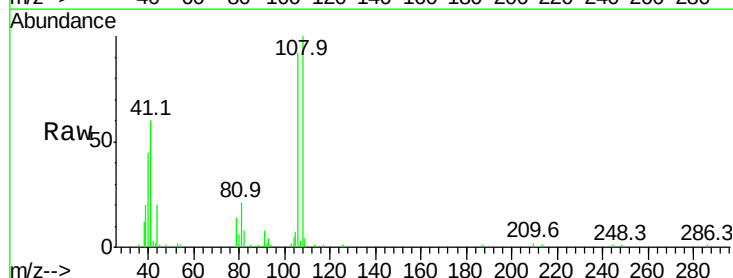
Tgt Ion: 108 Resp: 33142

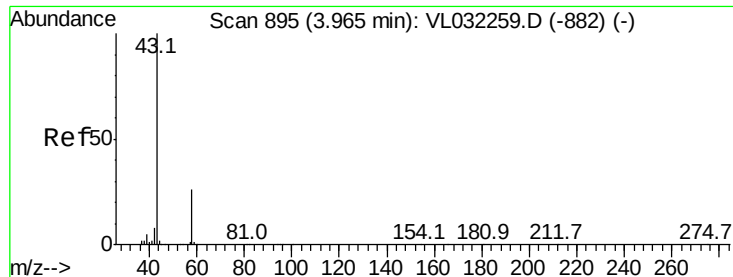
Ion Ratio Lower Upper

108 100

106 109.2 86.2 129.4

79 21.1 14.0 21.0#





#15

Acetone

Concen: 0.472 ppbv

RT: 3.98 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

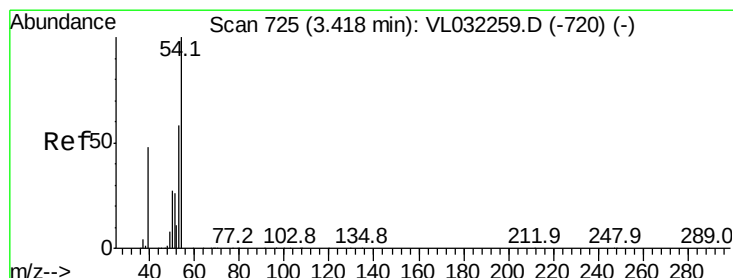
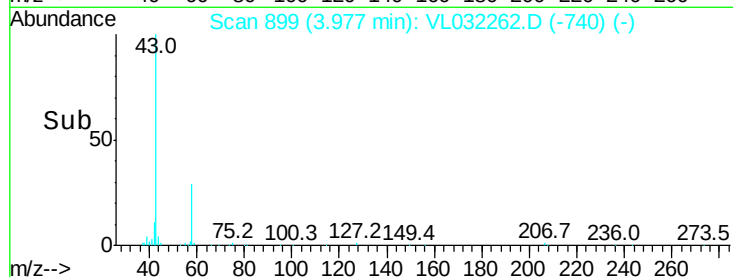
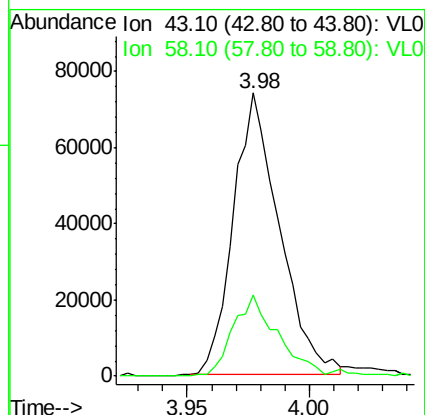
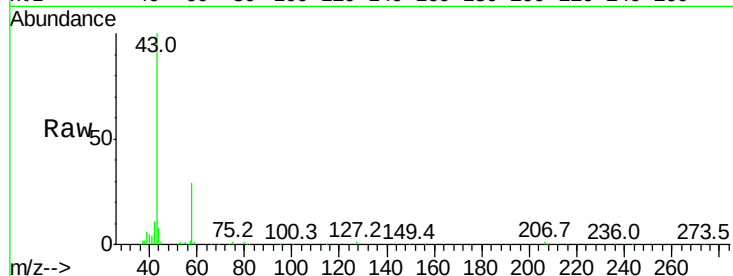
VSTDIC0.5

Tgt Ion: 43 Resp: 97063

Ion Ratio Lower Upper

43 100

58 29.2 21.8 32.6



#16

1,3-Butadiene

Concen: 0.387 ppbv

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VL032262.D

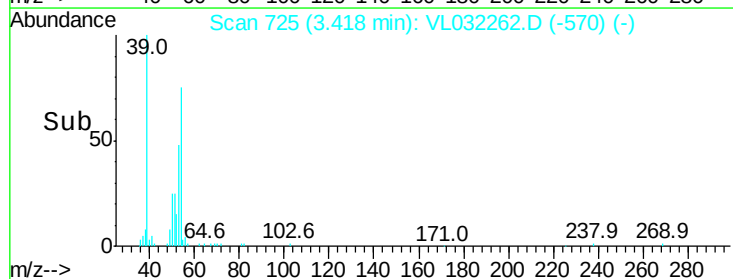
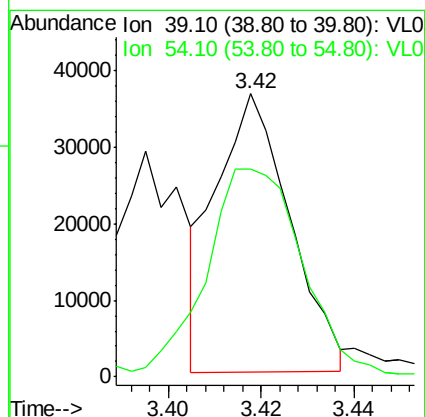
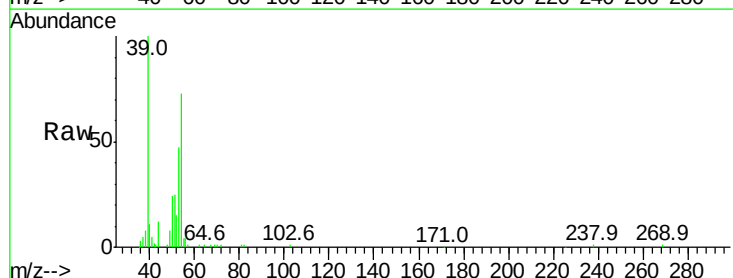
Acq: 18 Jul 2018 11:16

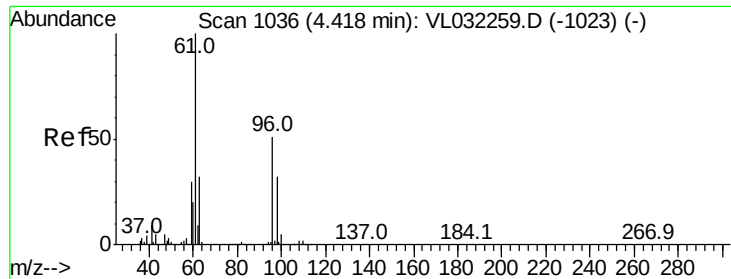
Tgt Ion: 39 Resp: 40250

Ion Ratio Lower Upper

39 100

54 100.2 70.6 105.8





#18

1,1-Dichloroethene

Concen: 0.480 ppbv

RT: 4.41 min Scan# 1035

Delta R.T. -0.00 min

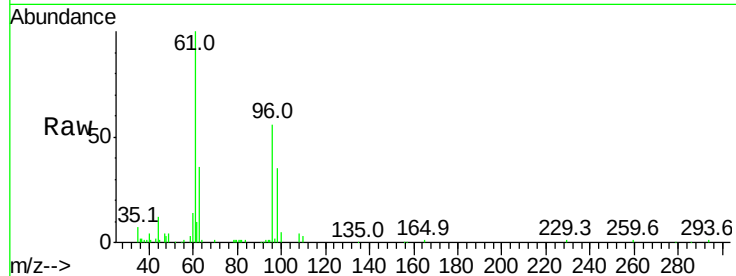
Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 96 Resp: 34855

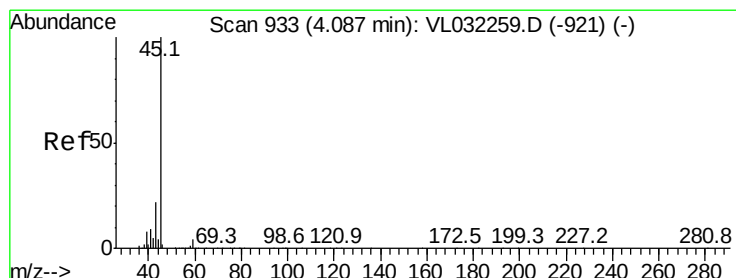
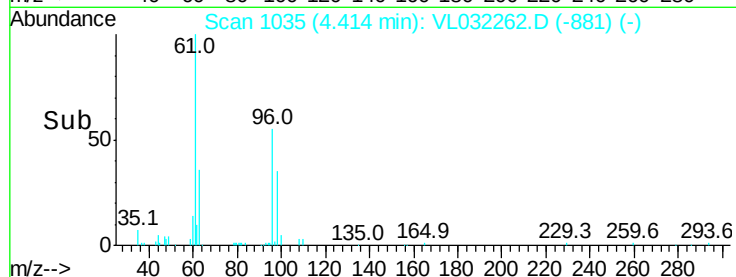
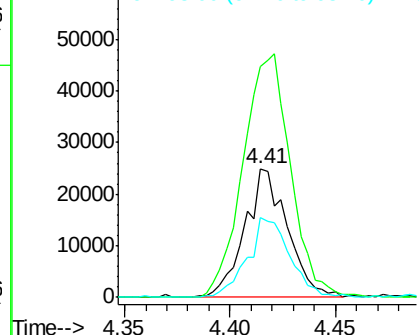
Ion	Ratio	Lower	Upper
96	100		
61	179.9	157.2	235.8
98	62.1	50.1	75.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 0.473 ppbv

RT: 4.11 min Scan# 939

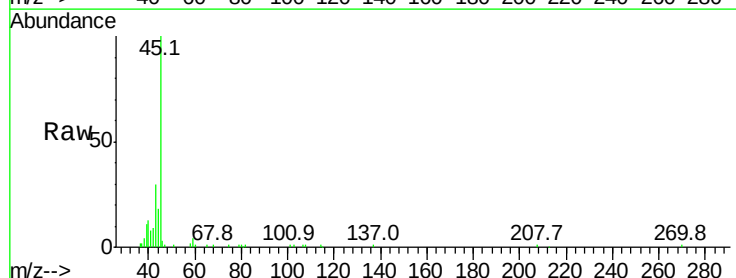
Delta R.T. 0.02 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

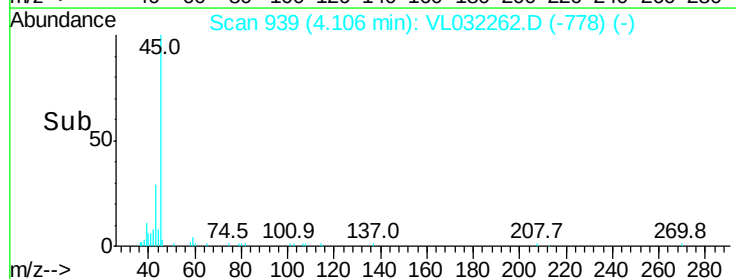
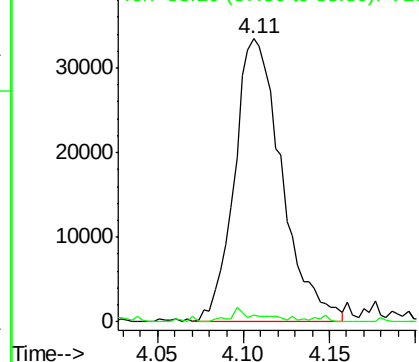
Tgt Ion: 45 Resp: 63899

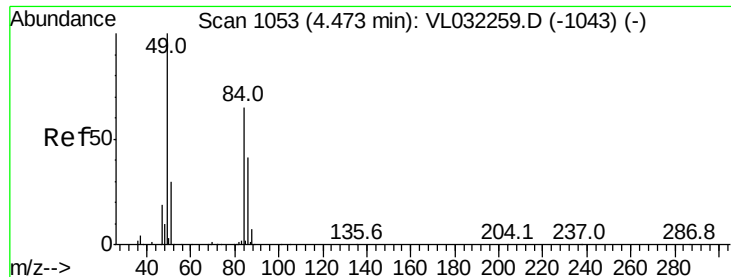
Ion	Ratio	Lower	Upper
45	100		
58	4.1	1.5	2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

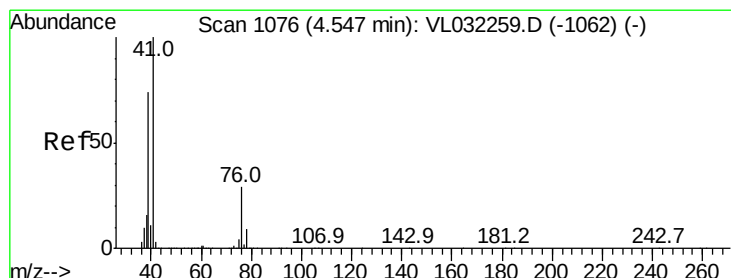
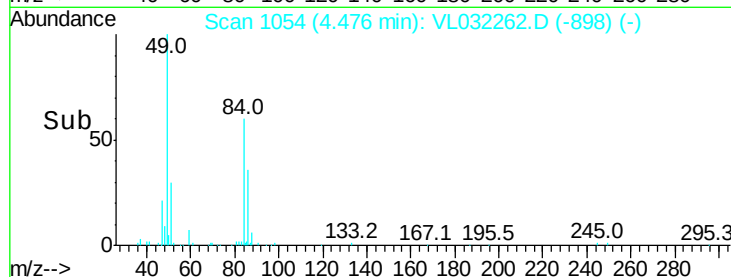
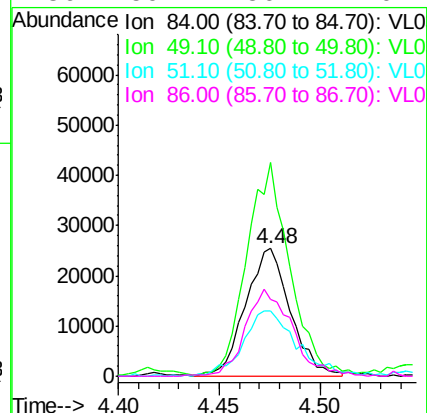
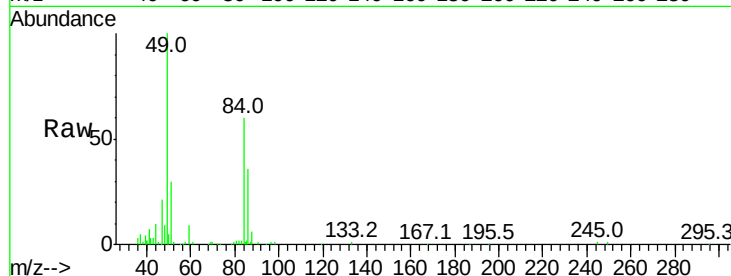




#20
Methylene Chloride
Concen: 0.567 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

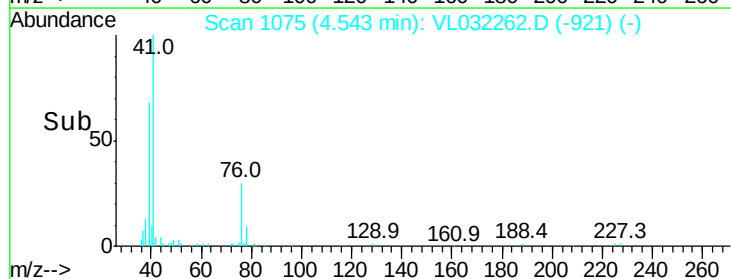
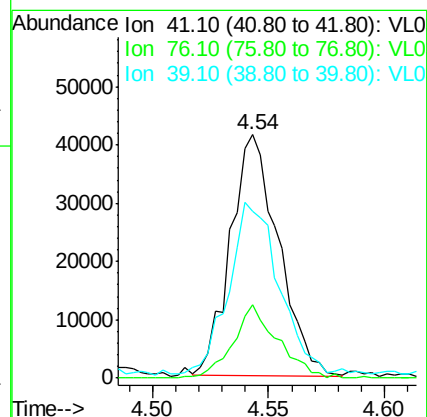
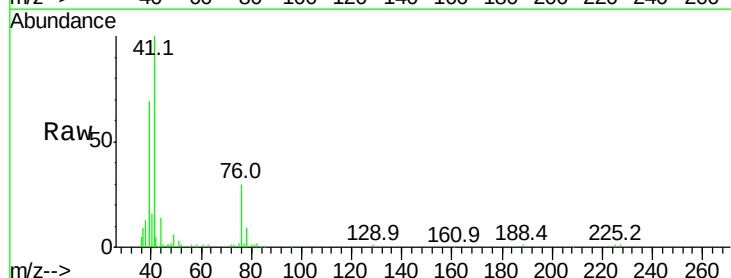
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

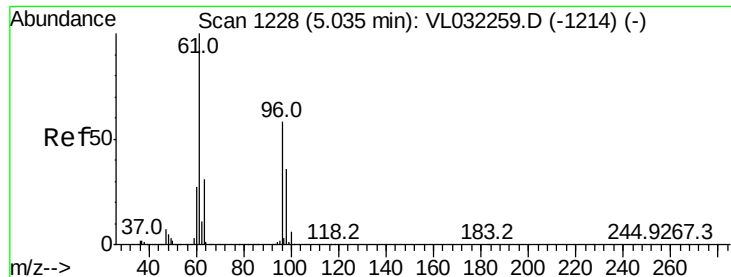
Tgt Ion:	84	Resp:	39569
Ion	Ratio	Lower	Upper
84	100		
49	166.3	122.4	183.6
51	50.8	36.8	55.2
86	59.7	50.7	76.1



#21
Allyl Chloride
Concen: 0.493 ppbv
RT: 4.54 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion:	41	Resp:	59457
Ion	Ratio	Lower	Upper
41	100		
76	28.3	23.0	34.6
39	80.7	60.2	90.4





#22

trans-1,2-Dichloroethene

Concen: 0.516 ppbv

RT: 5.04 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

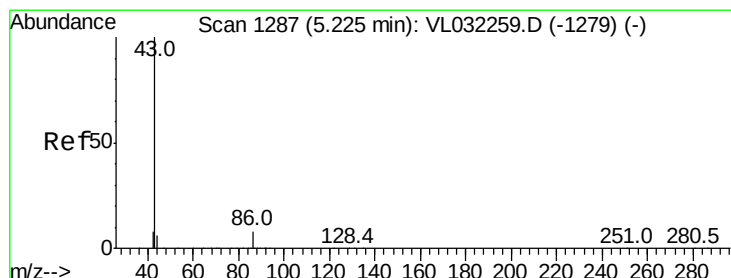
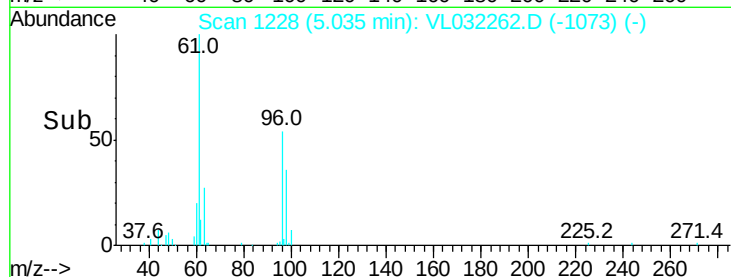
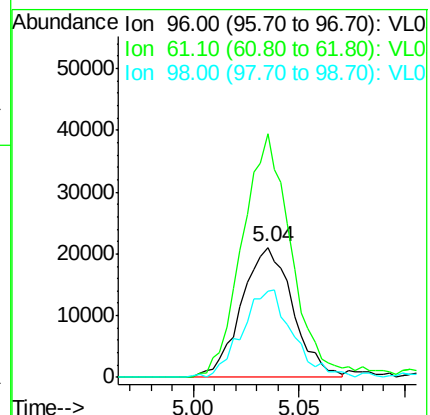
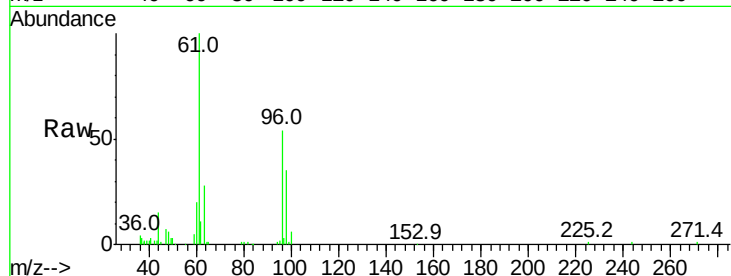
Tgt Ion: 96 Resp: 35669

Ion Ratio Lower Upper

96 100

61 186.8 137.4 206.0

98 64.8 49.6 74.4



#23

Vinyl Acetate

Concen: 0.445 ppbv

RT: 5.23 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion: 43 Resp: 152190

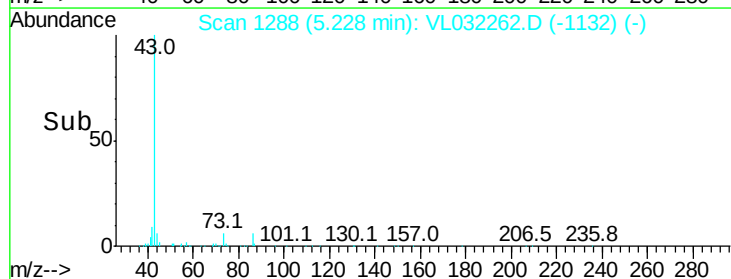
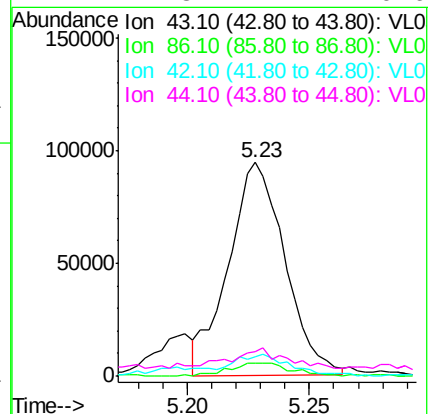
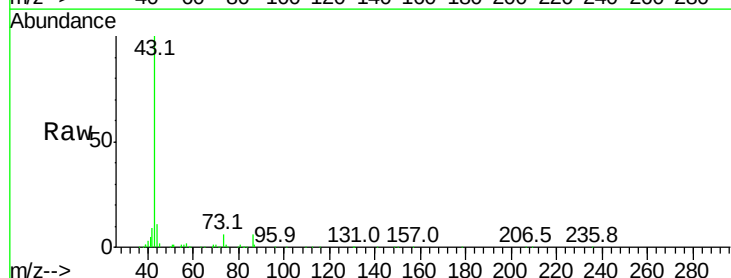
Ion Ratio Lower Upper

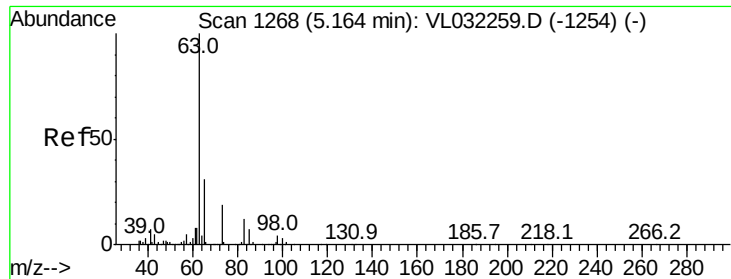
43 100

86 6.3 5.9 8.9

42 8.2 7.3 10.9

44 7.8 4.4 6.6#

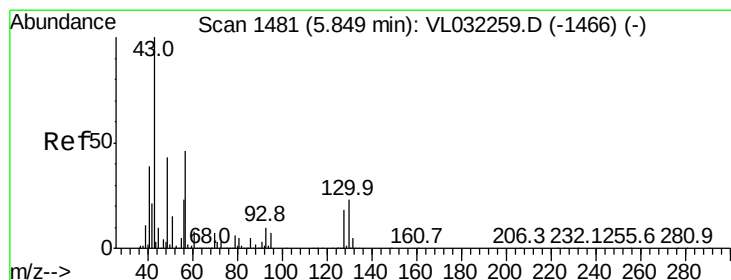
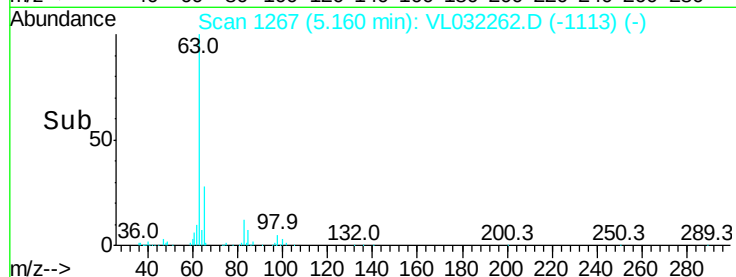
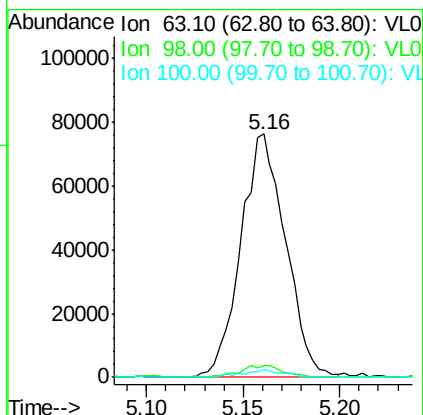
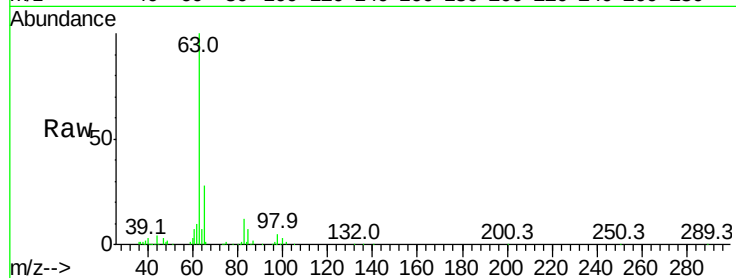




#24
1,1-Dichloroethane
Concen: 0.507 ppbv
RT: 5.16 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

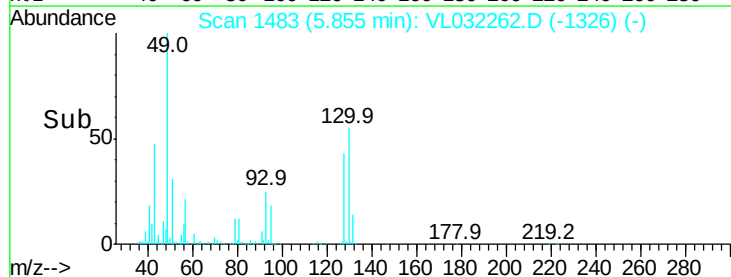
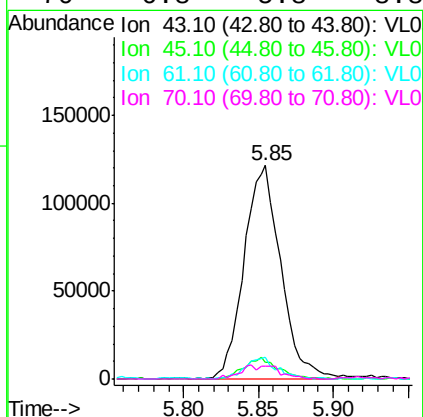
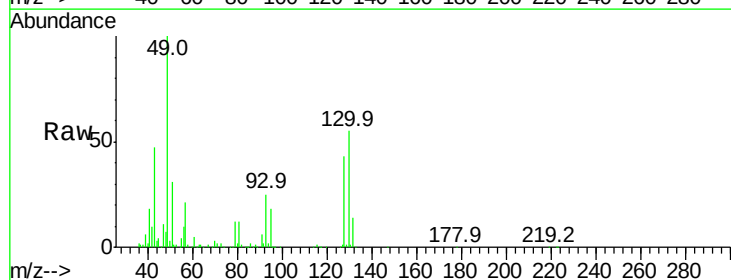
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

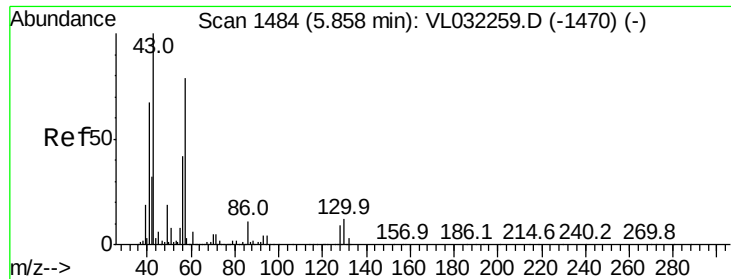
Tgt Ion:	63	Resp:	121817
Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.1	6.3
100	3.3	1.3	3.9



#25
Ethyl Acetate
Concen: 0.511 ppbv
RT: 5.85 min Scan# 1483
Delta R.T. 0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion:	43	Resp:	208008
Ion	Ratio	Lower	Upper
43	100		
45	9.4	7.9	11.9
61	9.2	7.6	11.4
70	6.8	5.8	8.8





#26

Hexane

Concen: 0.492 ppbv

RT: 5.85 min Scan# 1482

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 57 Resp: 91457

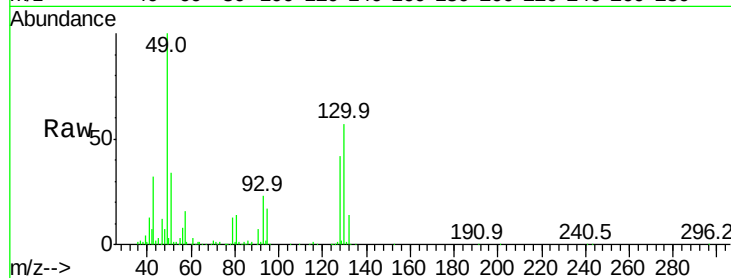
Ion Ratio Lower Upper

57 100

41 87.3 67.9 101.9

43 229.2 175.9 263.9

56 55.4 41.9 62.9

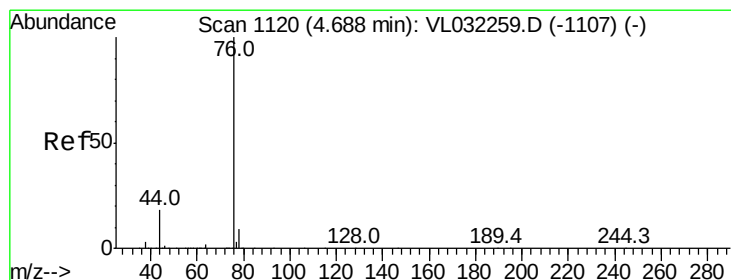
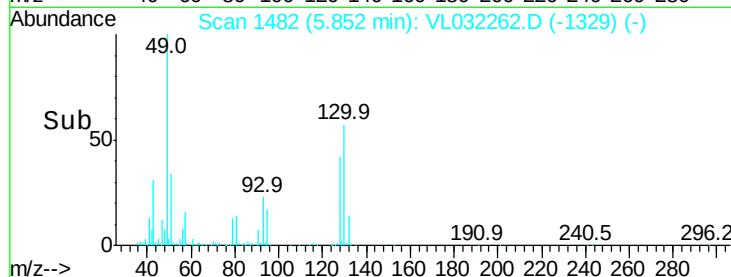
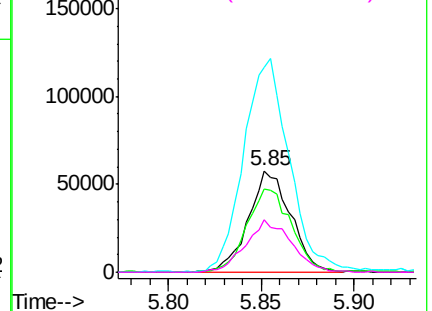


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.424 ppbv

RT: 4.69 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

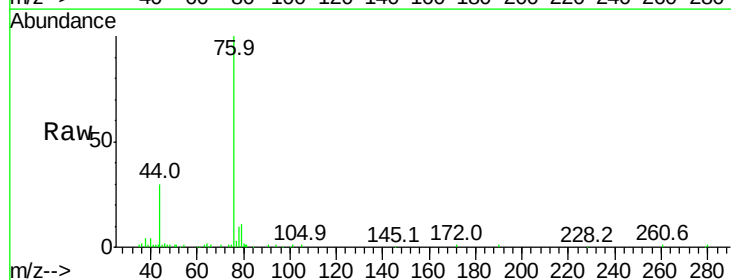
Tgt Ion: 76 Resp: 70509

Ion Ratio Lower Upper

76 100

44 31.4 14.3 21.5#

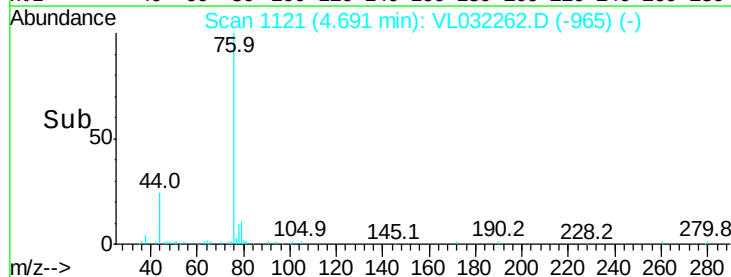
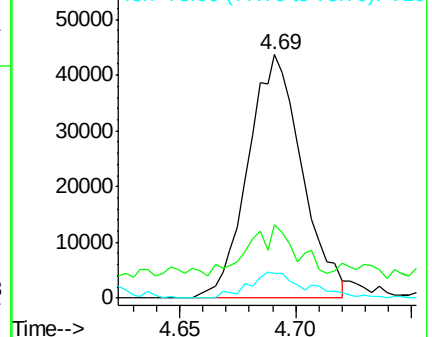
78 11.8 7.4 11.0#

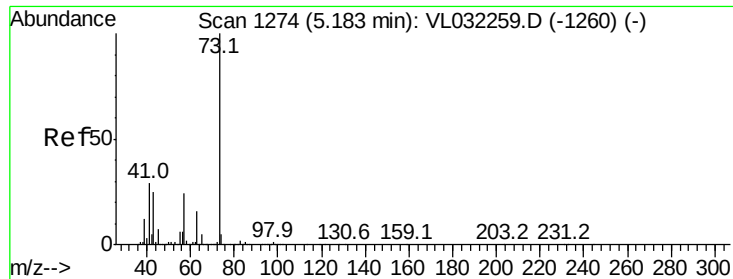


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#28

Methyl tert-Butyl Ether

Concen: 0.429 ppbv

RT: 5.20 min Scan# 1279

Delta R.T. 0.02 min

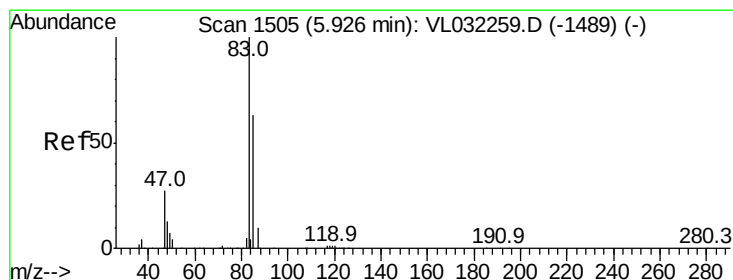
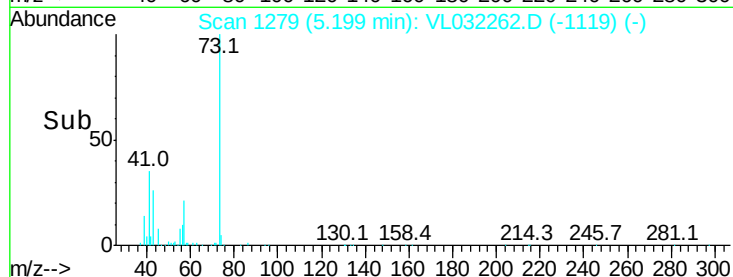
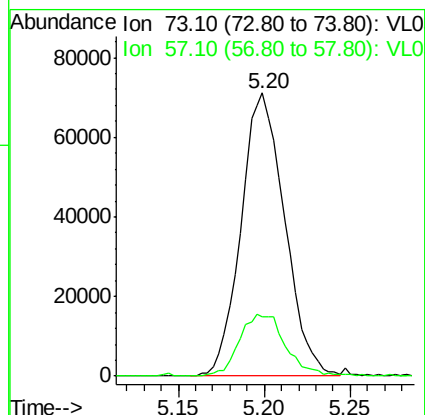
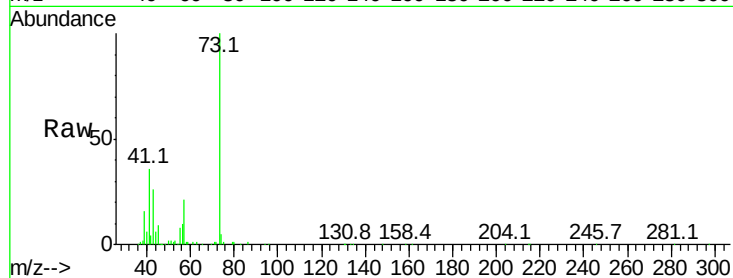
Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 73 Resp: 125527

Ion	Ratio	Lower	Upper
73	100		
57	23.4	19.3	28.9



#29

Chloroform

Concen: 0.485 ppbv

RT: 5.92 min Scan# 1503

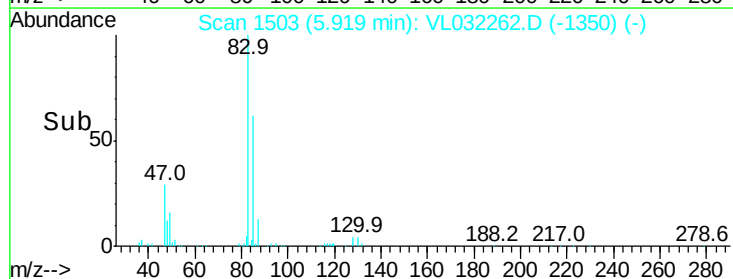
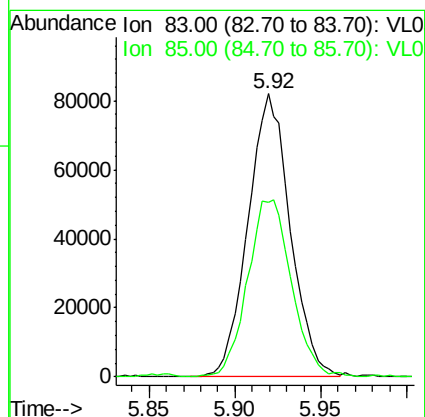
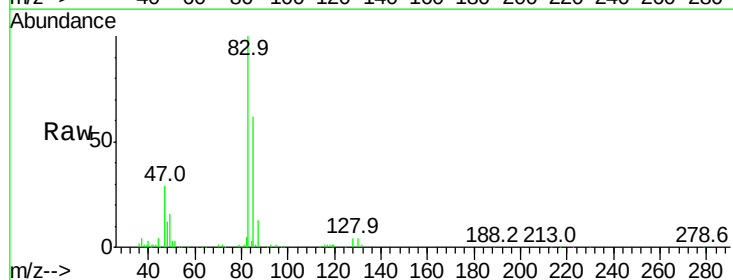
Delta R.T. -0.01 min

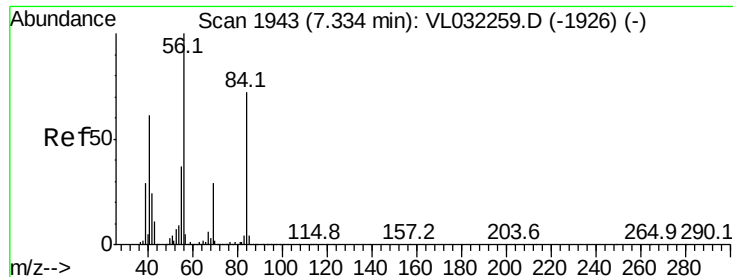
Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion: 83 Resp: 139264

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.7	76.1

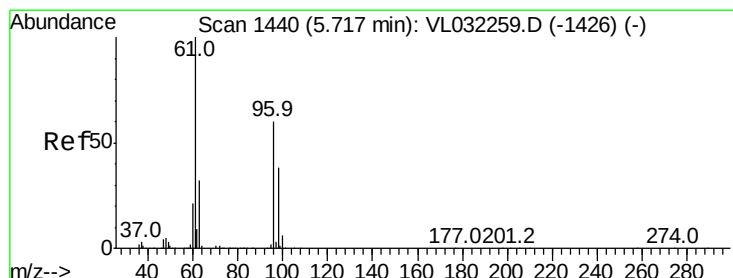
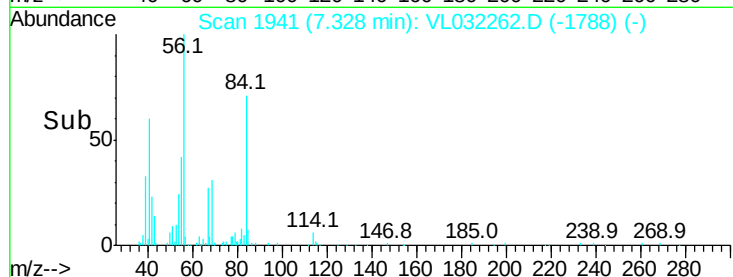
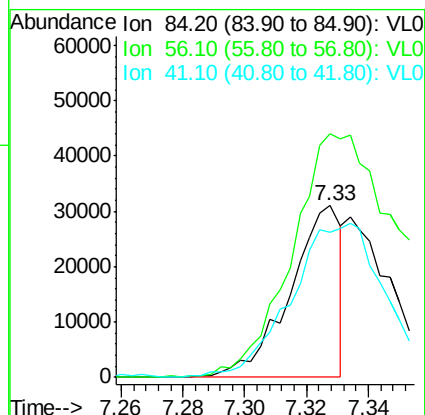
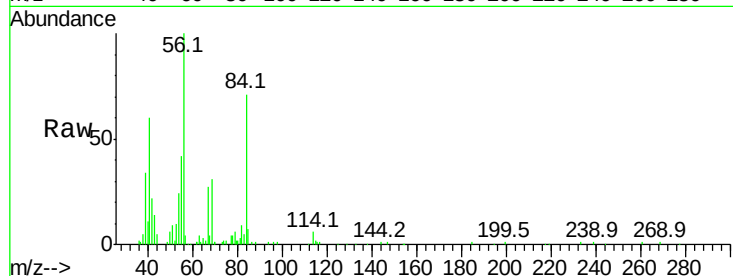




#30
Cyclohexane
Concen: 0.217 ppbv
RT: 7.33 min Scan# 1941
Delta R.T. -0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

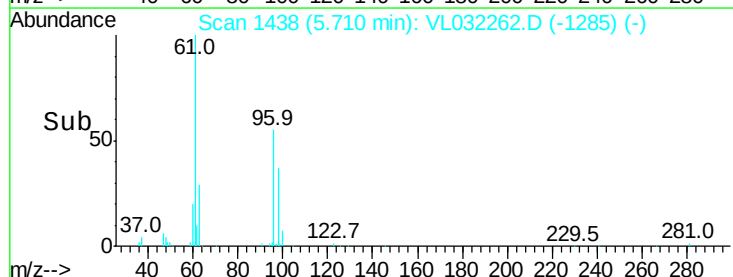
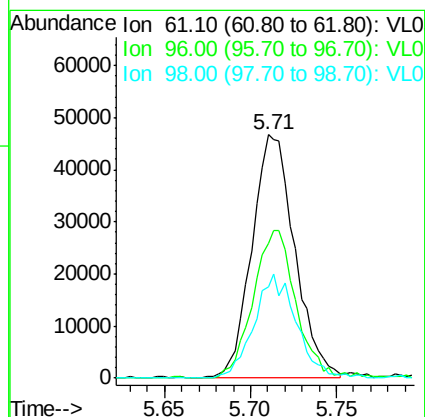
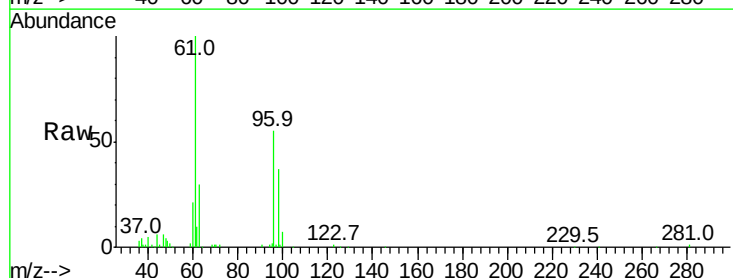
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

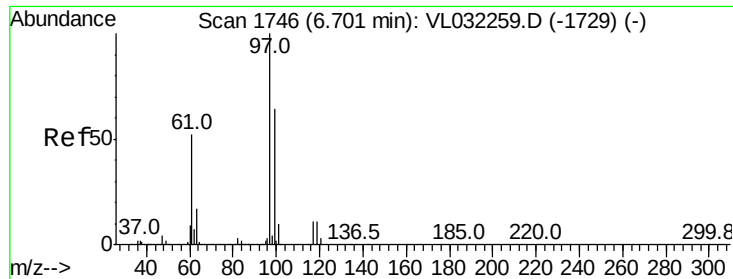
Tgt Ion: 84 Resp: 35569
Ion Ratio Lower Upper
84 100
56 238.7 115.6 173.4#
41 0.0 68.7 103.1#



#31
cis-1,2-Dichloroethene
Concen: 0.436 ppbv
RT: 5.71 min Scan# 1438
Delta R.T. -0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion: 61 Resp: 80886
Ion Ratio Lower Upper
61 100
96 55.3 47.9 71.9
98 37.5 30.5 45.7





#32

1,1,1-Trichloroethane

Concen: 0.485 ppbv

RT: 6.70 min Scan# 1746

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

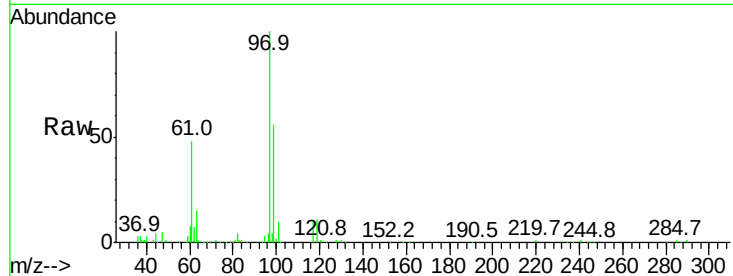
Tgt Ion: 97 Resp: 135034

Ion Ratio Lower Upper

97 100

99 65.3 51.0 76.6

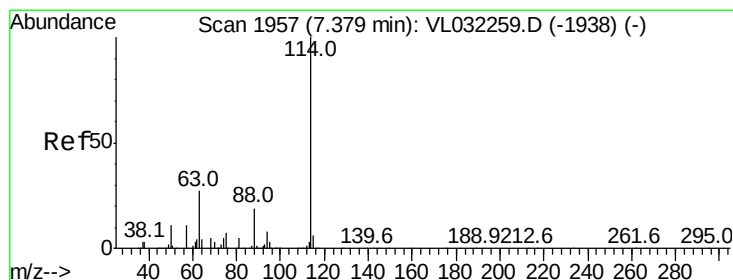
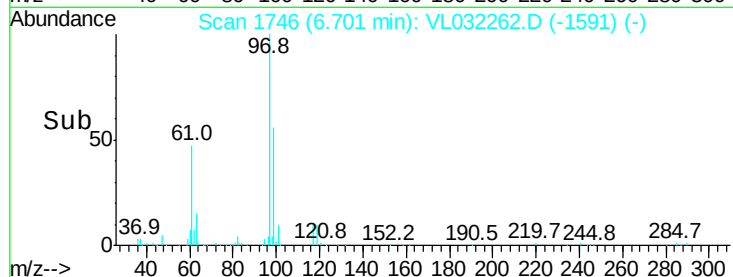
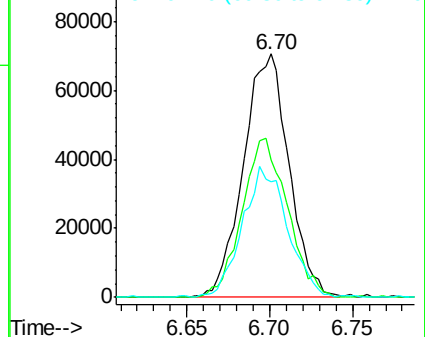
61 53.6 41.2 61.8



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.37 min Scan# 1955

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

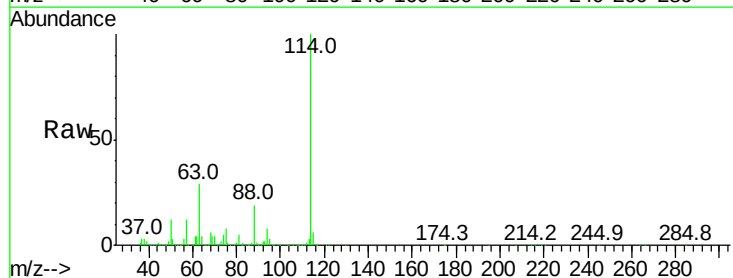
Tgt Ion: 114 Resp: 3812050

Ion Ratio Lower Upper

114 100

63 28.5 22.6 33.8

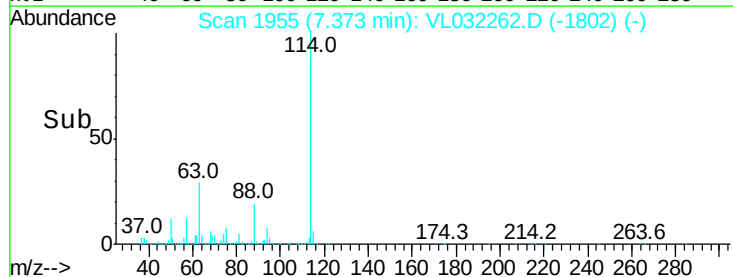
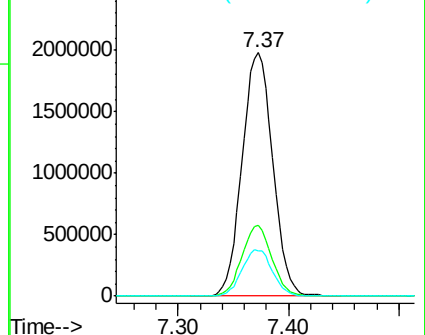
88 19.1 15.2 22.8

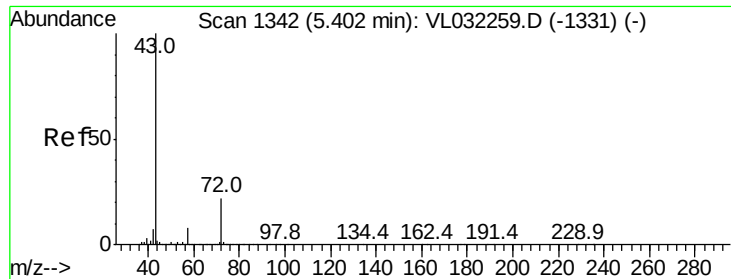


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.496 ppbv

RT: 5.41 min Scan# 1346

Delta R.T. 0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

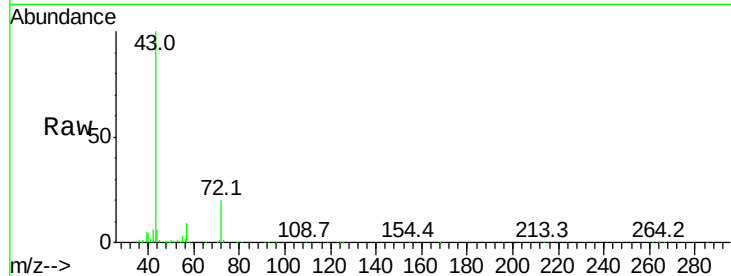
VSTDIC0.5

Tgt Ion: 43 Resp: 128770

Ion Ratio Lower Upper

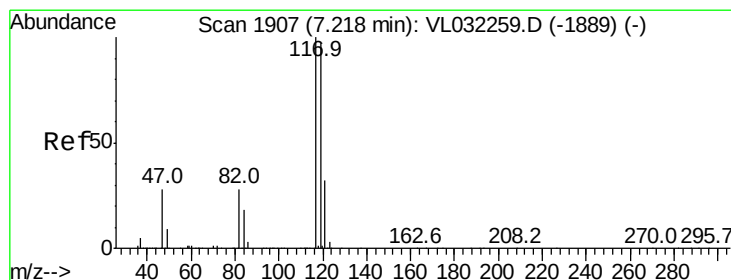
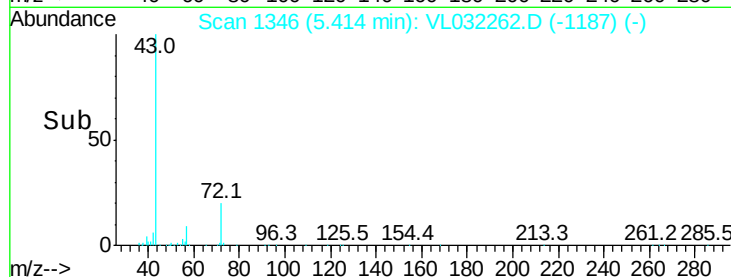
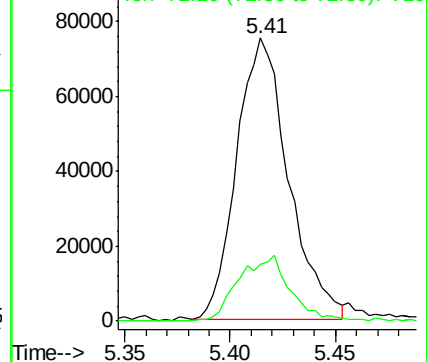
43 100

72 23.2 17.7 26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.509 ppbv

RT: 7.22 min Scan# 1906

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

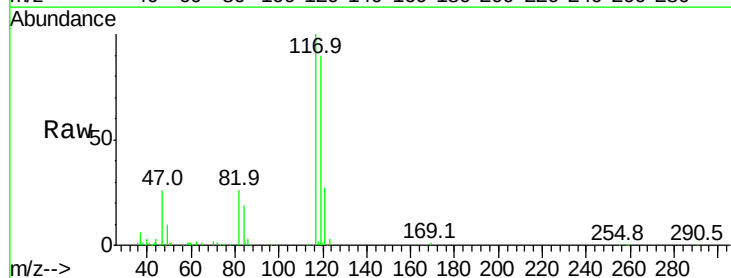
Tgt Ion: 117 Resp: 131260

Ion Ratio Lower Upper

117 100

119 89.4 77.4 116.0

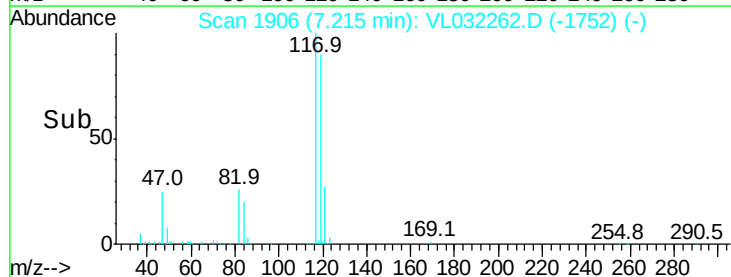
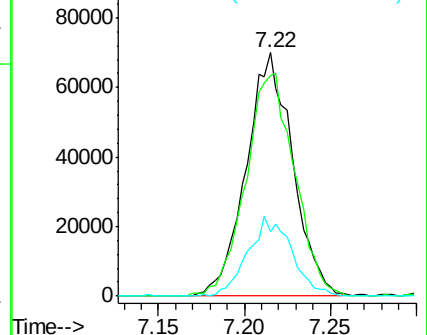
121 26.6 25.4 38.2

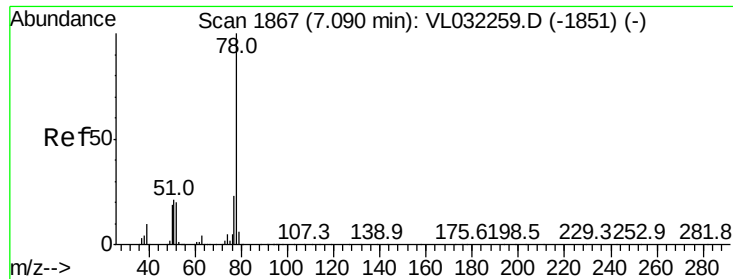


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.479 ppbv

RT: 7.09 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

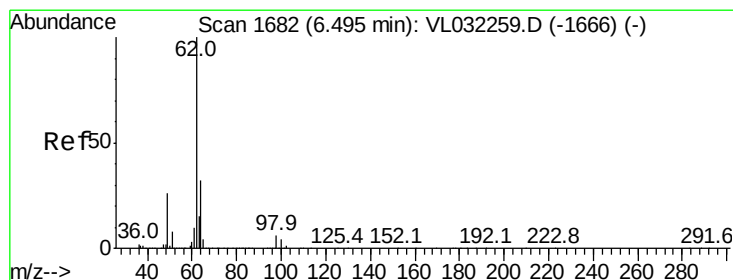
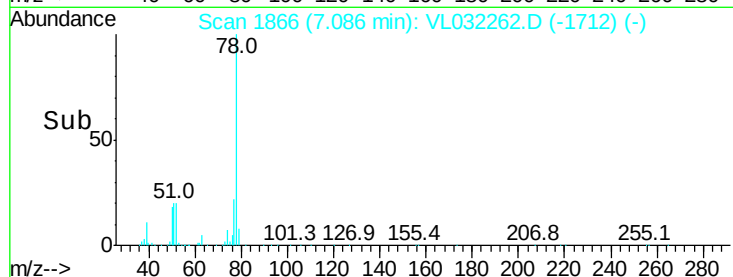
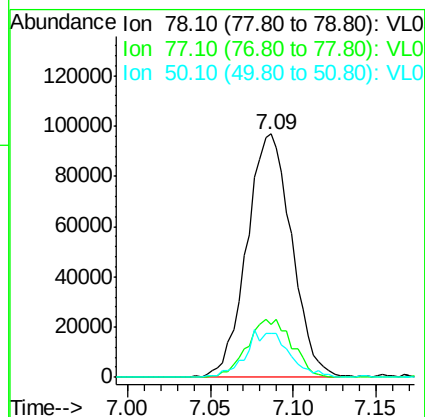
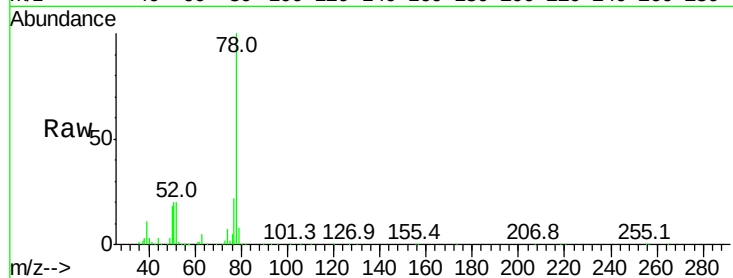
Tgt Ion: 78 Resp: 181617

Ion Ratio Lower Upper

78 100

77 21.8 18.6 27.8

50 17.8 15.0 22.6



#37

1,2-Dichloroethane

Concen: 0.548 ppbv

RT: 6.49 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VL032262.D

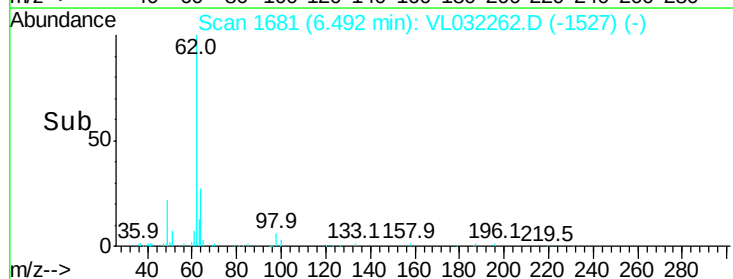
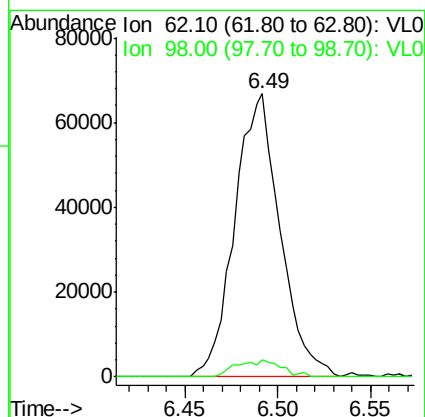
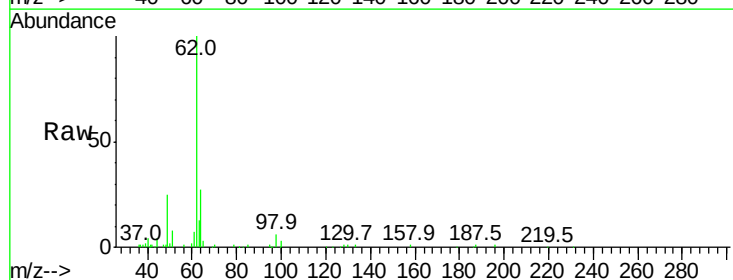
Acq: 18 Jul 2018 11:16

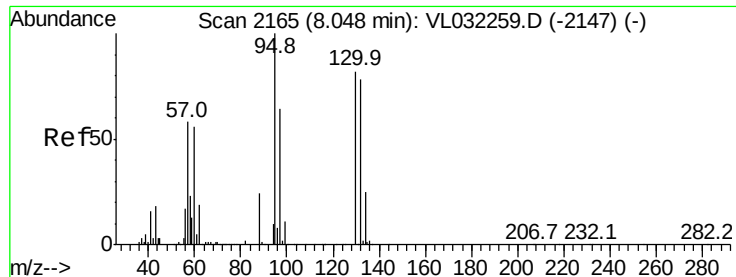
Tgt Ion: 62 Resp: 113579

Ion Ratio Lower Upper

62 100

98 6.1 4.9 7.3

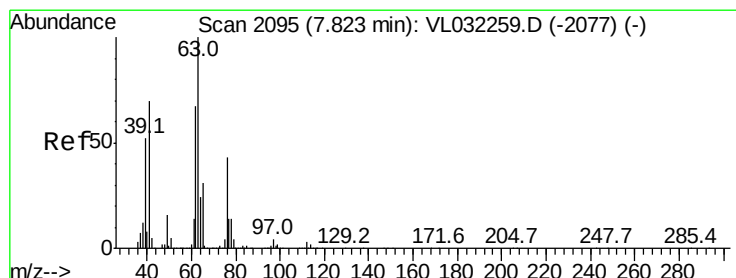
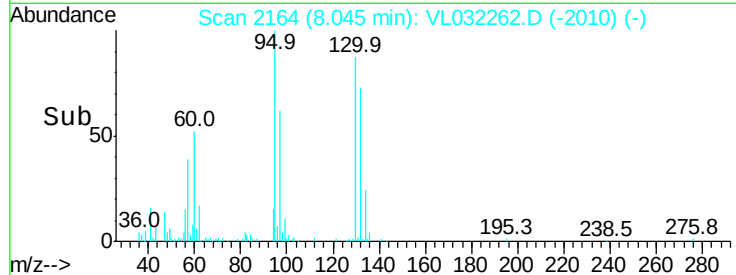
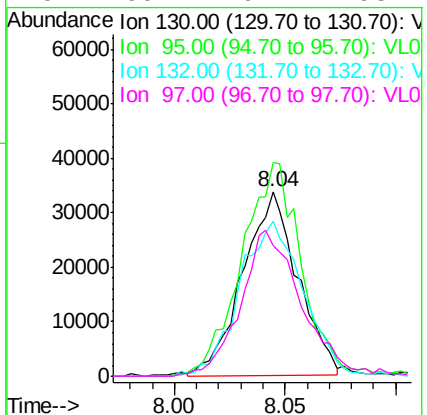
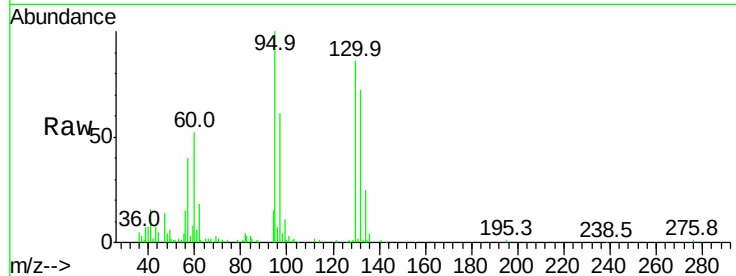




#38
 Trichloroethene
 Concen: 0.448 ppbv
 RT: 8.04 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

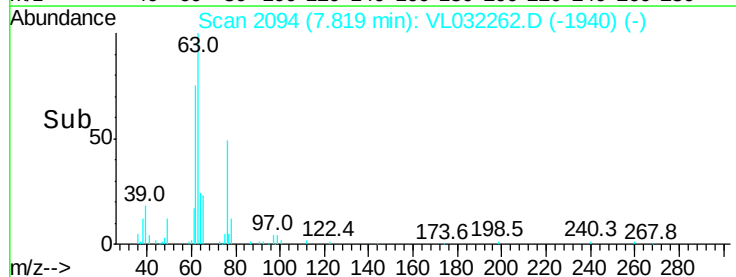
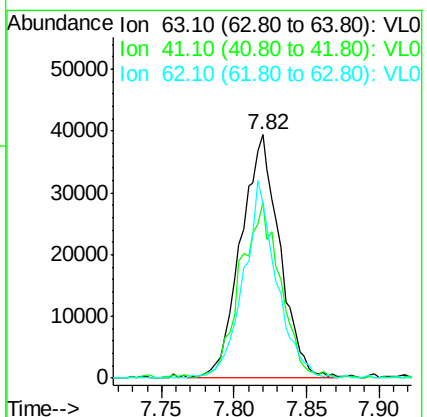
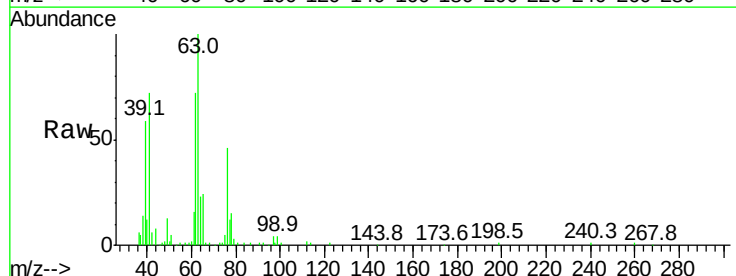
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

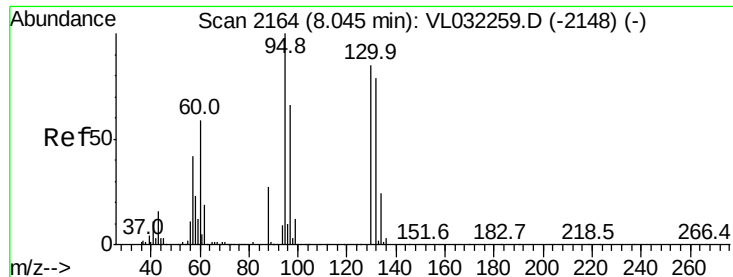
Tgt Ion:	130	Resp:	58250
Ion	Ratio	Lower	Upper
130	100		
95	112.8	97.1	145.7
132	82.2	75.6	113.4
97	69.1	62.1	93.1



#39
 1,2-Dichloropropane
 Concen: 0.488 ppbv
 RT: 7.82 min Scan# 2094
 Delta R.T. -0.00 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Tgt Ion:	63	Resp:	73517
Ion	Ratio	Lower	Upper
63	100		
41	72.1	55.8	83.6
62	71.8	53.8	80.8

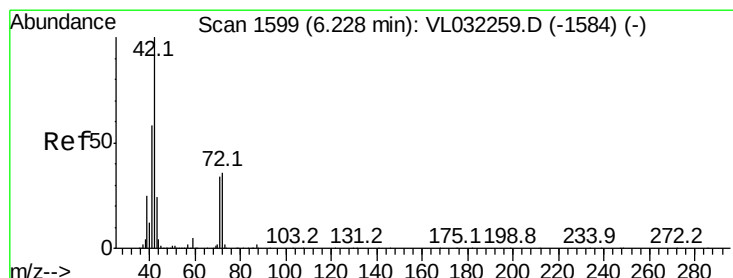
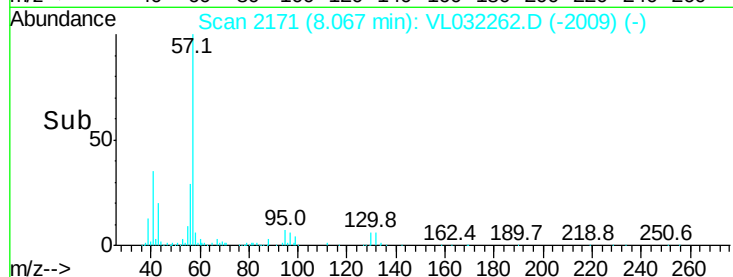
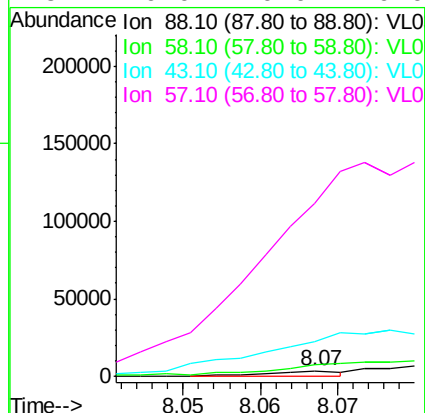
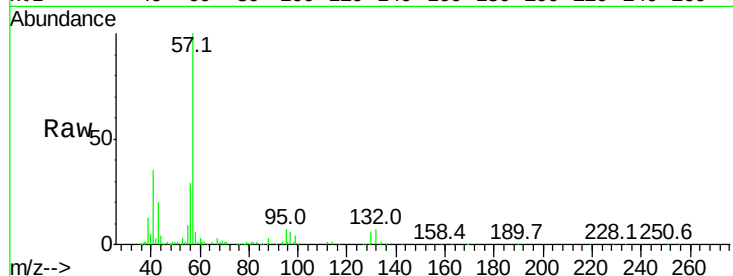




#40
1,4-Dioxane
Concen: 0.045 ppbv
RT: 8.07 min Scan# 2171
Delta R.T. 0.02 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

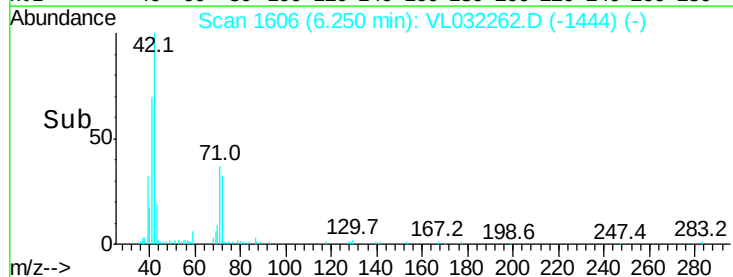
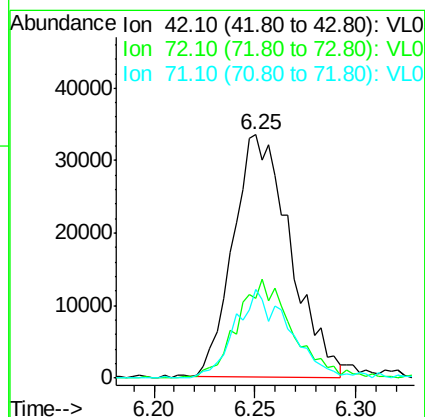
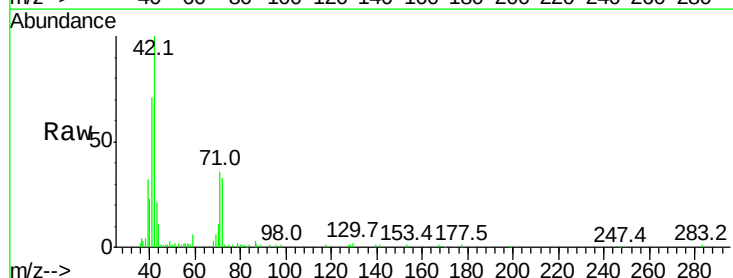
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

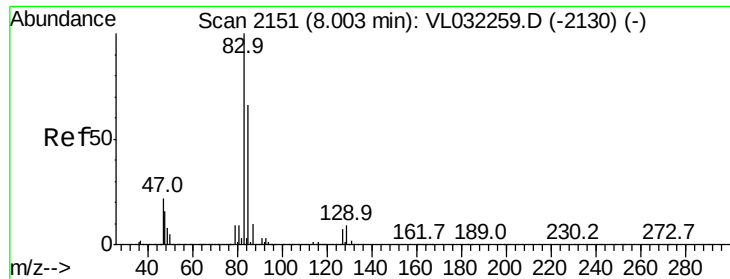
Tgt Ion:	88	Resp:	2341
Ion	Ratio	Lower	Upper
88	100		
58	0.0	60.9	91.3#
43	0.0	0.0	0.0
57	0.0	0.0	0.0



#41
Tetrahydrofuran
Concen: 0.454 ppbv
RT: 6.25 min Scan# 1606
Delta R.T. 0.02 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion:	42	Resp:	66008
Ion	Ratio	Lower	Upper
42	100		
72	40.0	29.4	44.0
71	35.8	28.2	42.4





#42

Bromodichloromethane

Concen: 0.450 ppbv

RT: 8.00 min Scan# 2150

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

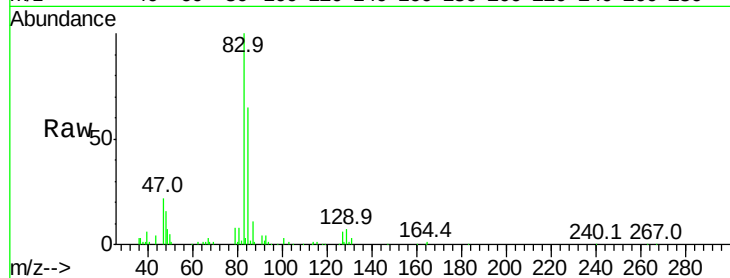
Tgt Ion: 83 Resp: 132786

Ion Ratio Lower Upper

83 100

85 65.2 53.0 79.4

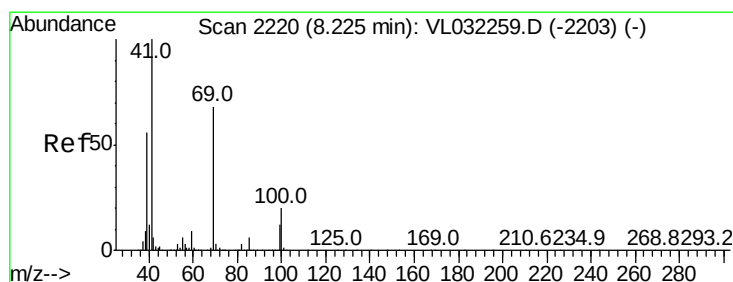
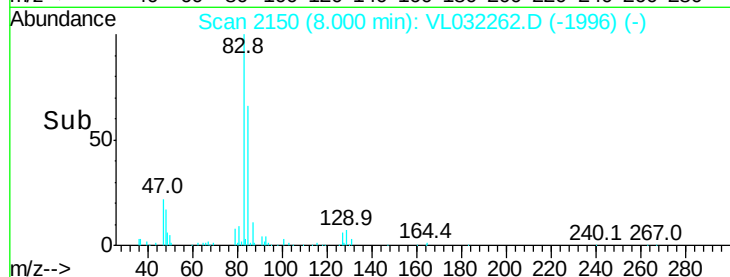
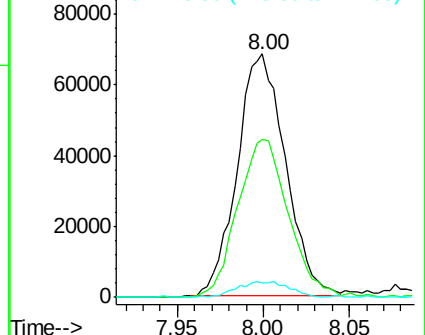
127 6.1 5.7 8.5



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: 0.221 ppbv

RT: 8.22 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

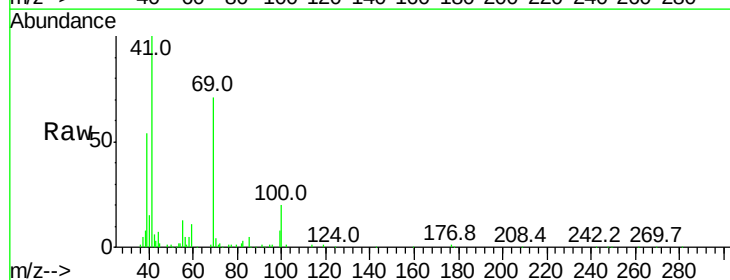
Tgt Ion: 69 Resp: 32299

Ion Ratio Lower Upper

69 100

41 0.0 118.6 177.8#

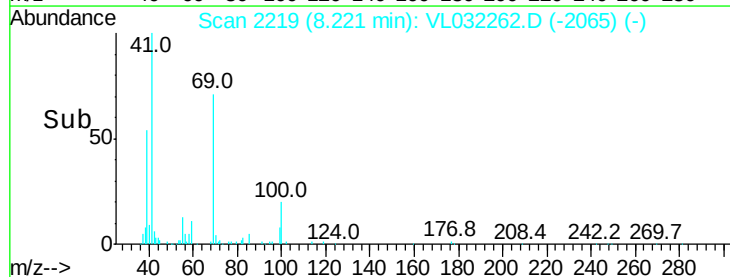
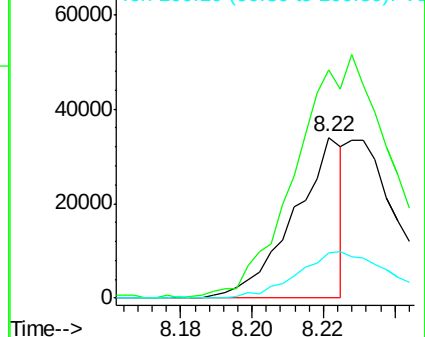
100 0.0 23.3 34.9#

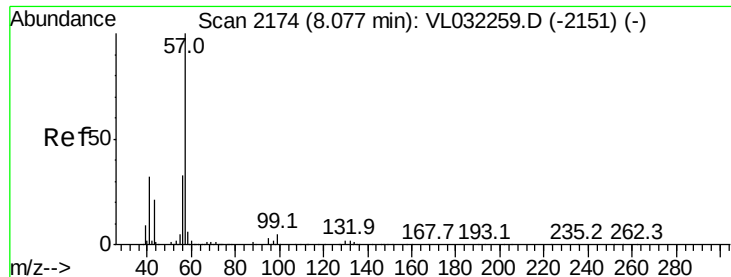


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.259 ppbv

RT: 8.07 min Scan# 2173

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

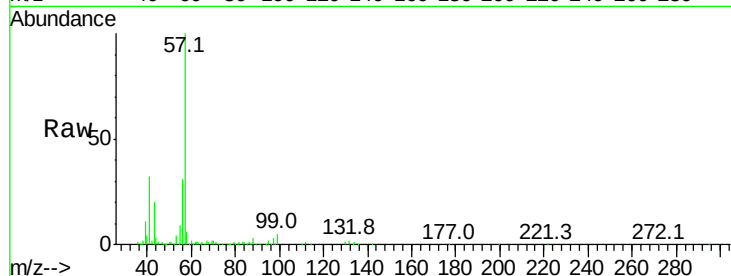
Tgt Ion: 57 Resp: 168479

Ion Ratio Lower Upper

57 100

41 61.4 24.4 36.6#

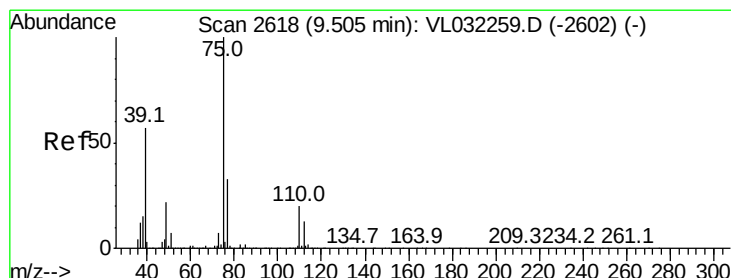
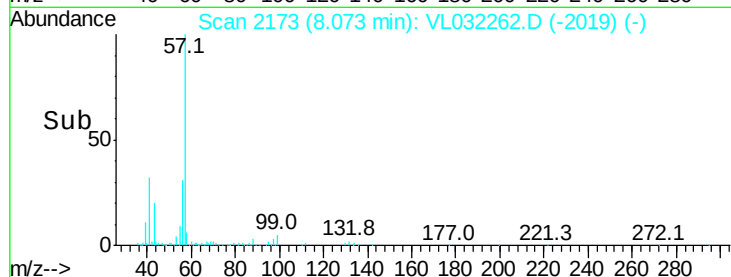
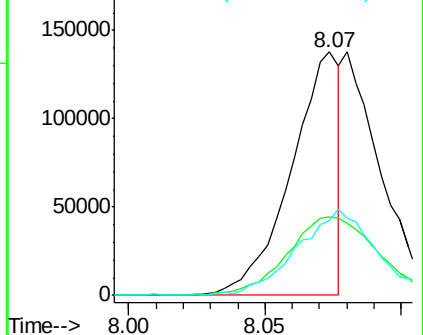
56 0.0 25.7 38.5#



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



#45

t-1,3-Dichloropropene

Concen: 0.222 ppbv

RT: 9.50 min Scan# 2617

Delta R.T. -0.00 min

Lab File: VL032262.D

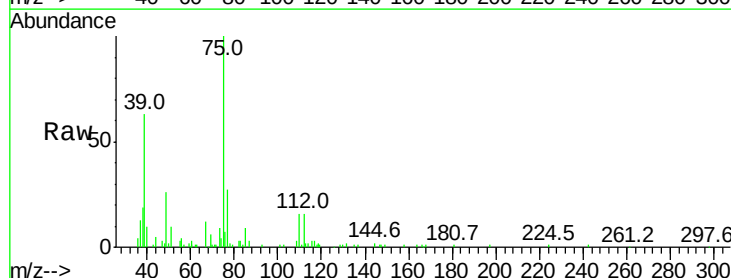
Acq: 18 Jul 2018 11:16

Tgt Ion: 75 Resp: 38761

Ion Ratio Lower Upper

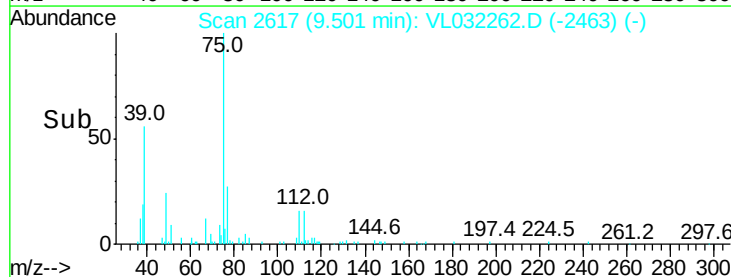
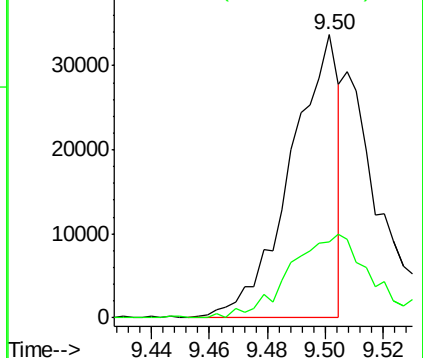
75 100

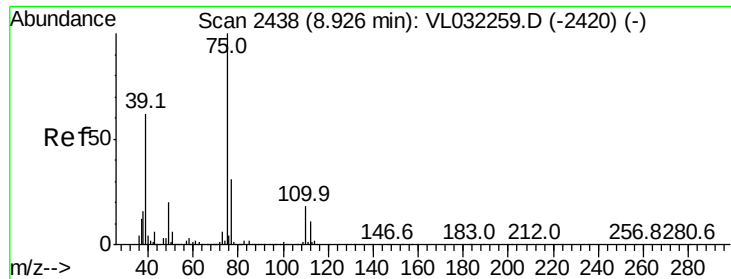
77 29.3 26.2 39.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#46

cis-1,3-Dichloropropene

Concen: 0.172 ppbv

RT: 8.91 min Scan# 2434

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

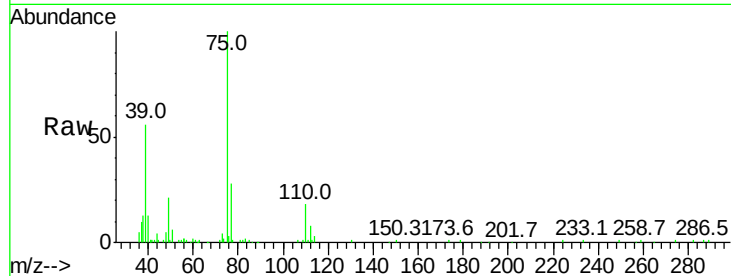
Tgt Ion: 75 Resp: 40794

Ion Ratio Lower Upper

75 100

39 53.7 49.9 74.9

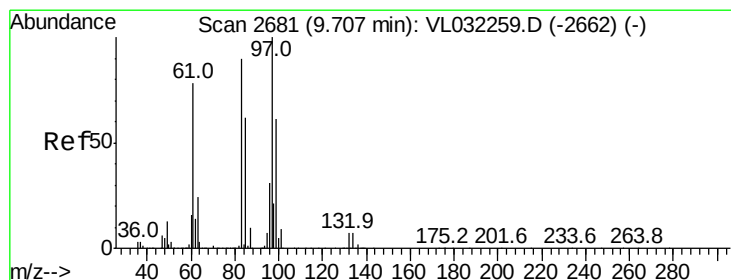
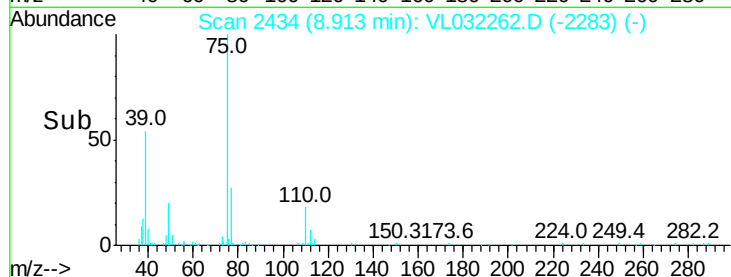
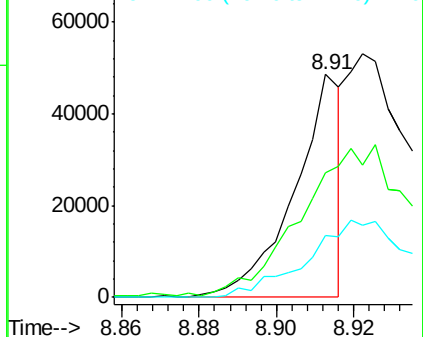
77 27.8 25.0 37.4



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



#47

1,1,2-Trichloroethane

Concen: 0.092 ppbv

RT: 9.70 min Scan# 2679

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Tgt Ion: 97 Resp: 15413

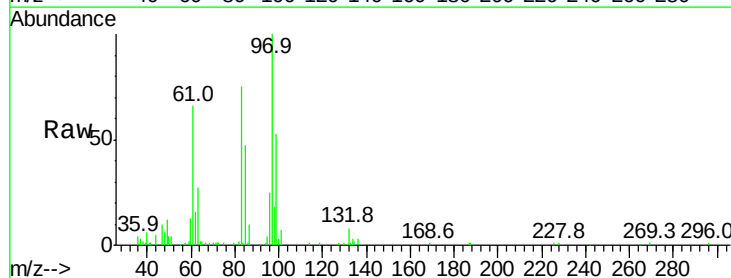
Ion Ratio Lower Upper

97 100

83 37.5 72.3 108.5#

85 40.0 49.5 74.3#

99 48.6 48.9 73.3#

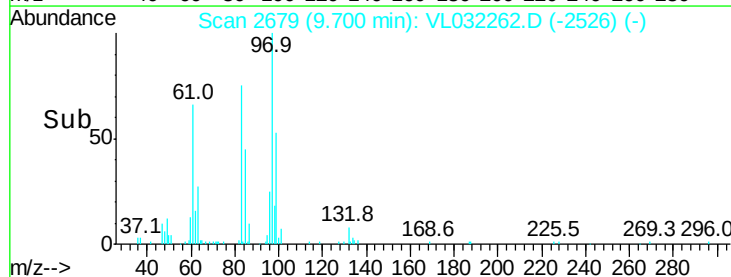
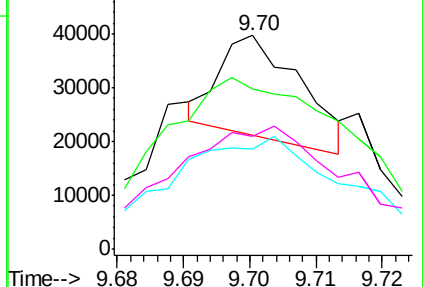


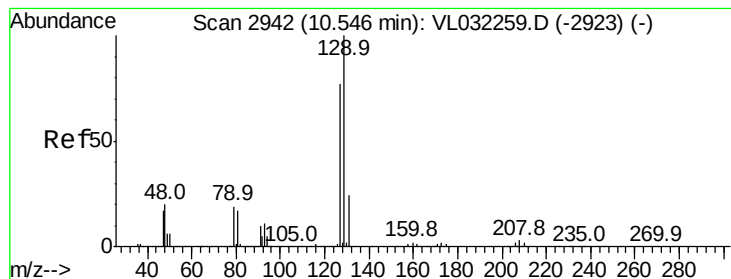
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0





#48

Dibromochloromethane

Concen: 0.406 ppbv

RT: 10.54 min Scan# 2940

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

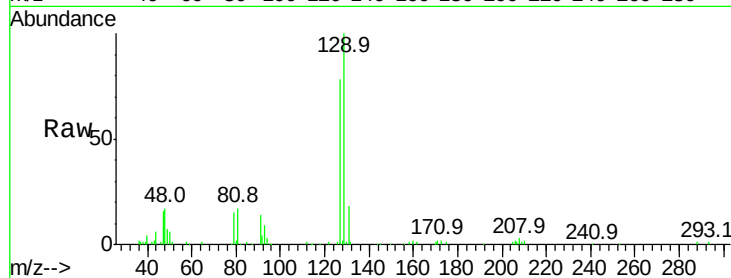
VSTDIC0.5

Tgt Ion:129 Resp: 101652

Ion Ratio Lower Upper

129 100

127 77.2 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.54

60000

50000

40000

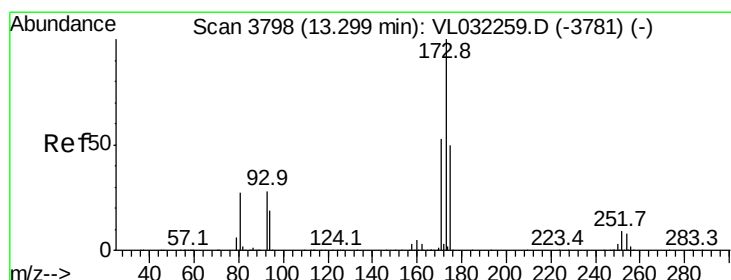
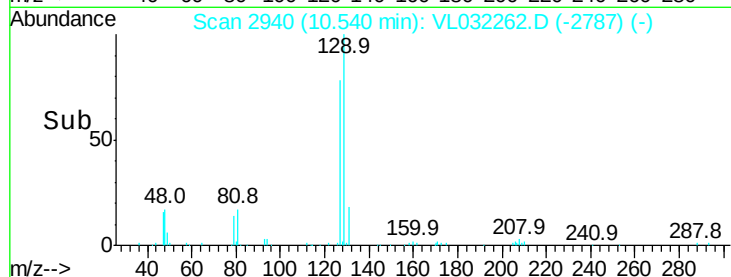
30000

20000

10000

0

Time--> 10.45 10.50 10.55 10.60



#49

Bromoform

Concen: 0.452 ppbv

RT: 13.29 min Scan# 3796

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

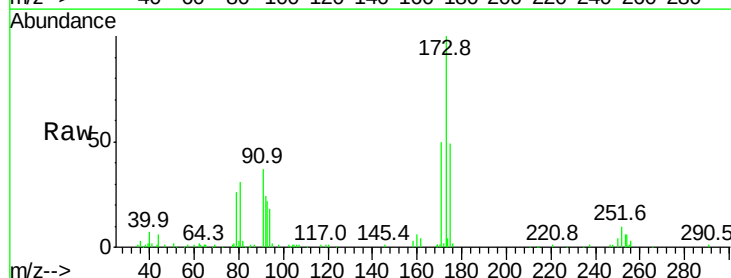
Tgt Ion:173 Resp: 90629

Ion Ratio Lower Upper

173 100

175 51.3 39.0 58.6

171 54.0 41.6 62.4



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V

13.29

50000

40000

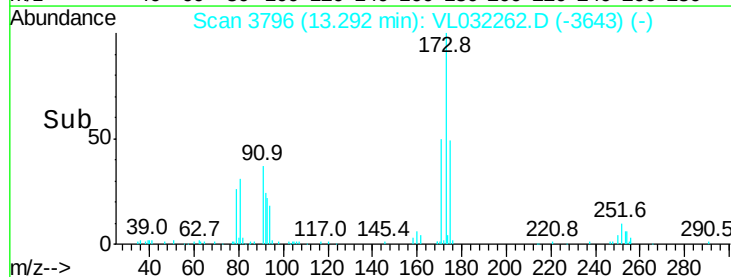
30000

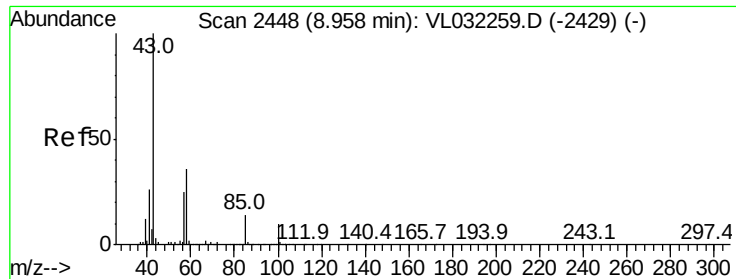
20000

10000

0

Time--> 13.25 13.30 13.35

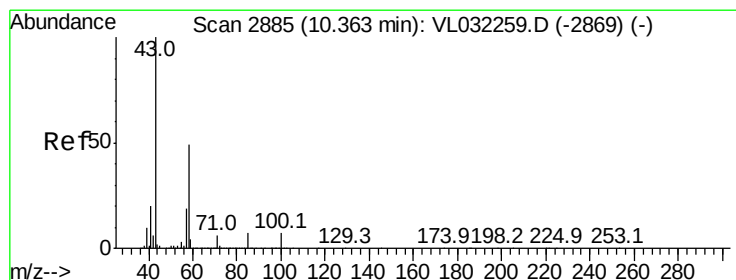
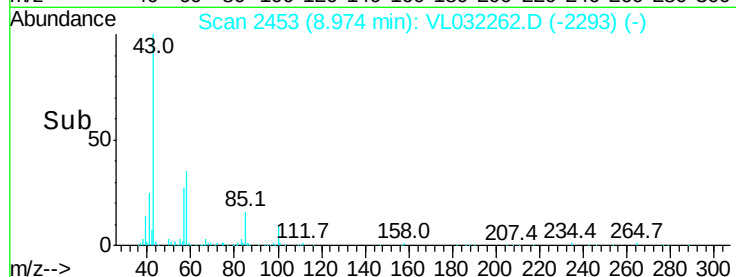
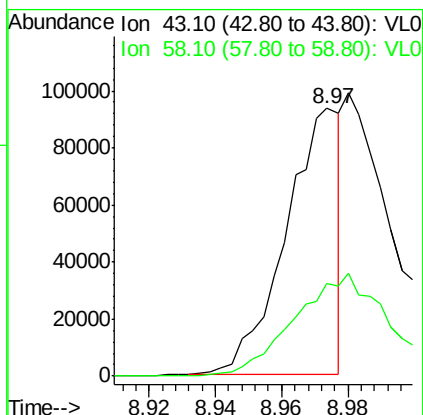
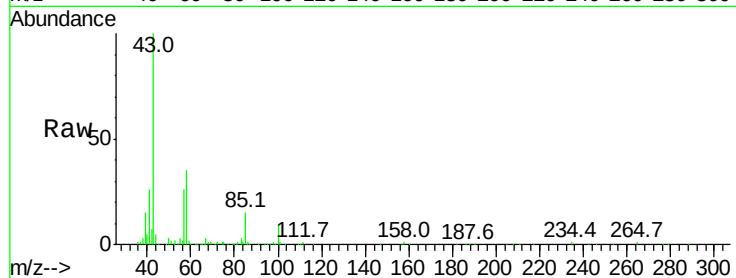




#50
4-Methyl-2-Pentanone
Concen: 0.238 ppbv
RT: 8.97 min Scan# 2453
Delta R.T. 0.02 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

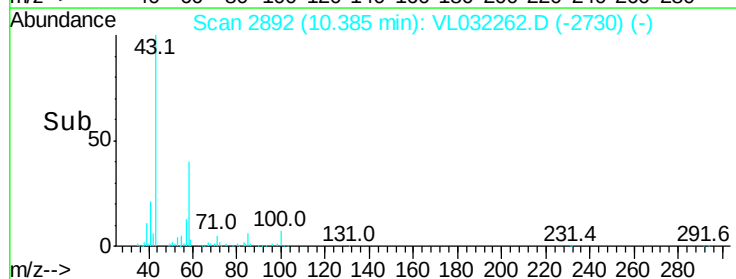
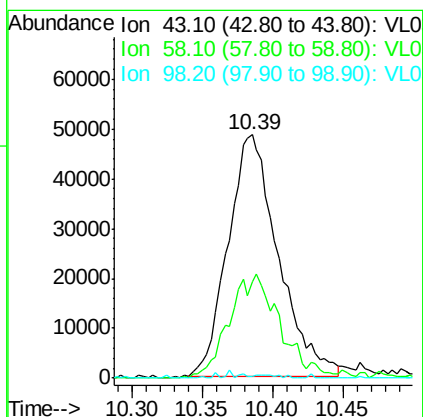
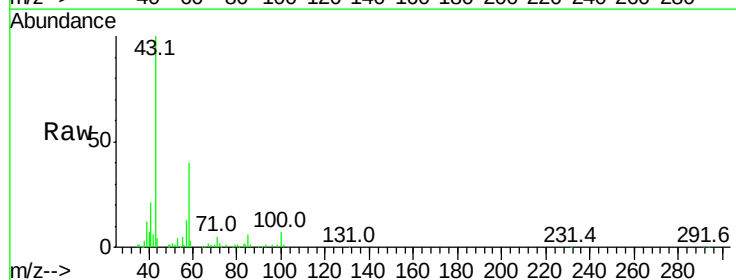
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

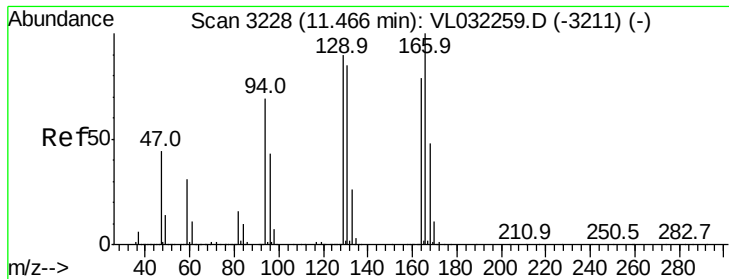
Tgt Ion: 43 Resp: 107049
Ion Ratio Lower Upper
43 100
58 0.0 29.2 43.8#



#51
2-Hexanone
Concen: 0.323 ppbv
RT: 10.39 min Scan# 2892
Delta R.T. 0.02 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion: 43 Resp: 121360
Ion Ratio Lower Upper
43 100
58 45.2 39.4 59.2
98 1.8 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.239 ppbv

RT: 11.46 min Scan# 3226

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:164 Resp: 33398

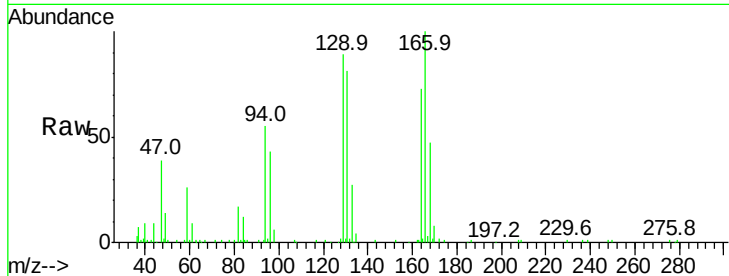
Ion Ratio Lower Upper

164 100

166 136.4 101.7 152.5

129 118.5 91.5 137.3

131 110.4 86.6 129.8

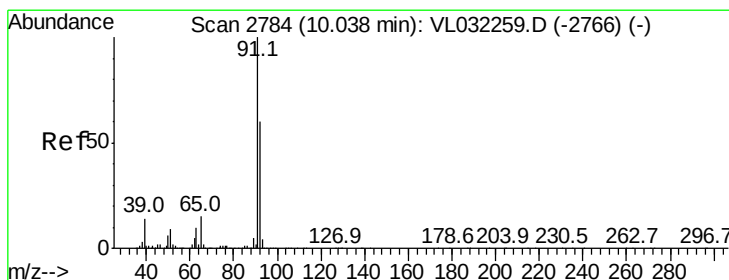
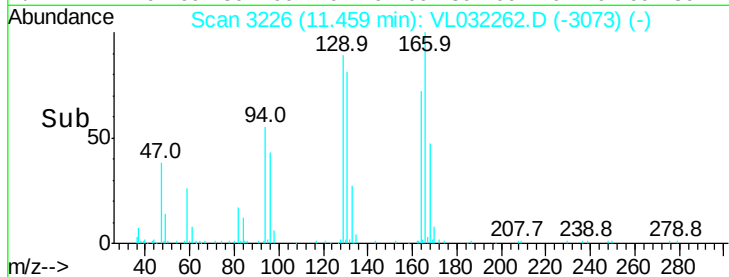
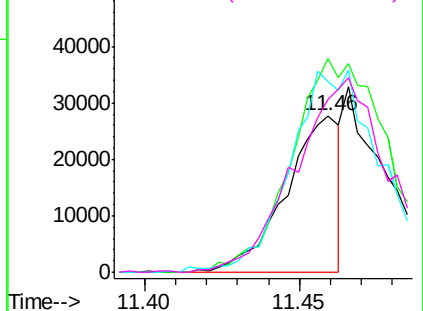


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.445 ppbv

RT: 10.03 min Scan# 2783

Delta R.T. -0.00 min

Lab File: VL032262.D

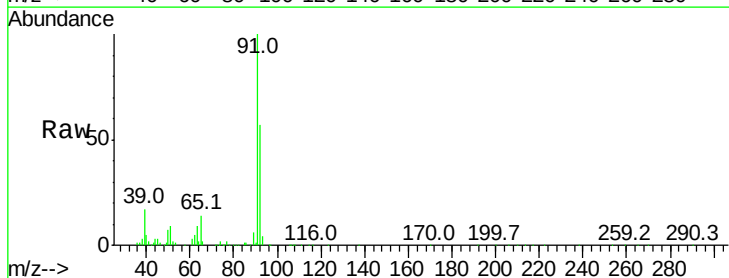
Acq: 18 Jul 2018 11:16

Tgt Ion: 91 Resp: 199154

Ion Ratio Lower Upper

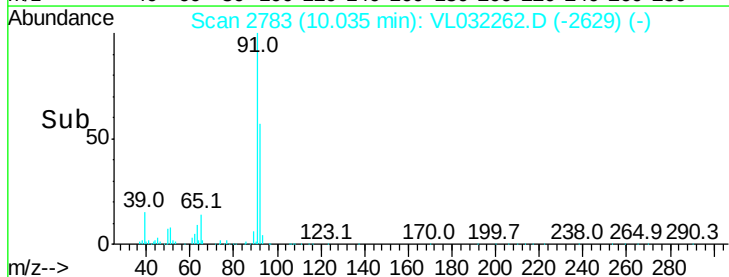
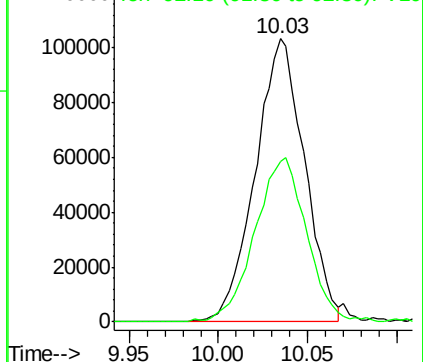
91 100

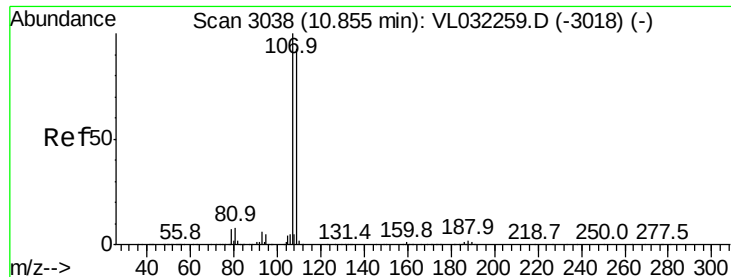
92 61.4 48.6 72.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.463 ppbv

RT: 10.85 min Scan# 3036

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

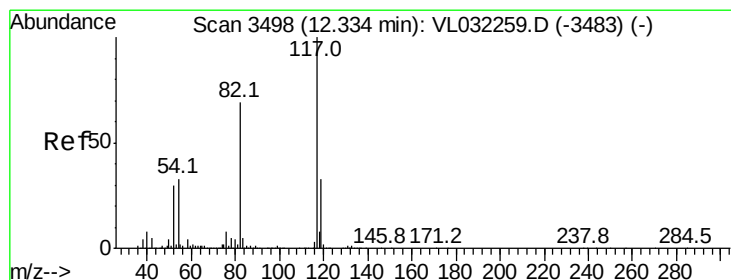
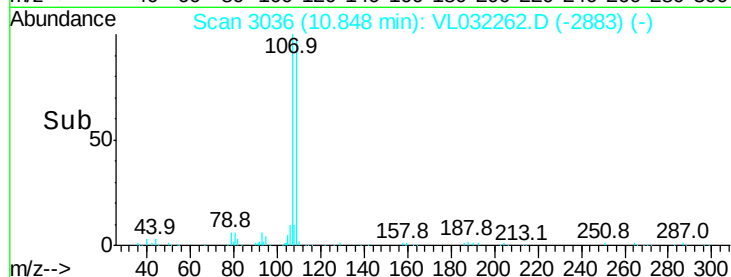
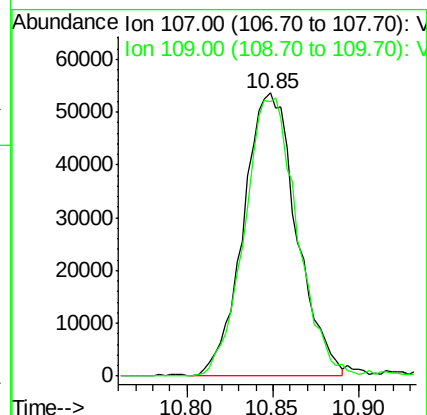
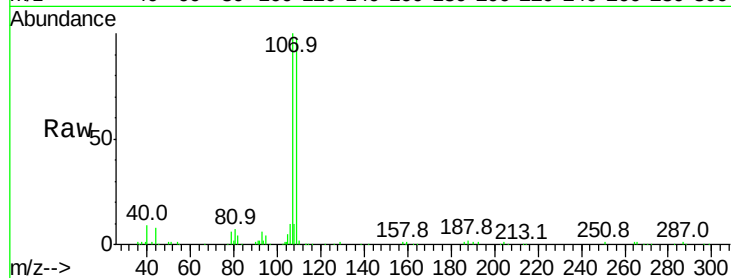
VSTDIC0.5

Tgt Ion:107 Resp: 114908

Ion Ratio Lower Upper

107 100

109 96.8 74.8 112.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.33 min Scan# 3497

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

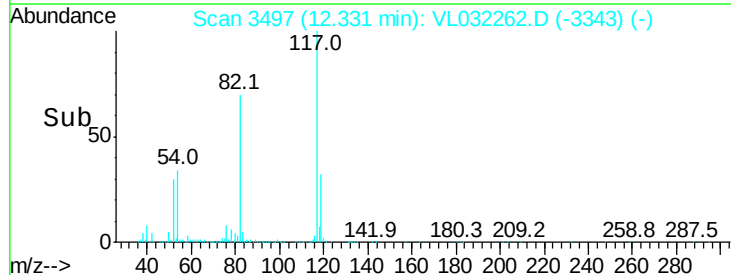
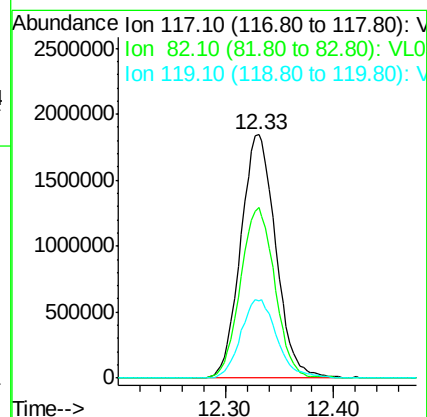
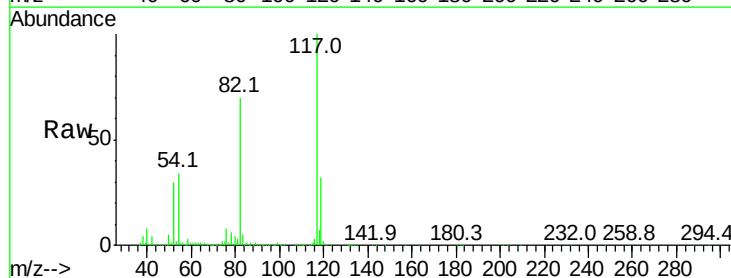
Tgt Ion:117 Resp: 4182192

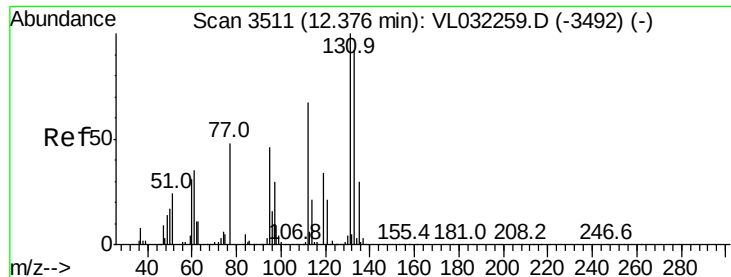
Ion Ratio Lower Upper

117 100

82 68.9 53.9 80.9

119 33.4 25.5 38.3





#56

1,1,1,2-Tetrachloroethane

Concen: 0.539 ppbv

RT: 12.37 min Scan# 3509

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

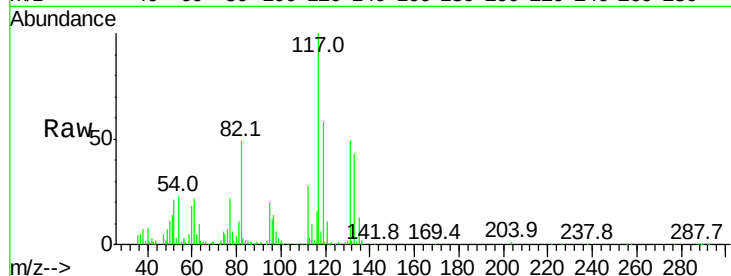
Tgt Ion:131 Resp: 97942

Ion Ratio Lower Upper

131 100

133 94.2 75.4 113.0

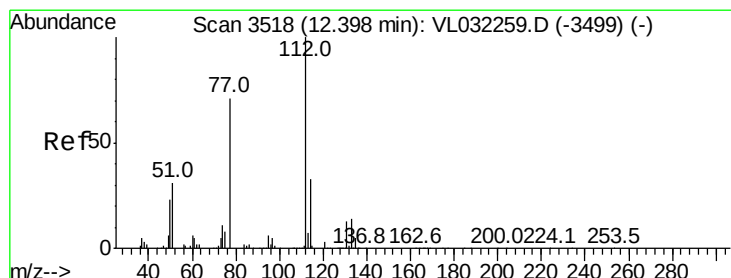
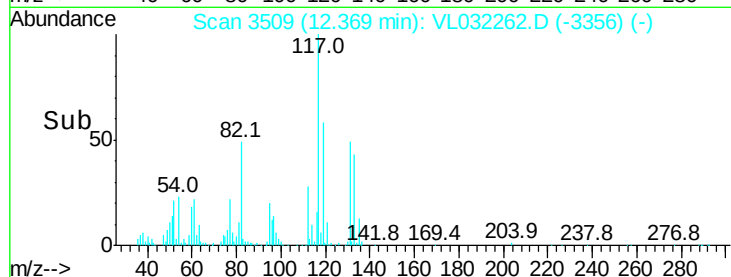
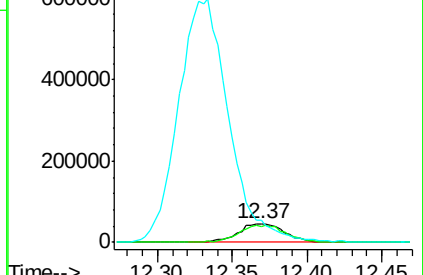
119 1431.0 49.4 74.2#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#57

Chlorobenzene

Concen: 0.514 ppbv

RT: 12.39 min Scan# 3517

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

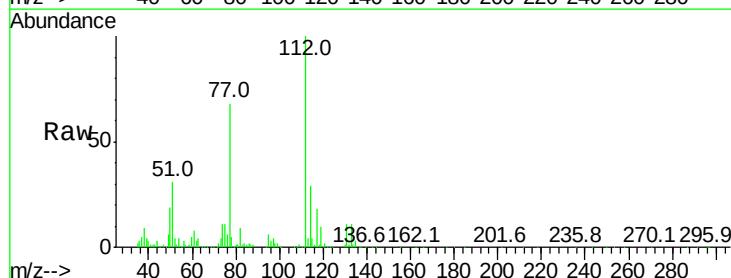
Tgt Ion:112 Resp: 181807

Ion Ratio Lower Upper

112 100

77 67.8 58.2 87.4

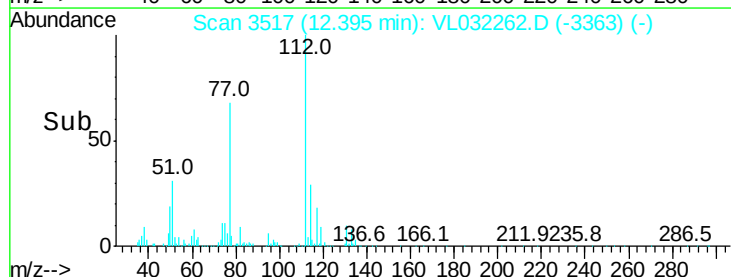
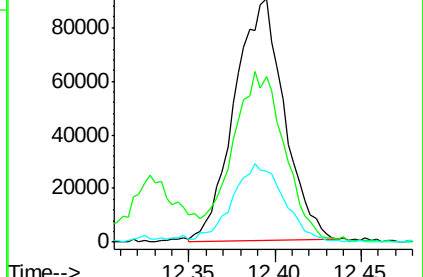
114 28.9 29.5 36.1#

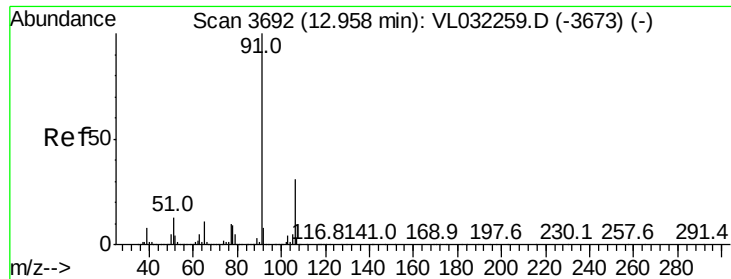


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 0.430 ppbv

RT: 12.95 min Scan# 3691

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

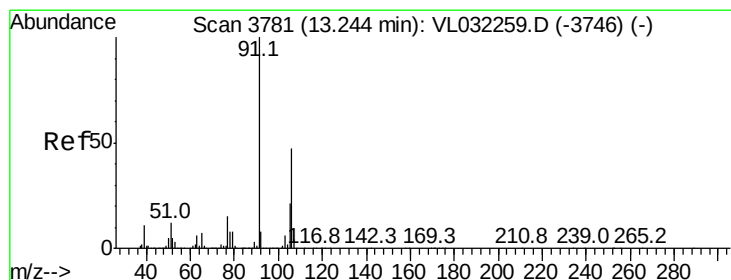
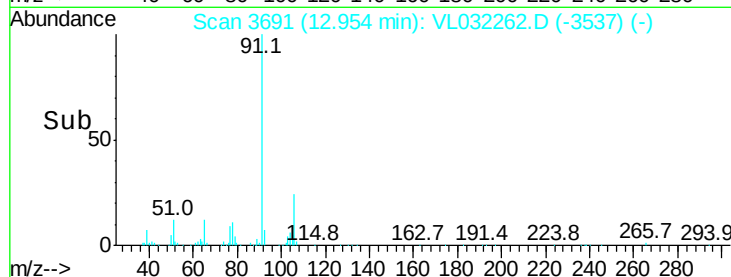
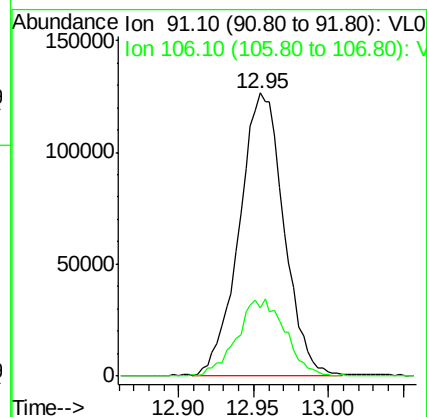
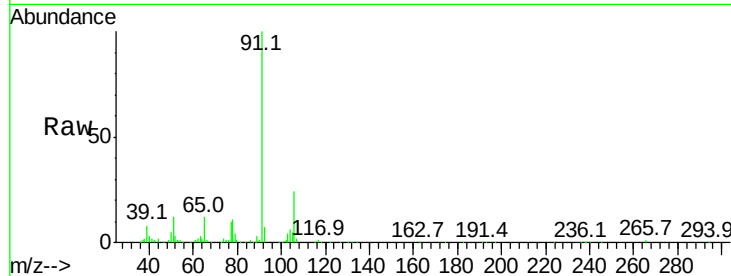
VSTDIC0.5

Tgt Ion: 91 Resp: 261805

Ion Ratio Lower Upper

91 100

106 23.9 24.5 36.7#



#59

m/p-Xylene

Concen: 0.431 ppbv

RT: 13.24 min Scan# 3780

Delta R.T. -0.00 min

Lab File: VL032262.D

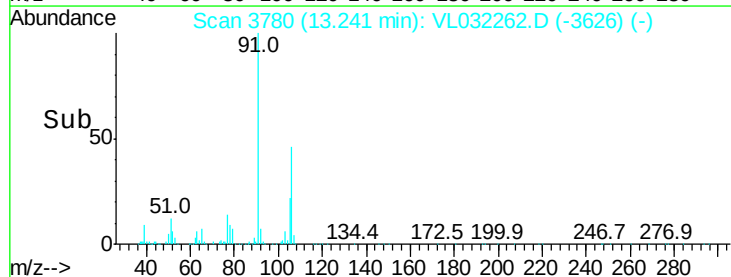
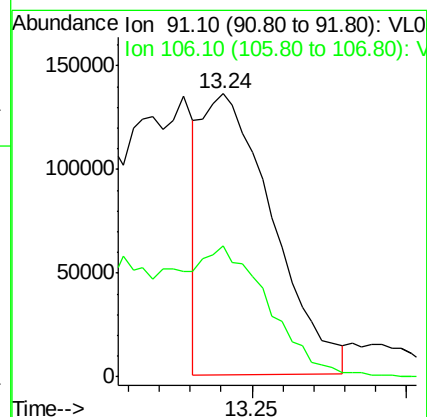
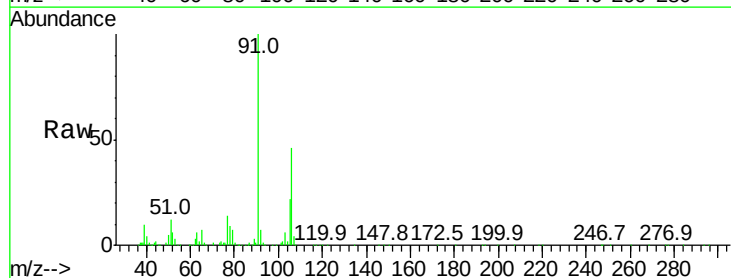
Acq: 18 Jul 2018 11:16

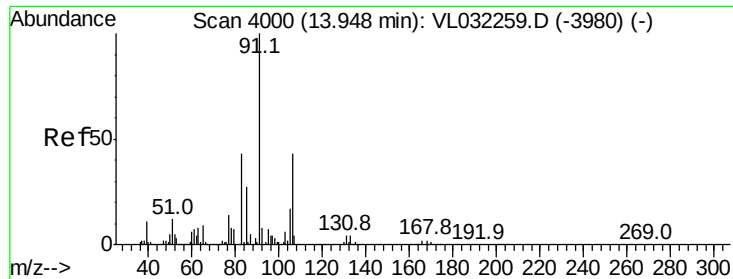
Tgt Ion: 91 Resp: 215742

Ion Ratio Lower Upper

91 100

106 101.4 36.2 54.2#





#60

o-Xylene

Concen: 0.503 ppbv

RT: 13.94 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

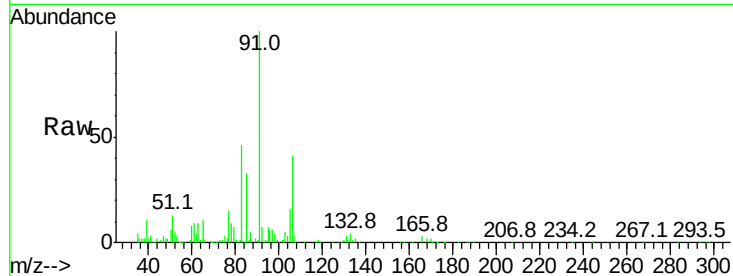
VSTDIC0.5

Tgt Ion: 91 Resp: 248716

Ion Ratio Lower Upper

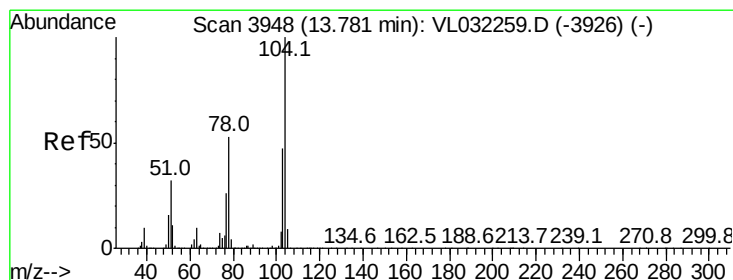
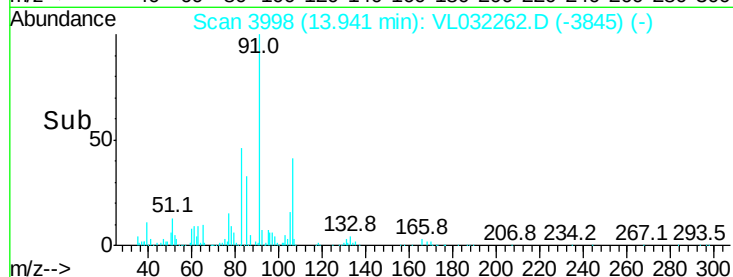
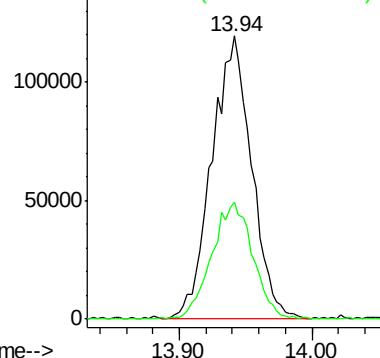
91 100

106 43.0 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.426 ppbv

RT: 13.78 min Scan# 3947

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

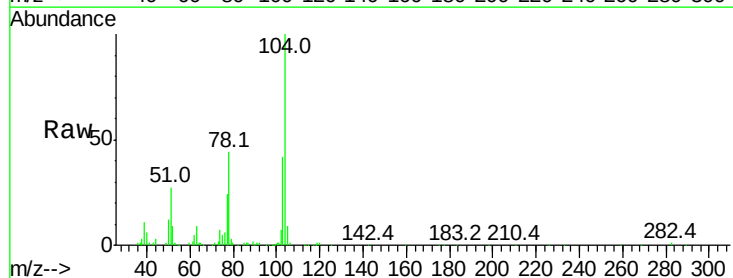
Tgt Ion: 104 Resp: 157974

Ion Ratio Lower Upper

104 100

78 54.5 43.2 64.8

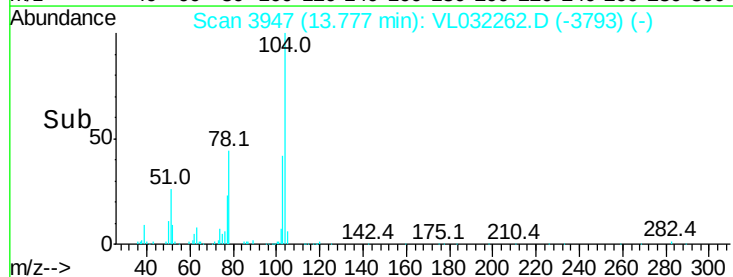
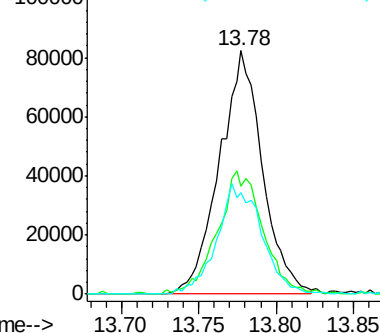
103 47.4 37.8 56.6

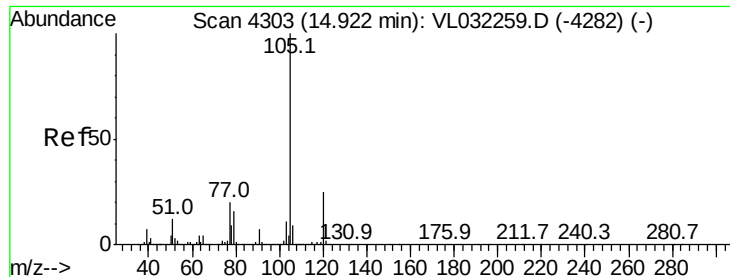


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





#62

Isopropylbenzene

Concen: 0.514 ppbv

RT: 14.92 min Scan# 4302

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

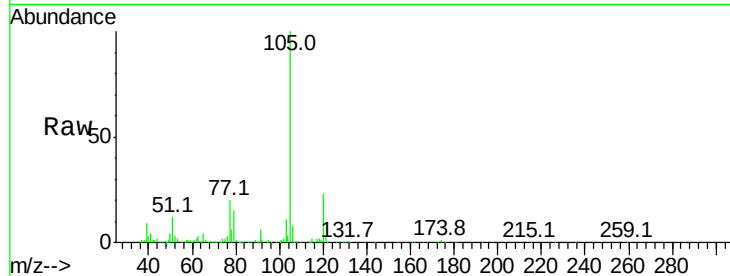
VSTDIC0.5

Tgt Ion:105 Resp: 356202

Ion Ratio Lower Upper

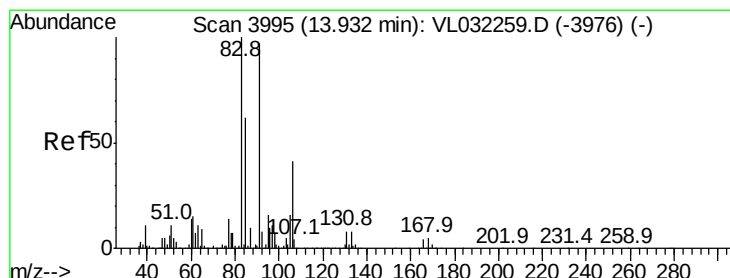
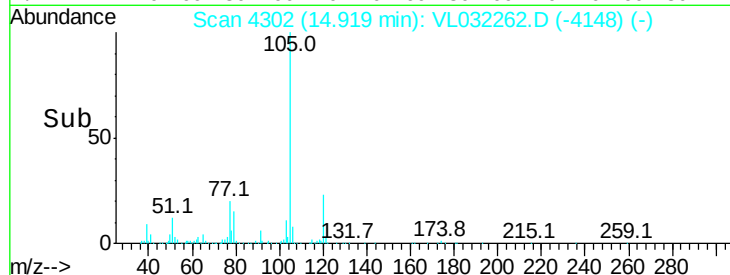
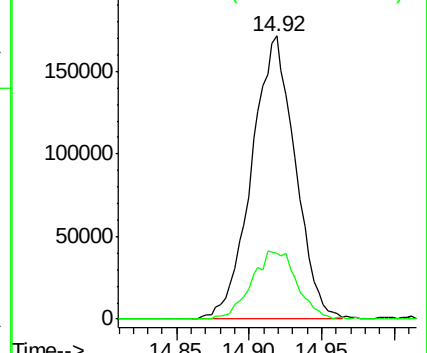
105 100

120 25.2 20.2 30.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.552 ppbv

RT: 13.92 min Scan# 3992

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

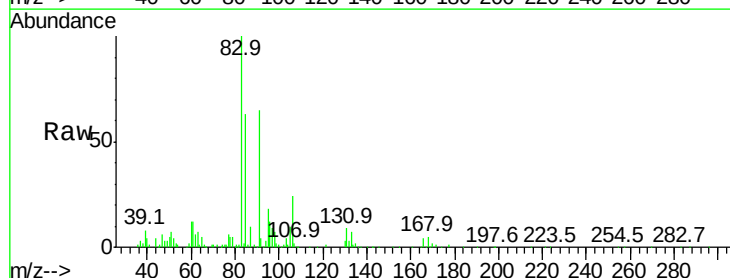
Tgt Ion: 83 Resp: 222225

Ion Ratio Lower Upper

83 100

131 8.7 4.2 12.6

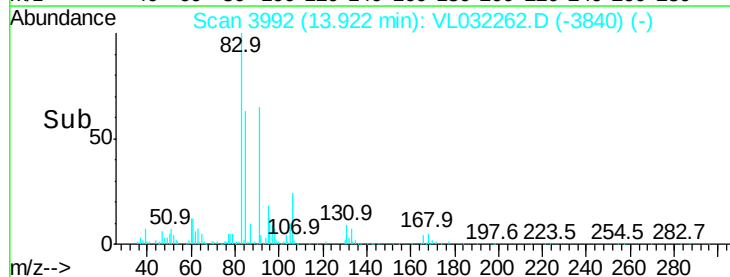
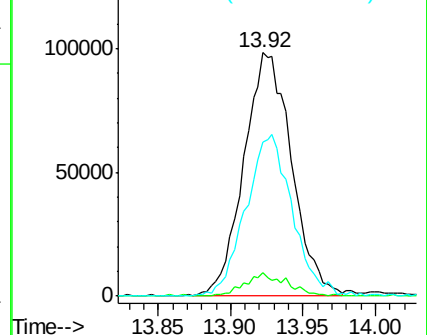
85 66.1 32.2 96.6

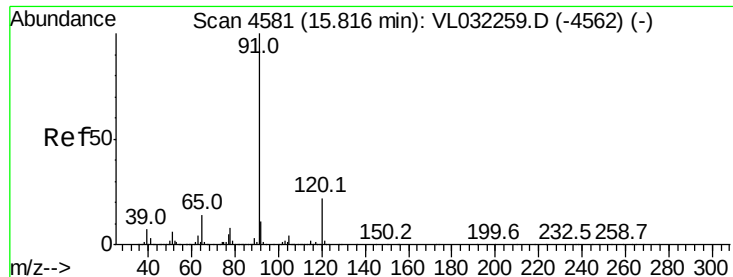


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.500 ppbv

RT: 15.81 min Scan# 4578

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

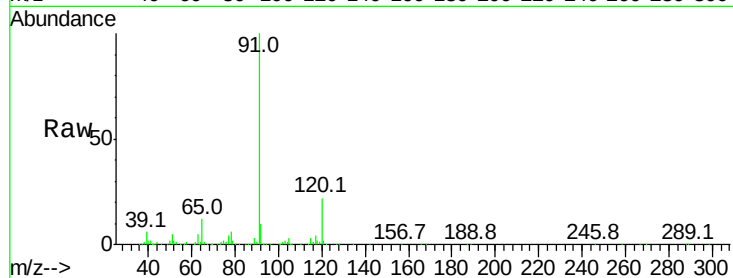
VSTDIC0.5

Tgt Ion:120 Resp: 87769

Ion Ratio Lower Upper

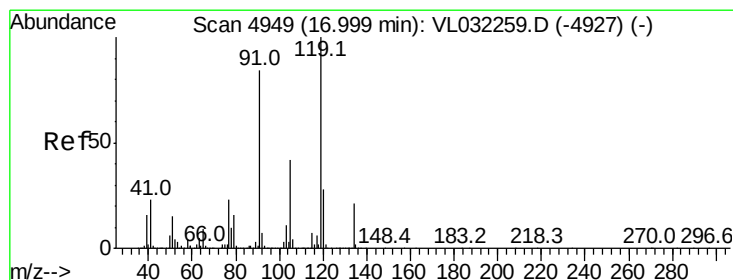
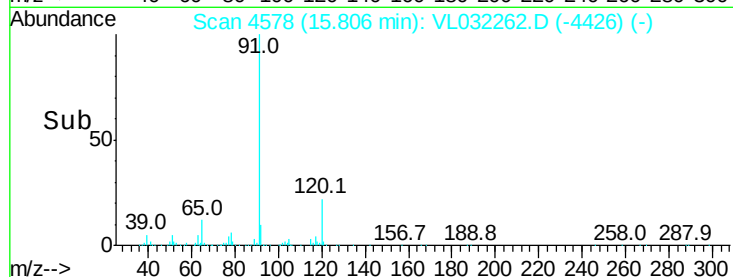
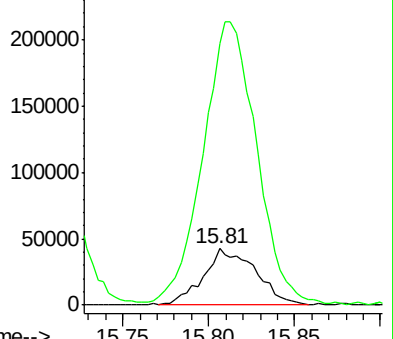
120 100

91 527.4 384.4 576.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.239 ppbv

RT: 16.99 min Scan# 4947

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

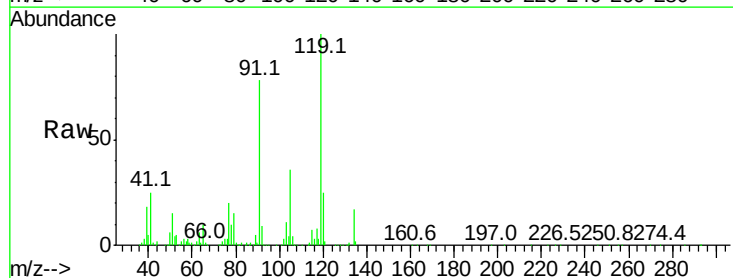
Tgt Ion:119 Resp: 138731

Ion Ratio Lower Upper

119 100

91 0.0 68.2 102.4#

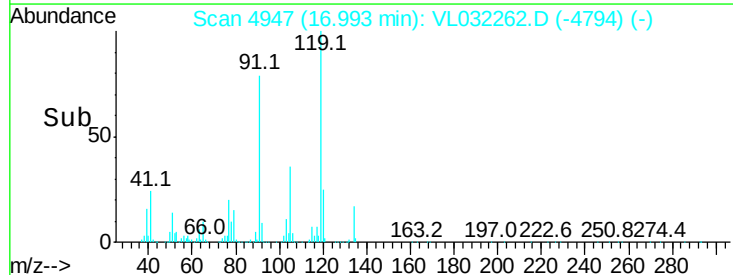
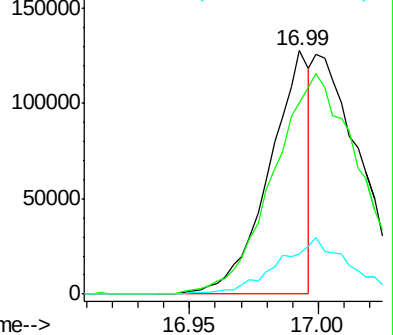
134 0.0 15.6 23.4#

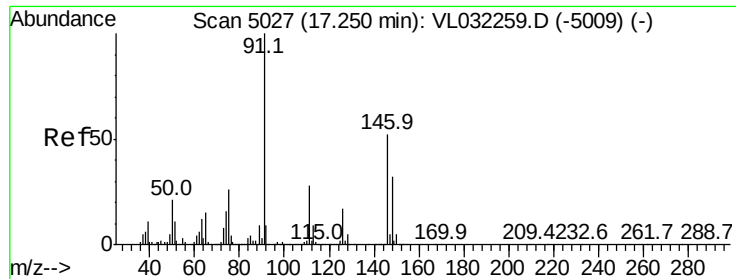


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

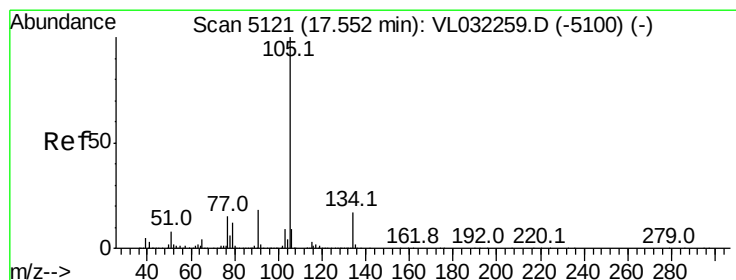
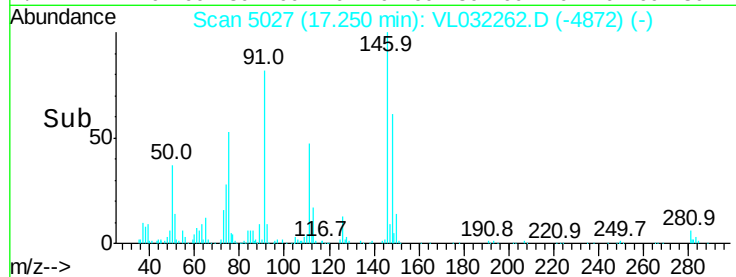
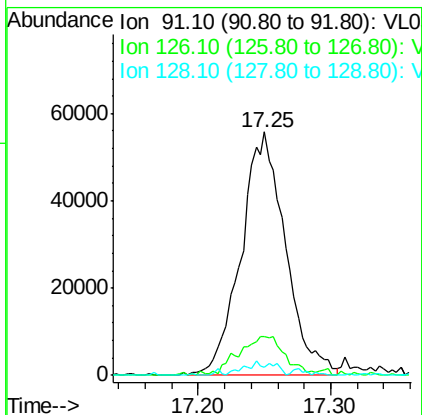
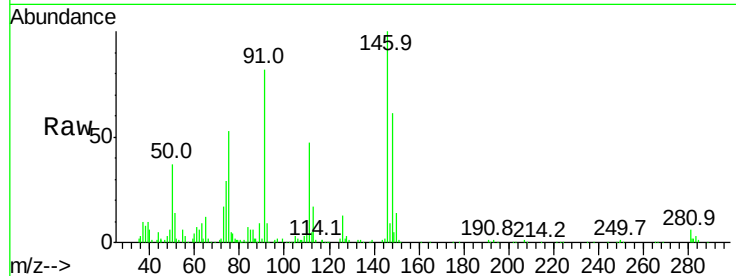




#66
Benzyl Chloride
Concen: 0.438 ppbv
RT: 17.25 min Scan# 5027
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

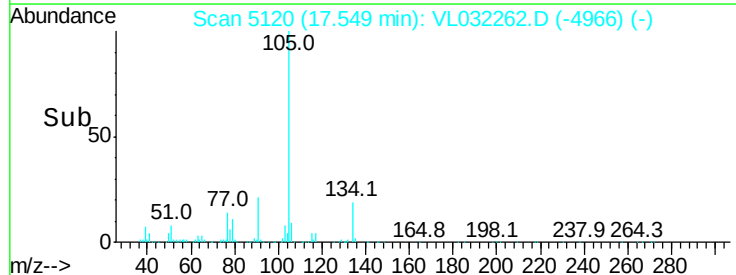
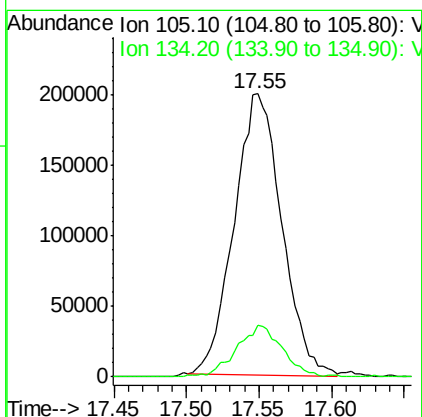
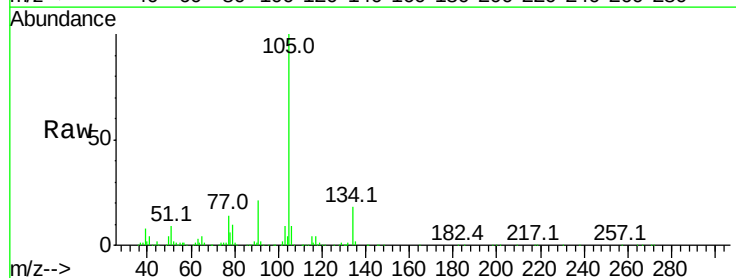
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

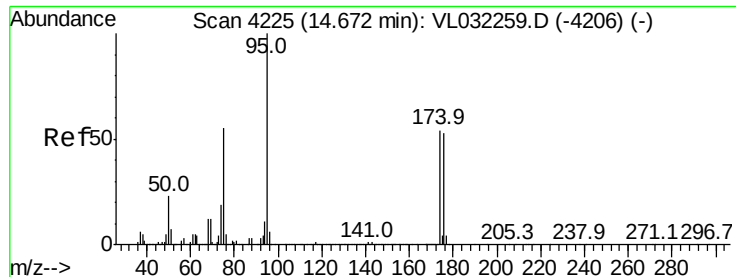
Tgt Ion: 91 Resp: 128843
Ion Ratio Lower Upper
91 100
126 18.6 13.4 20.2
128 5.3 4.3 6.5



#67
sec-Butylbenzene
Concen: 0.539 ppbv
RT: 17.55 min Scan# 5120
Delta R.T. -0.00 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion: 105 Resp: 457237
Ion Ratio Lower Upper
105 100
134 17.9 14.0 21.0

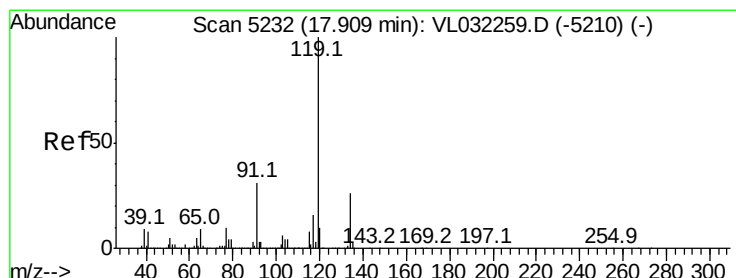
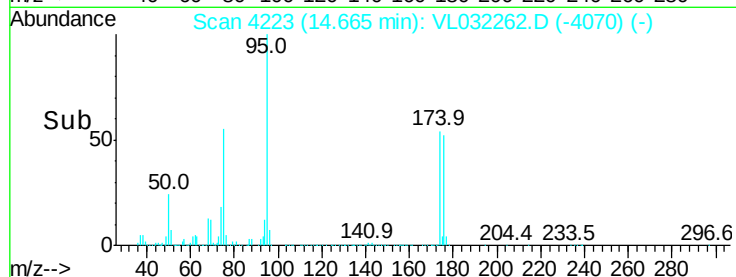
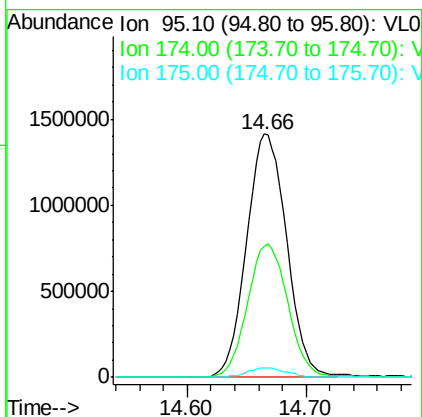
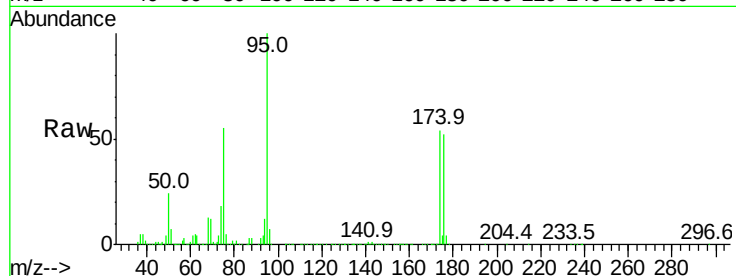




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.167 ppbv
 RT: 14.66 min Scan# 4223
 Delta R.T. -0.01 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

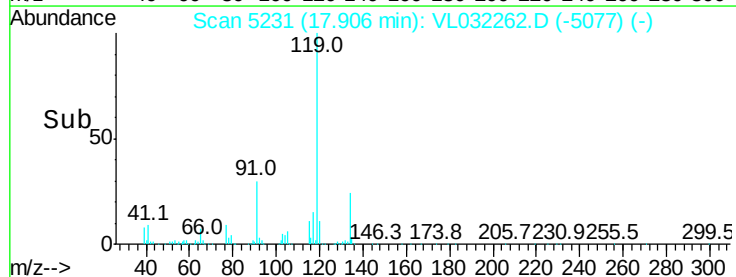
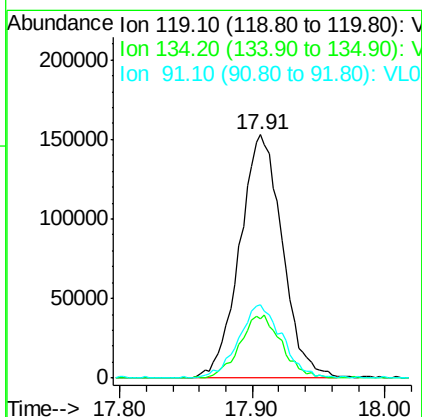
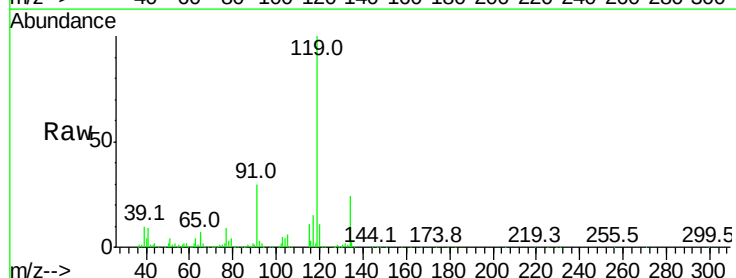
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

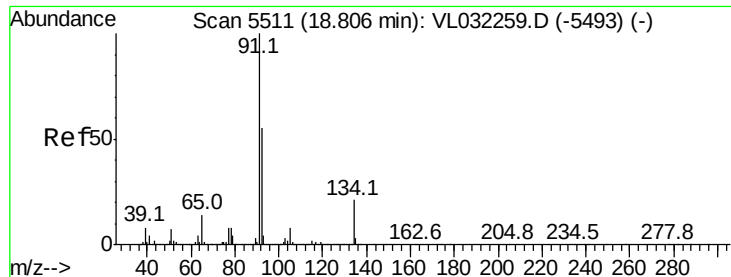
Tgt Ion: 95 Resp: 3291464
 Ion Ratio Lower Upper
 95 100
 174 55.4 44.3 66.5
 175 4.0 3.3 4.9



#69
 p-Isopropyltoluene
 Concen: 0.517 ppbv
 RT: 17.91 min Scan# 5231
 Delta R.T. -0.00 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Tgt Ion: 119 Resp: 341344
 Ion Ratio Lower Upper
 119 100
 134 25.4 20.3 30.5
 91 31.0 24.1 36.1





#70

n-Butylbenzene

Concen: 0.507 ppbv

RT: 18.80 min Scan# 5510

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

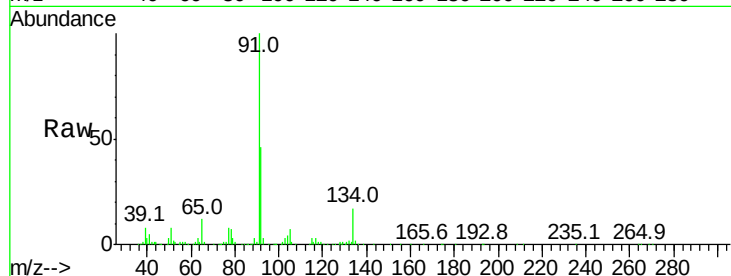
Tgt Ion: 91 Resp: 370064

Ion Ratio Lower Upper

91 100

92 52.3 43.8 65.6

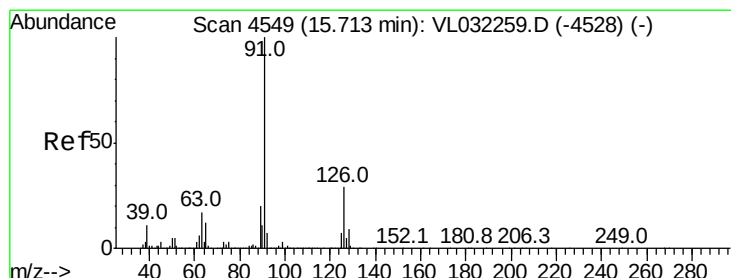
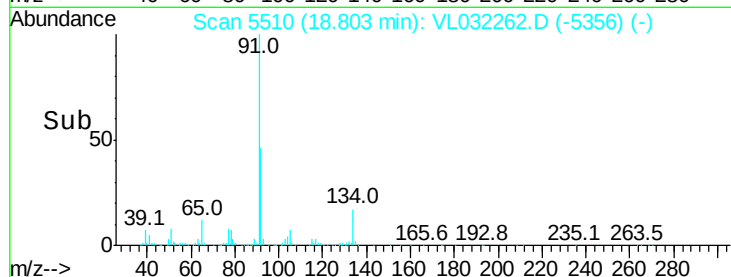
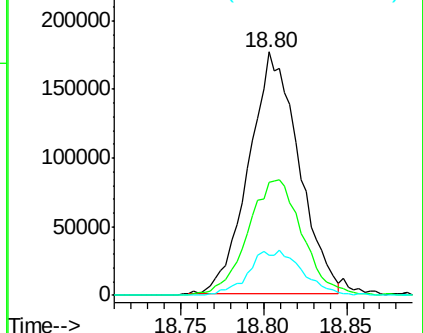
134 20.1 17.1 25.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



#71

2-Chlorotoluene

Concen: 0.496 ppbv

RT: 15.71 min Scan# 4547

Delta R.T. -0.01 min

Lab File: VL032262.D

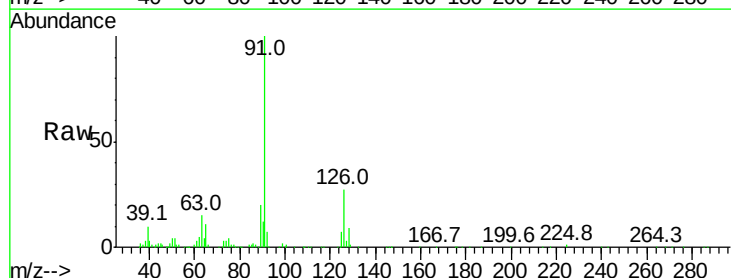
Acq: 18 Jul 2018 11:16

Tgt Ion: 91 Resp: 270420

Ion Ratio Lower Upper

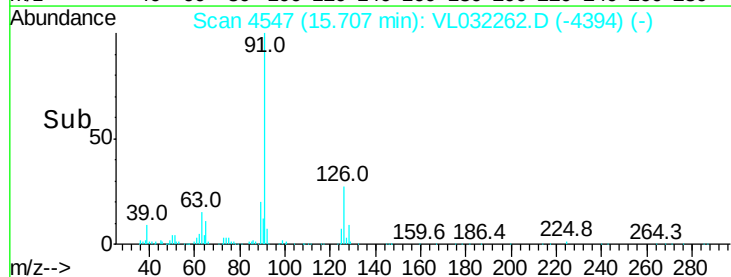
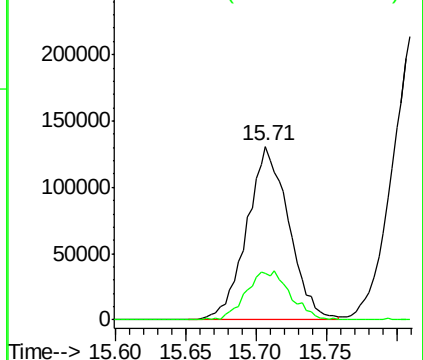
91 100

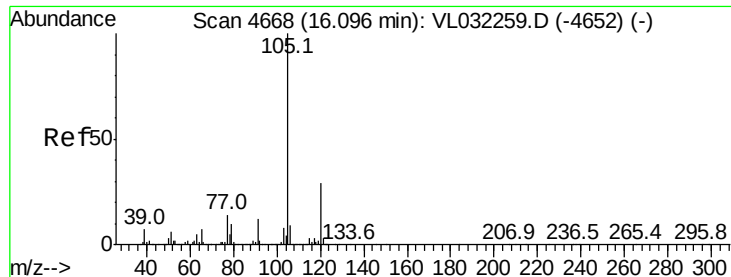
126 29.7 11.6 46.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.467 ppbv

RT: 16.09 min Scan# 4668

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

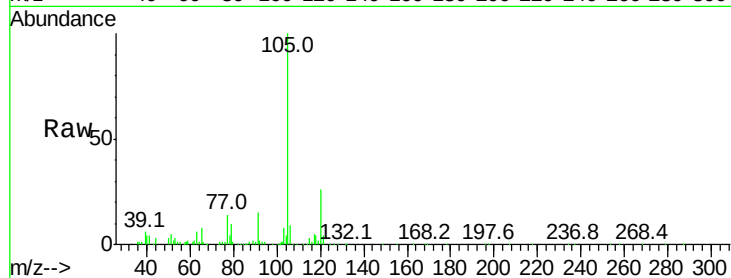
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:	105	Resp:	259331
Ion	Ratio	Lower	Upper
105	100		
120	29.6	23.0	34.6
91	15.8	10.1	15.1#
77	14.8	11.4	17.0

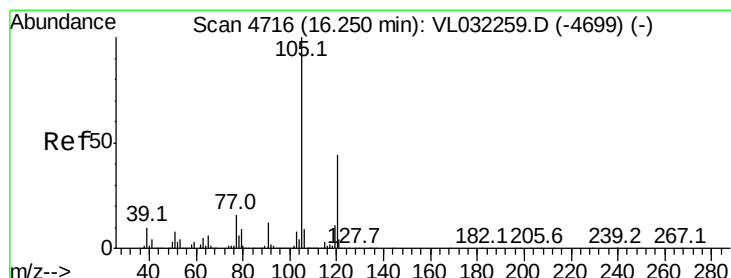
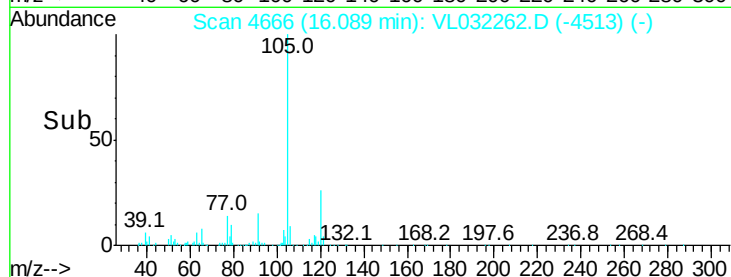
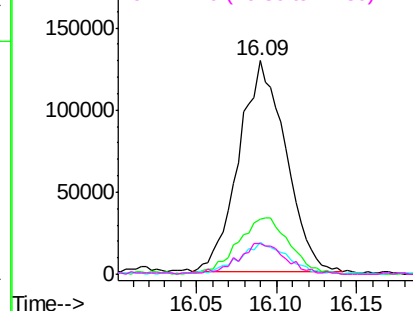


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.517 ppbv

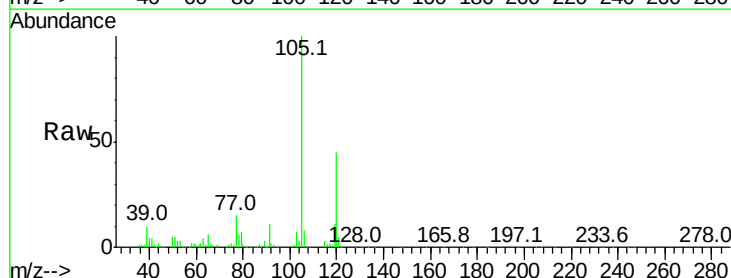
RT: 16.25 min Scan# 4716

Delta R.T. -0.00 min

Lab File: VL032262.D

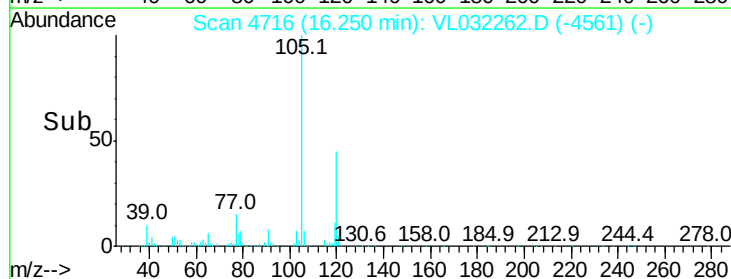
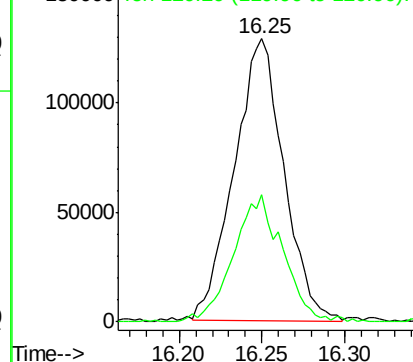
Acq: 18 Jul 2018 11:16

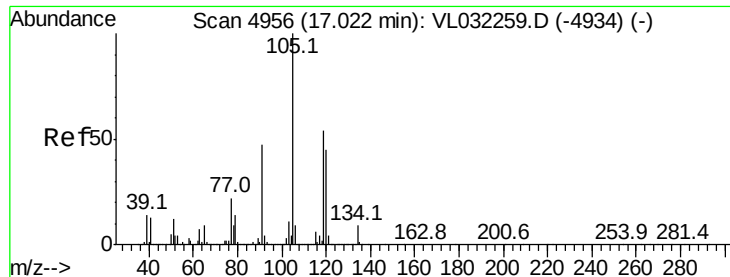
Tgt Ion:	105	Resp:	266868
Ion	Ratio	Lower	Upper
105	100		
120	43.7	35.5	53.3



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: 0.576 ppbv

RT: 17.02 min Scan# 4954

Delta R.T. -0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

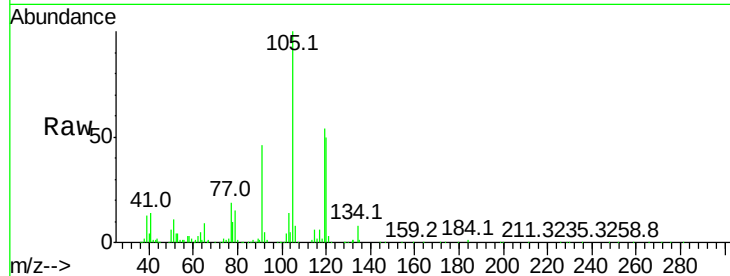
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:	105	Resp:	303677
Ion Ratio	Lower	Upper	
105	100		
120	49.5	35.8	53.6
91	45.4	38.2	57.4
77	18.6	17.5	26.3

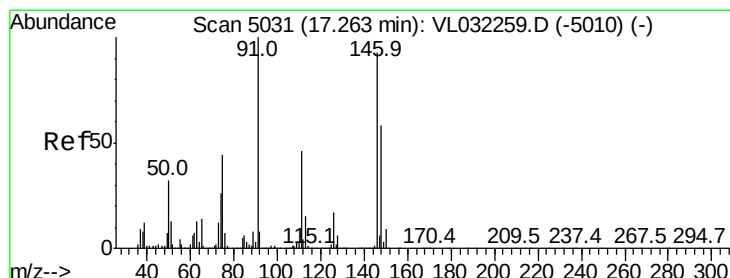
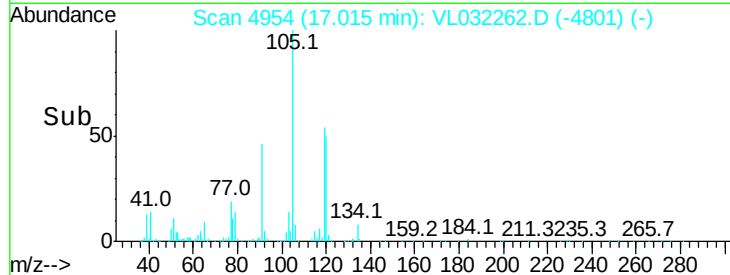
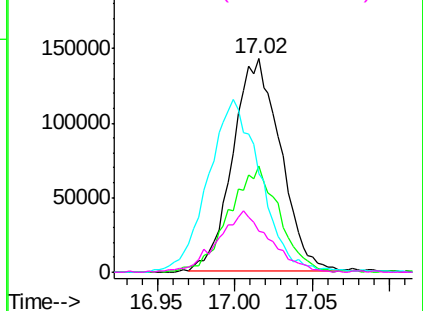


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 0.242 ppbv

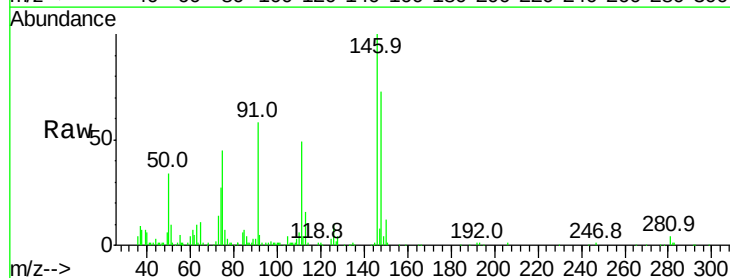
RT: 17.26 min Scan# 5030

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

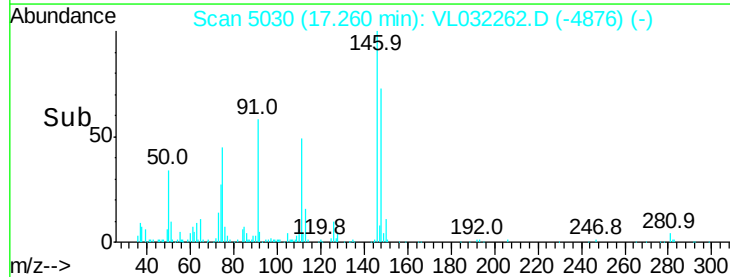
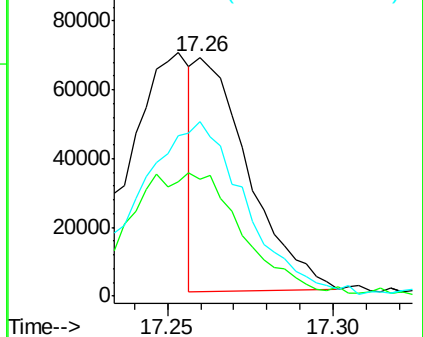
Tgt Ion:	146	Resp:	76120
Ion Ratio	Lower	Upper	
146	100		
111	118.8	25.1	75.4#
148	155.7	31.8	95.3#

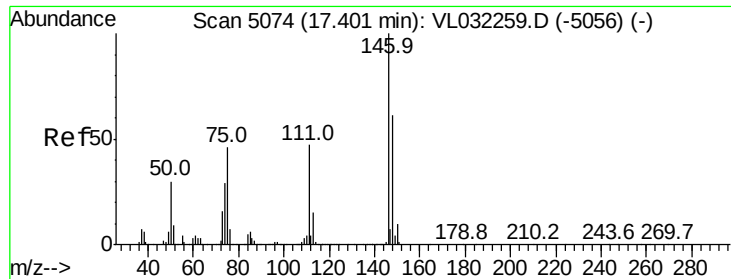


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

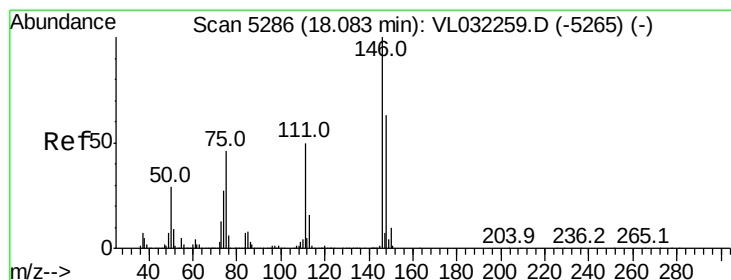
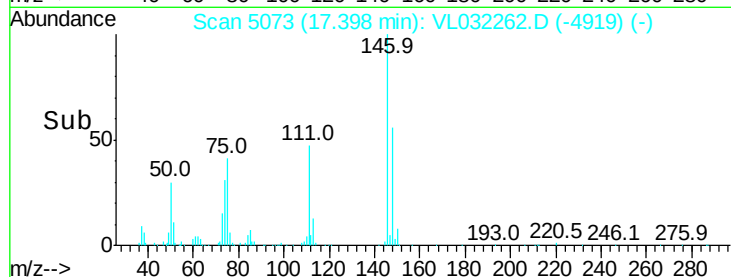
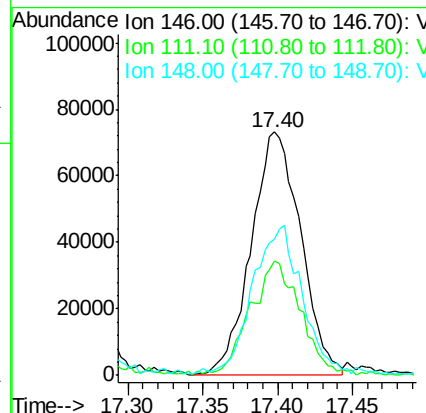
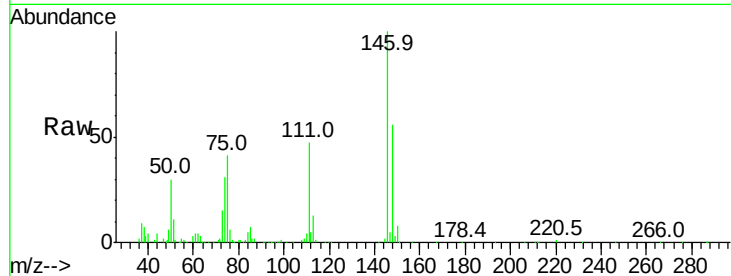




#76
 1,4-Dichlorobenzene
 Concen: 0.544 ppbv
 RT: 17.40 min Scan# 5073
 Delta R.T. -0.00 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

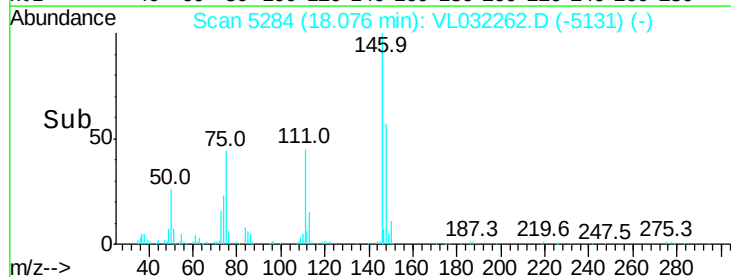
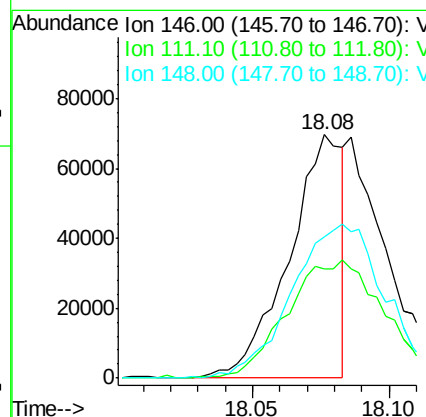
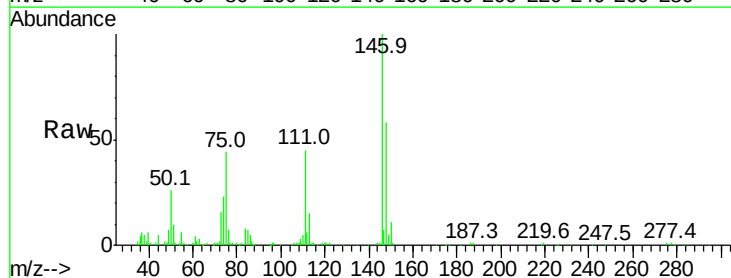
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

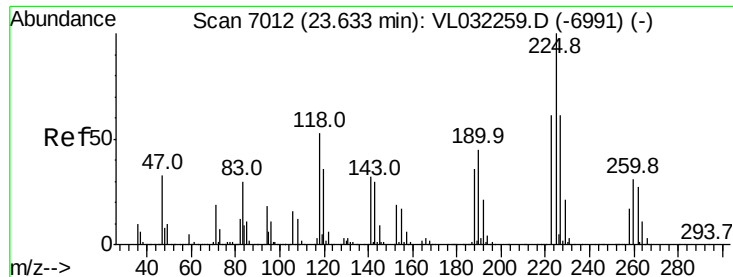
Tgt Ion:146 Resp: 167771
 Ion Ratio Lower Upper
 146 100
 111 47.1 24.1 72.2
 148 63.5 31.9 95.9



#77
 1,2-Dichlorobenzene
 Concen: 0.303 ppbv
 RT: 18.08 min Scan# 5284
 Delta R.T. -0.01 min
 Lab File: VL032262.D
 Acq: 18 Jul 2018 11:16

Tgt Ion:146 Resp: 94872
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.6 76.8#
 148 0.0 31.9 95.5#





#78

Hexachloro-1,3-Butadiene

Concen: 0.386 ppbv

RT: 23.63 min Scan# 7011

Delta R.T. -0.00 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

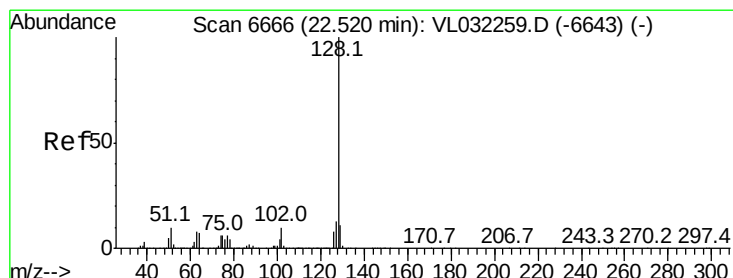
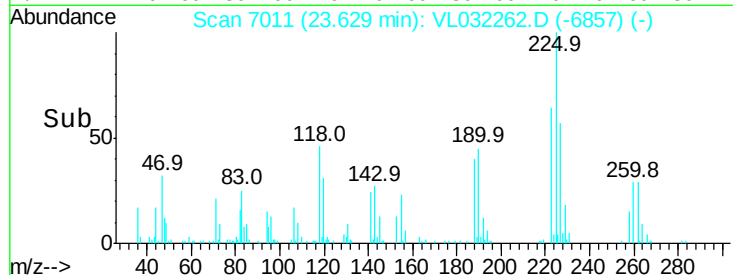
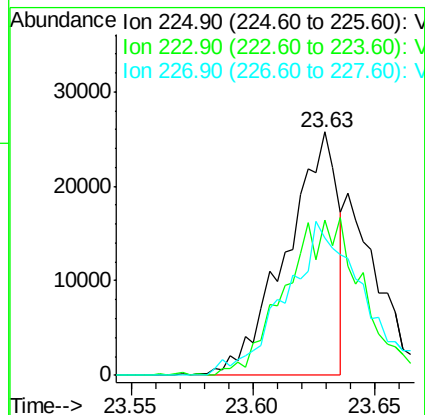
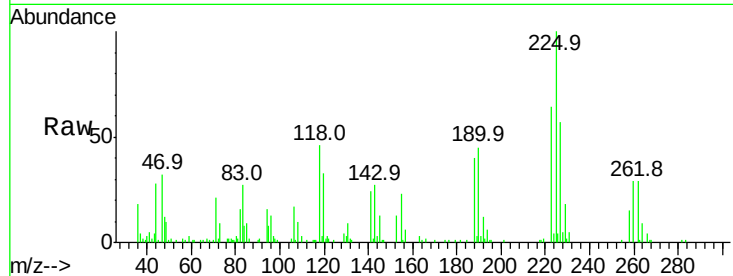
Tgt Ion:225 Resp: 37597

Ion Ratio Lower Upper

225 100

223 0.0 50.6 75.8#

227 94.1 51.5 77.3#



#79

Naphthalene

Concen: 0.576 ppbv

RT: 22.53 min Scan# 6668

Delta R.T. 0.01 min

Lab File: VL032262.D

Acq: 18 Jul 2018 11:16

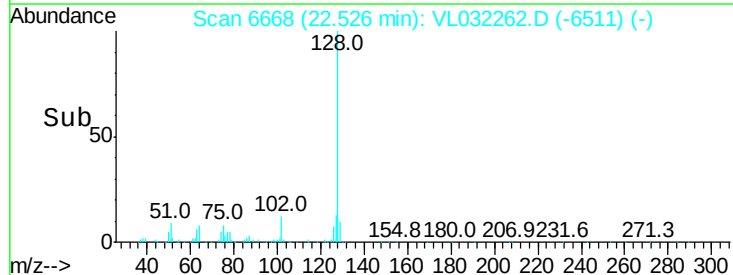
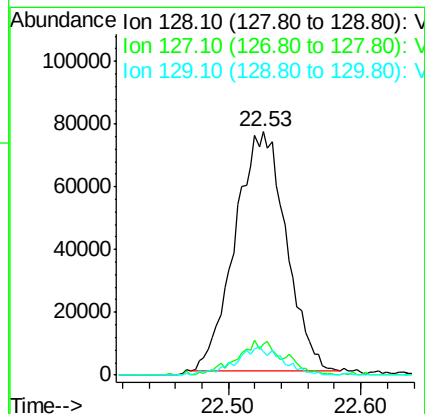
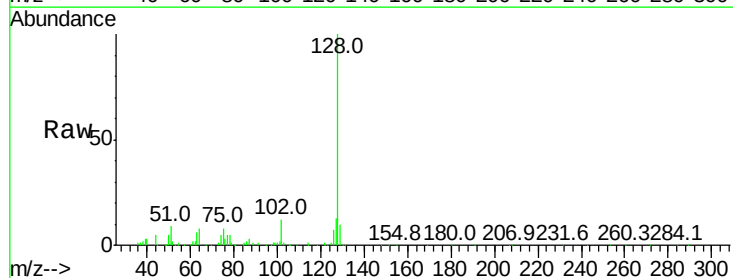
Tgt Ion:128 Resp: 203974

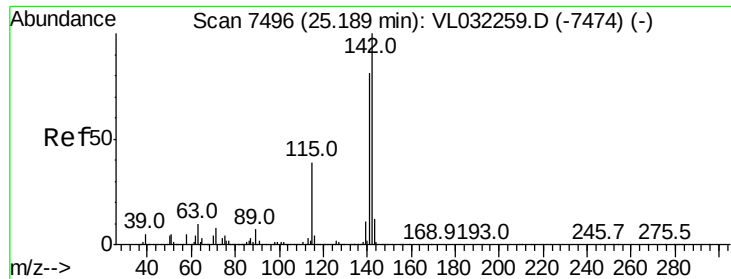
Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

129 10.0 8.6 12.8

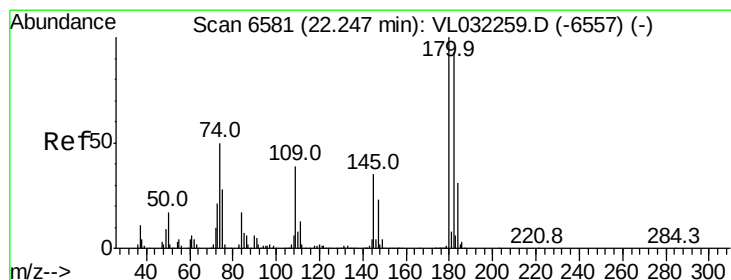
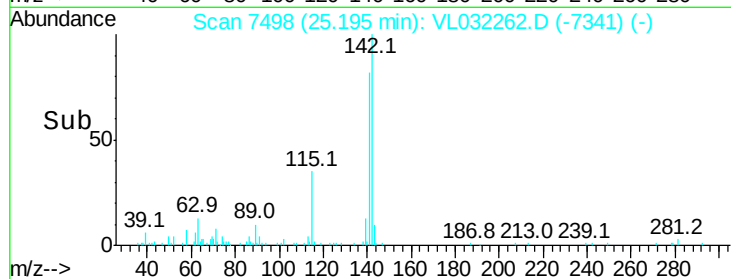
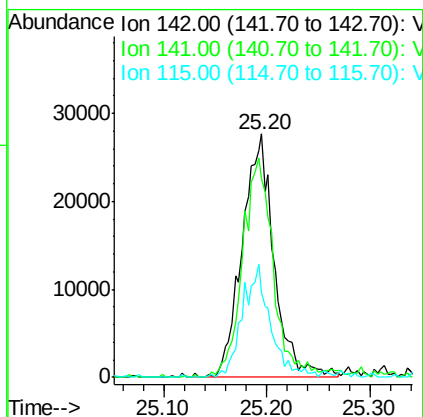
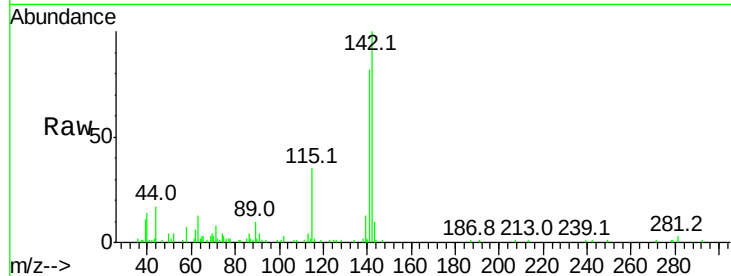




#80
Naphthalene, 2-methyl-
Concen: 0.526 ppbv
RT: 25.20 min Scan# 7498
Delta R.T. 0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	67.1	100.7
115	40.5	32.5	48.7



#81
1,2,4-Trichlorobenzene
Concen: 0.582 ppbv
RT: 22.25 min Scan# 6583
Delta R.T. 0.01 min
Lab File: VL032262.D
Acq: 18 Jul 2018 11:16

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.3	76.6	114.8
184	31.0	24.4	36.6

