

Data File : VL032516.D
Acq On : 24 Sep 2018 17:45
Operator : SY/AP
Sample : VSTDIC001
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: Sep 24 18:34:50 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 24 18:32:13 2018
QLast Update : Mon Sep 24 18:32:13 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1557002	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3650412	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3571844	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2739079	10.33	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.09	85	163736	0.822	ppbv	92
3) Chlorodifluoromethane	3.03	51	140626	0.998	ppbv	100
4) Chloromethane	3.19	50	82798	0.970	ppbv	97
5) Vinyl Chloride	3.31	62	77877	0.925	ppbv	92
6) Bromomethane	3.53	94	43749	0.989	ppbv	93
7) Chloroethane	3.62	64	27774	0.953	ppbv	96
8) Dichlorotetrafluoroethane	3.24	85	175054	0.990	ppbv	98
9) Propene	3.06	41	58625	1.031	ppbv	98
10) Heptane	8.28	43	209593	1.028	ppbv	97
11) Trichlorofluoromethane	4.02	101	185462	1.033	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.57	101	152872	1.256	ppbv	98
13) Ethanol	3.68	45	18246	1.030	ppbv	80
14) Bromoethene	3.81	108	51600	1.001	ppbv #	97
15) Acetone	3.93	43	150504	1.073	ppbv	99
16) 1,3-Butadiene	3.38	39	64488	0.977	ppbv	89
17) tert-Butyl alcohol	4.39	59	3127	0.145	ppbv #	100
18) 1,1-Dichloroethene	4.38	96	69396	1.248	ppbv	90
19) Isopropyl Alcohol	4.05	45	106208	1.155	ppbv #	95
20) Methylene Chloride	4.43	84	75491	1.412	ppbv	97
21) Allyl Chloride	4.50	41	113767	1.222	ppbv	96
22) trans-1,2-Dichloroethene	4.98	96	64302	1.066	ppbv	94
23) Vinyl Acetate	5.18	43	251301	1.081	ppbv #	97
24) 1,1-Dichloroethane	5.12	63	211353	1.104	ppbv	98
25) Ethyl Acetate	5.80	43	340502	1.028	ppbv	99
26) Hexane	5.80	57	152406	1.028	ppbv	94
27) Carbon Disulfide	4.64	76	164426	1.201	ppbv #	88
28) Methyl tert-Butyl Ether	5.15	73	193531	1.063	ppbv	96
29) Chloroform	5.87	83	242701	1.074	ppbv	91
30) Cyclohexane	7.27	84	71718	0.661	ppbv #	1
31) cis-1,2-Dichloroethene	5.67	61	71689	0.534	ppbv	95
32) 1,1,1-Trichloroethane	6.65	97	247554	1.175	ppbv	98
34) 2-Butanone	5.36	43	220639	0.910	ppbv	99
35) Carbon Tetrachloride	7.16	117	249918	1.019	ppbv	94
36) Benzene	7.03	78	304618	0.981	ppbv	97
37) 1,2-Dichloroethane	6.44	62	186411	0.979	ppbv	99
38) Trichloroethene	7.99	130	112719	0.955	ppbv	98
39) 1,2-Dichloropropane	7.77	63	134006	1.008	ppbv	99
41) Tetrahydrofuran	6.19	42	109517	0.830	ppbv	99
42) Bromodichloromethane	7.95	83	270339	1.030	ppbv	97
43) Methyl Methacrylate	8.17	69	114653	0.870	ppbv	99
44) 2,2,4-Trimethylpentane	8.02	57	597033	0.994	ppbv	98

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 24 18:32:13 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.44	75	134590	0.954	ppbv #	87
46) cis-1,3-Dichloropropene	8.87	75	160770	0.892	ppbv	93
47) 1,1,2-Trichloroethane	9.64	97	65530	0.464	ppbv	94
48) Dibromochloromethane	10.48	129	230440	1.177	ppbv	100
49) Bromoform	13.23	173	93811	0.551	ppbv #	27
50) 4-Methyl-2-Pentanone	8.91	43	340488	0.932	ppbv	97
51) 2-Hexanone	10.32	43	269228	1.144	ppbv #	93
52) Tetrachloroethene	11.40	164	99115	1.029	ppbv	93
53) Toluene	9.98	91	336600	1.037	ppbv	100
54) 1,2-Dibromoethane	10.79	107	207291	1.093	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.31	131	175696	1.091	ppbv #	1
57) Chlorobenzene	12.34	112	141085	0.494	ppbv	95
58) Ethyl Benzene	12.89	91	432593	1.012	ppbv	97
59) m/p-Xylene	13.18	91	200629	0.526	ppbv #	31
60) o-Xylene	13.88	91	402249	1.075	ppbv	99
61) Styrene	13.72	104	230618	0.952	ppbv	99
62) Isopropylbenzene	14.86	105	551614	1.048	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.87	83	351260	1.050	ppbv	99
64) n-propylbenzene	15.75	120	140789	1.023	ppbv	83
65) tert-Butylbenzene	16.94	119	487186	1.074	ppbv	96
66) Benzyl Chloride	17.19	91	250514	0.992	ppbv	100
67) sec-Butylbenzene	17.49	105	737691	1.082	ppbv	97
69) p-Isopropyltoluene	17.85	119	543904	1.029	ppbv	97
70) n-Butylbenzene	18.74	91	596076	0.995	ppbv	97
71) 2-Chlorotoluene	15.65	91	413665	1.029	ppbv	98
72) 4-Ethyltoluene	16.03	105	404308	0.989	ppbv	97
73) 1,3,5-Trimethylbenzene	16.19	105	404981	0.989	ppbv	92
74) 1,2,4-Trimethylbenzene	16.96	105	449862	1.005	ppbv #	91
75) 1,3-Dichlorobenzene	17.19	146	287263	1.082	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	249140	1.011	ppbv	96
77) 1,2-Dichlorobenzene	18.02	146	266049	1.038	ppbv	100
78) Hexachloro-1,3-Butadiene	23.57	225	56182	0.587	ppbv #	24
79) Naphthalene	22.45	128	137834	0.379	ppbv	98
80) Naphthalene,2-methyl-	25.14	142	17631	0.182	ppbv	90
81) 1,2,4-Trichlorobenzene	22.17	180	59980	0.327	ppbv #	12

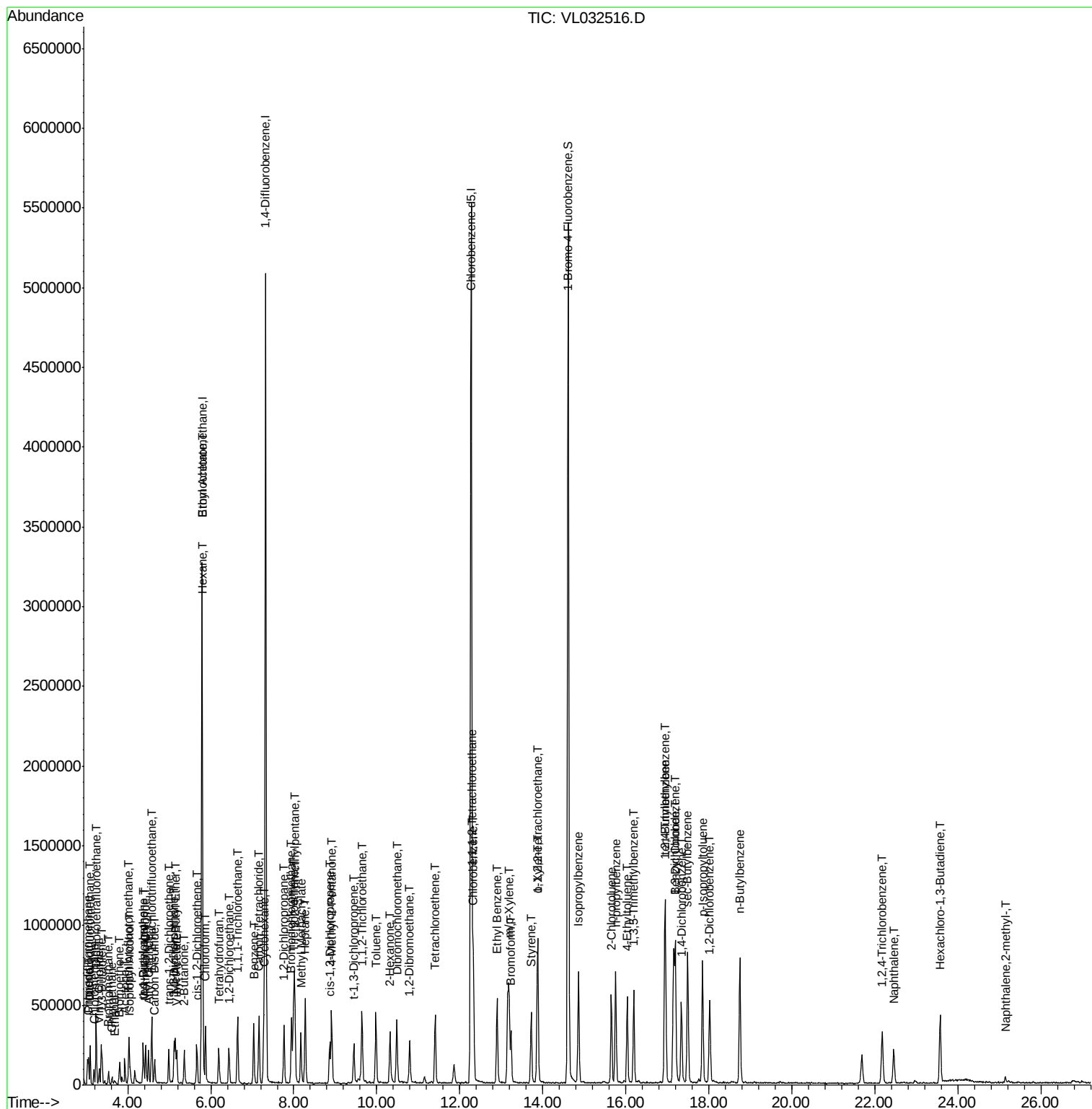
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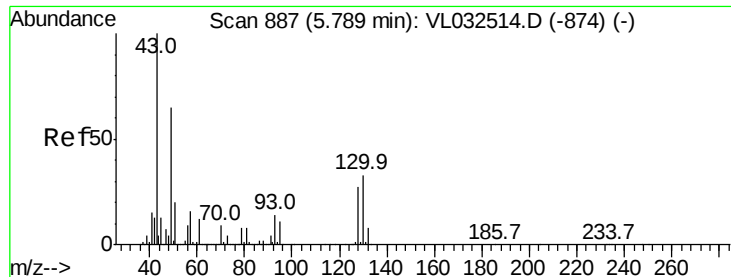
Data File : VL032516.D

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Acq On       : 24 Sep 2018  17:45
Operator     : SY/AP
Sample       : VSTDICC001
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ALS Vial     : 1      Sample Multipl
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ClientSampleId :
VSTDICC001

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

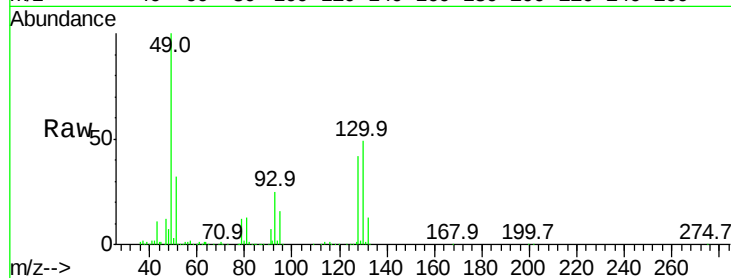
Tgt Ion: 49 Resp: 1557002

Ion Ratio Lower Upper

49 100

128 41.9 20.7 62.1

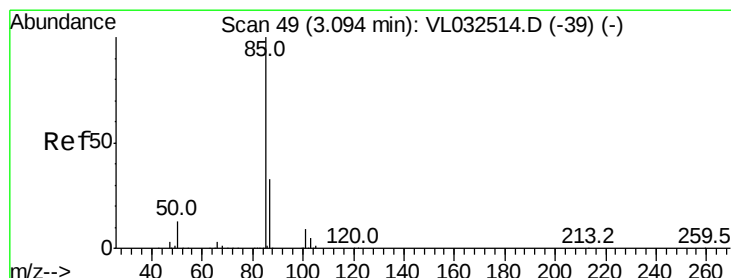
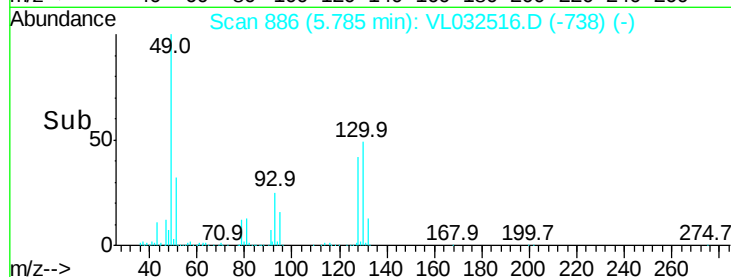
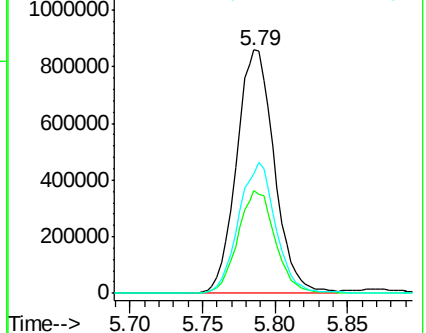
130 53.3 26.6 79.7



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: 0.822 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032516.D

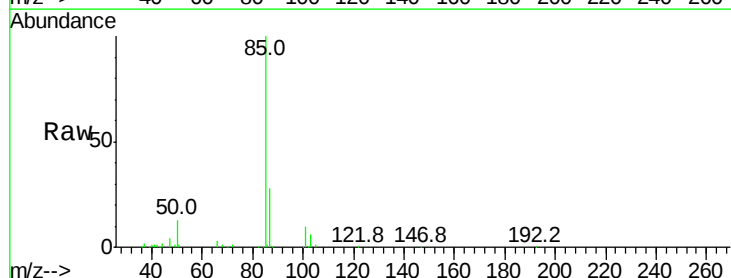
Acq: 24 Sep 2018 17:45

Tgt Ion: 85 Resp: 163736

Ion Ratio Lower Upper

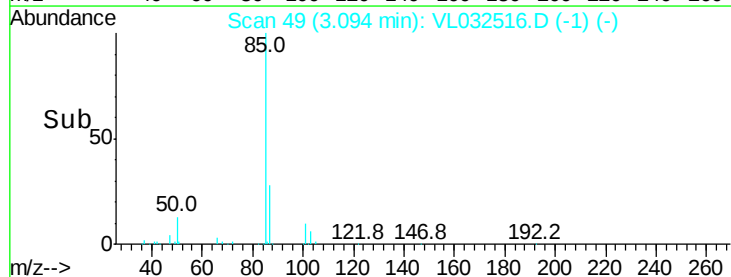
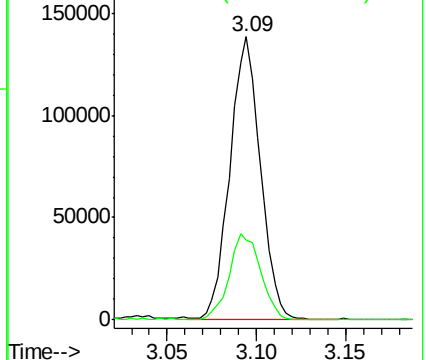
85 100

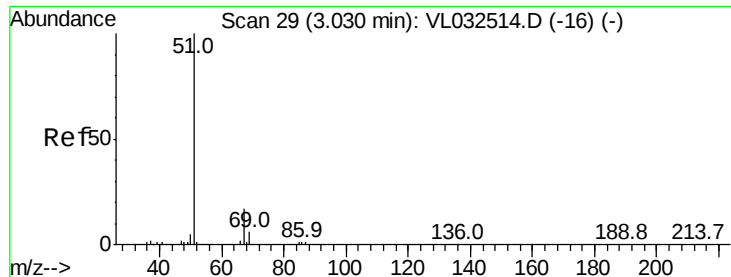
87 28.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.998 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

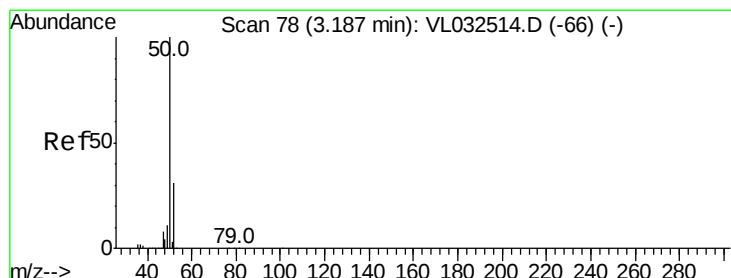
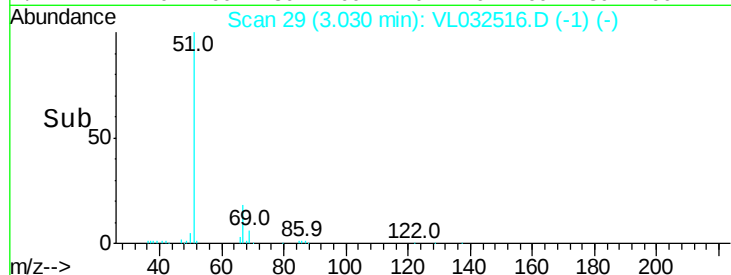
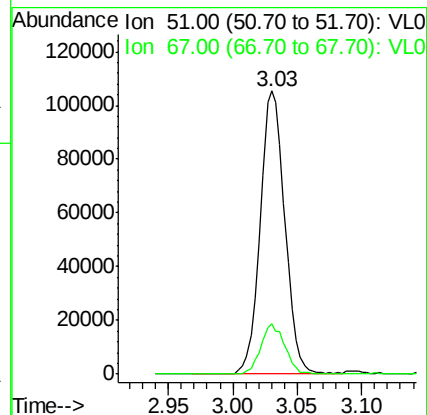
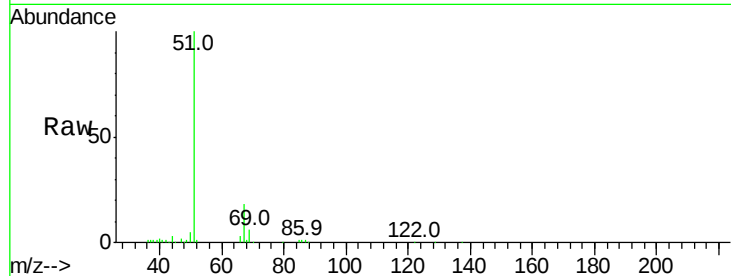
VSTDIC001

Tgt Ion: 51 Resp: 140626

Ion Ratio Lower Upper

51 100

67 17.3 13.8 20.8



#4

Chloromethane

Concen: 0.970 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032516.D

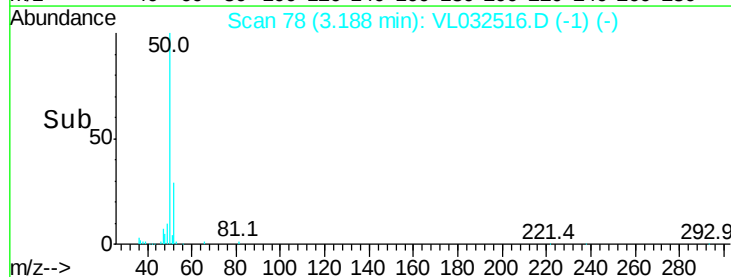
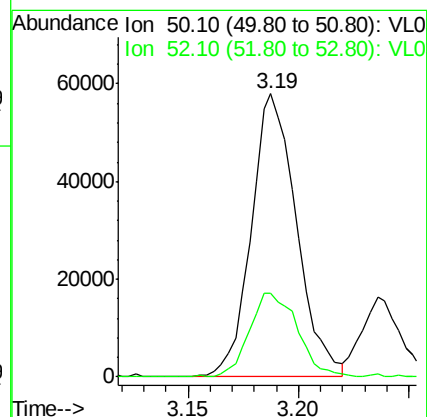
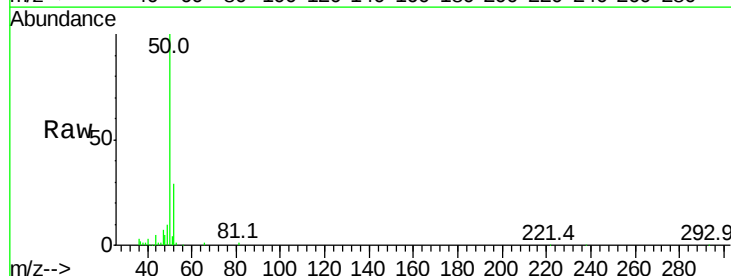
Acq: 24 Sep 2018 17:45

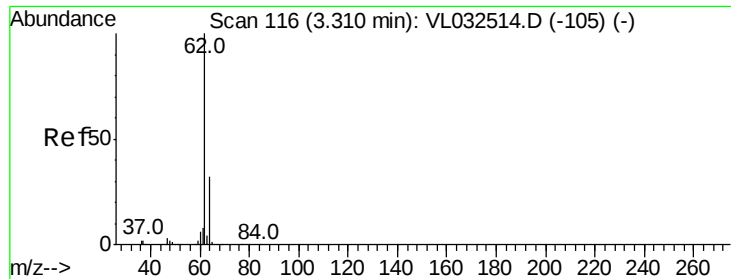
Tgt Ion: 50 Resp: 82798

Ion Ratio Lower Upper

50 100

52 30.2 25.6 38.4





#5

Vinyl Chloride

Concen: 0.925 ppbv

RT: 3.31 min Scan# 116

Delta R.T. -0.01 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

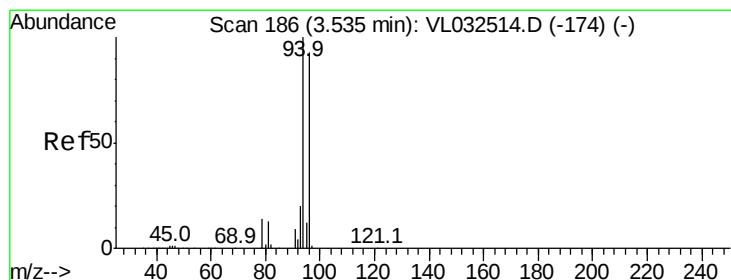
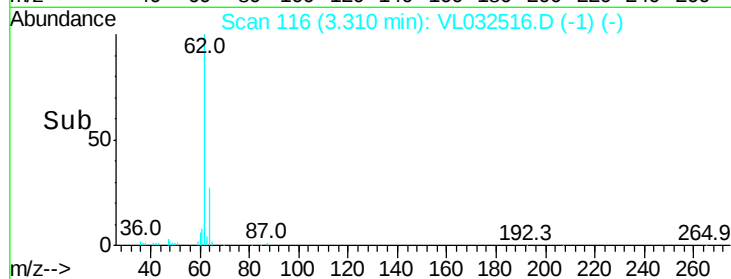
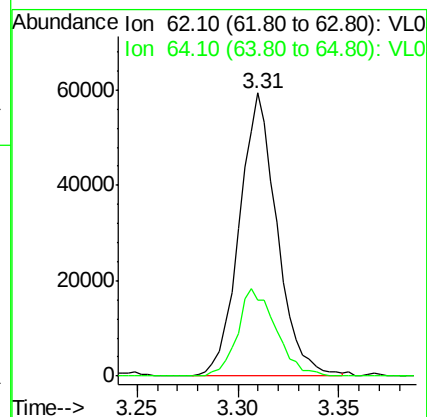
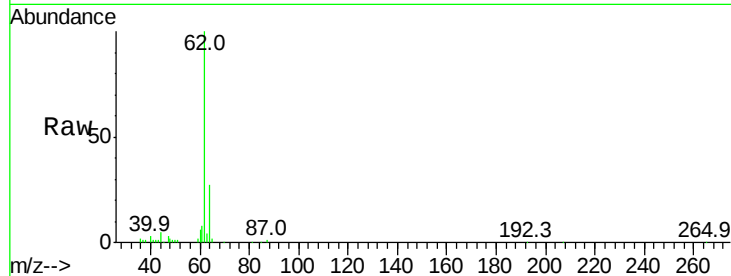
VSTDIC001

Tgt Ion: 62 Resp: 77877

Ion Ratio Lower Upper

62 100

64 26.8 25.0 37.6



#6

Bromomethane

Concen: 0.989 ppbv

RT: 3.53 min Scan# 185

Delta R.T. -0.02 min

Lab File: VL032516.D

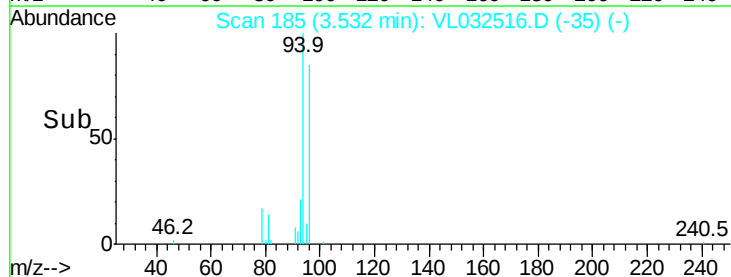
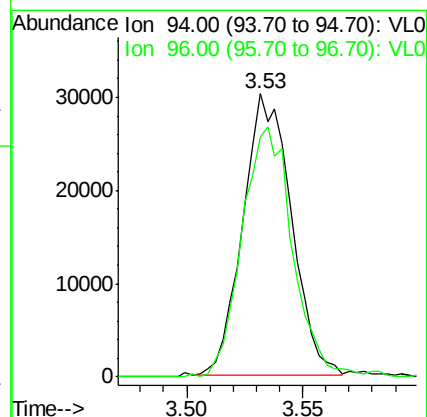
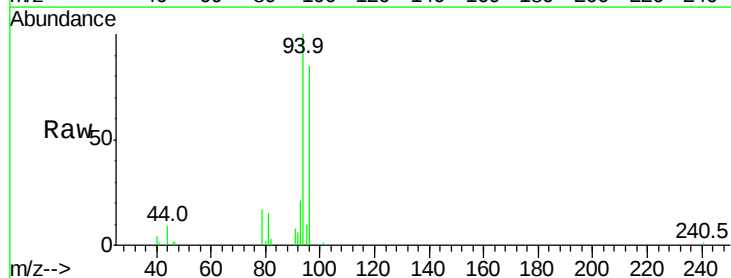
Acq: 24 Sep 2018 17:45

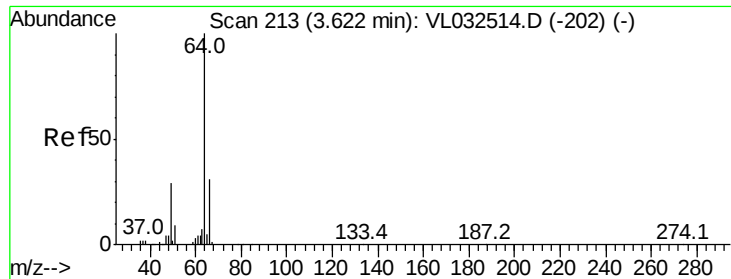
Tgt Ion: 94 Resp: 43749

Ion Ratio Lower Upper

94 100

96 84.4 72.8 109.2





#7

Chloroethane

Concen: 0.953 ppbv

RT: 3.62 min Scan# 213

Delta R.T. -0.01 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

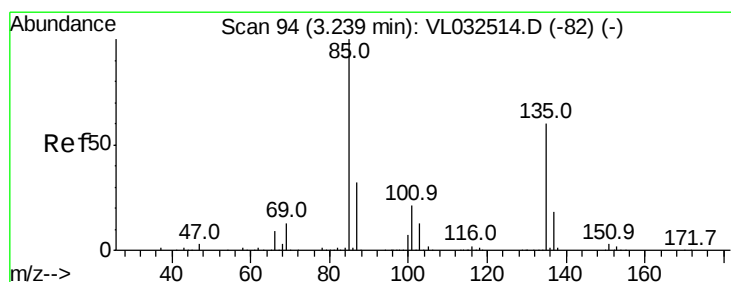
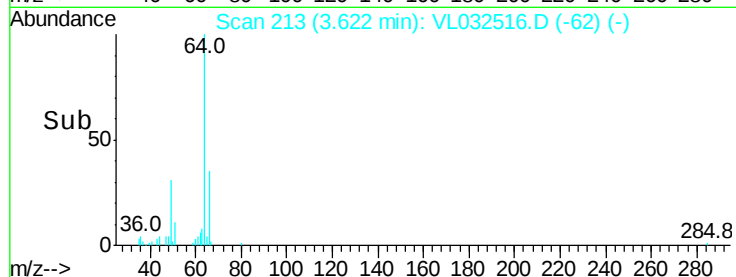
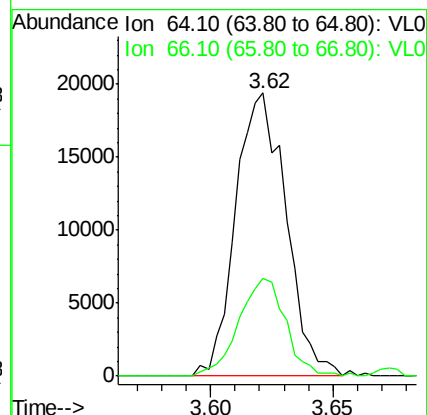
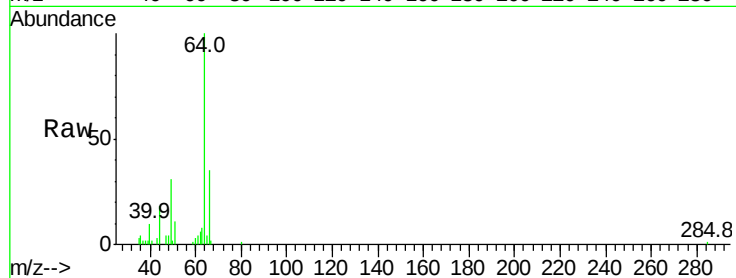
VSTDIC001

Tgt Ion: 64 Resp: 27774

Ion Ratio Lower Upper

64 100

66 34.5 25.8 38.6



#8

Dichlorotetrafluoroethane

Concen: 0.990 ppbv

RT: 3.24 min Scan# 94

Delta R.T. -0.01 min

Lab File: VL032516.D

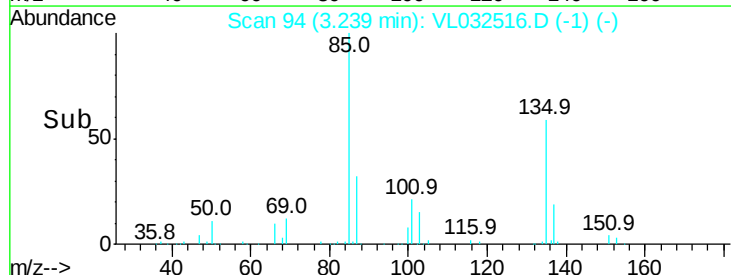
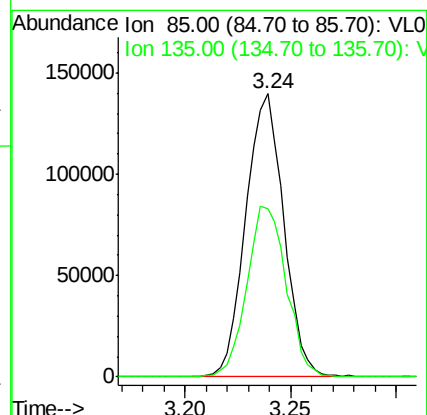
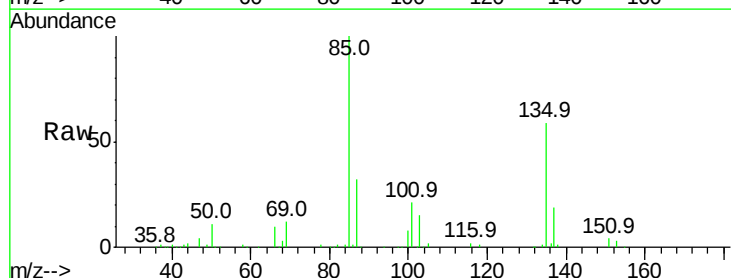
Acq: 24 Sep 2018 17:45

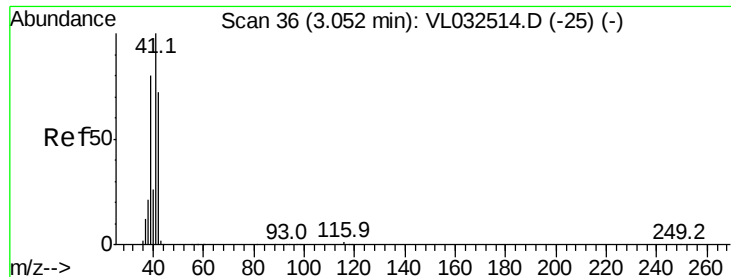
Tgt Ion: 85 Resp: 175054

Ion Ratio Lower Upper

85 100

135 62.5 48.6 72.8





#9

Propene

Concen: 1.031 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

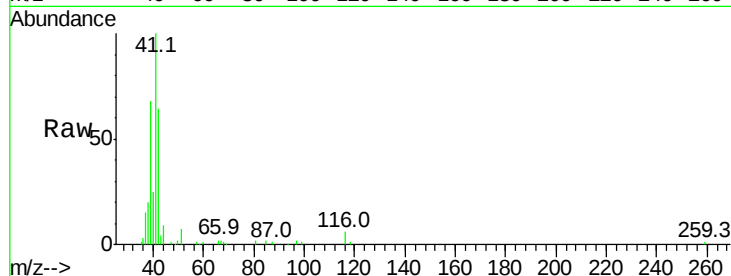
VSTDIC001

Tgt Ion: 41 Resp: 58625

Ion Ratio Lower Upper

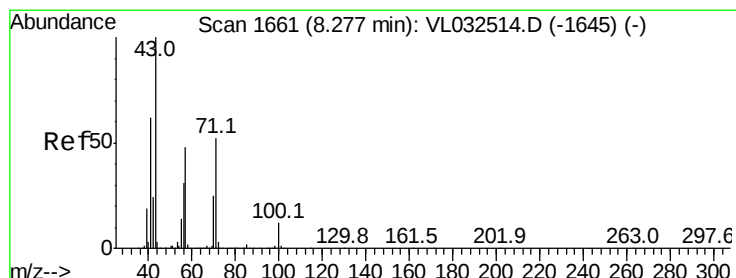
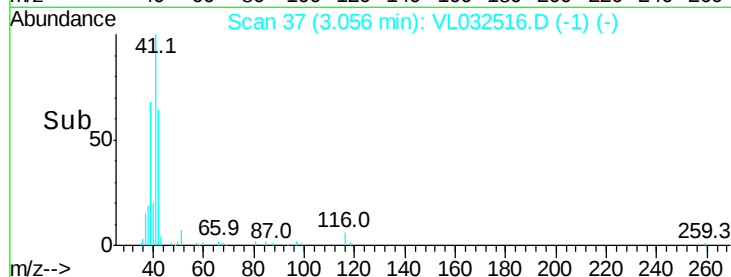
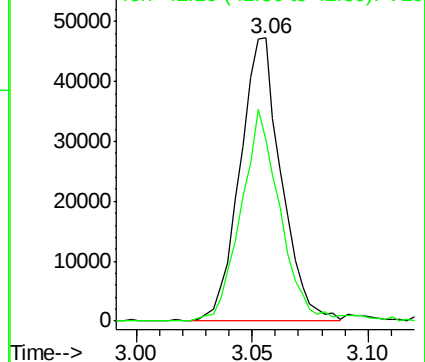
41 100

42 72.2 56.6 84.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 1.028 ppbv

RT: 8.28 min Scan# 1661

Delta R.T. -0.02 min

Lab File: VL032516.D

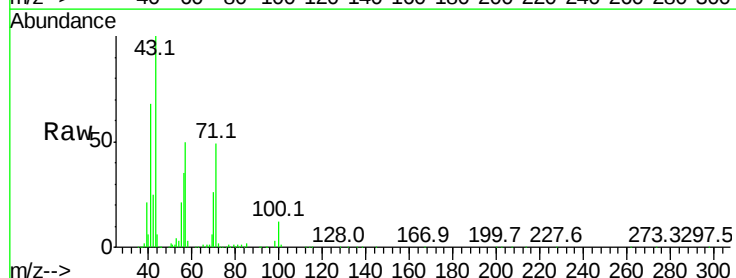
Acq: 24 Sep 2018 17:45

Tgt Ion: 43 Resp: 209593

Ion Ratio Lower Upper

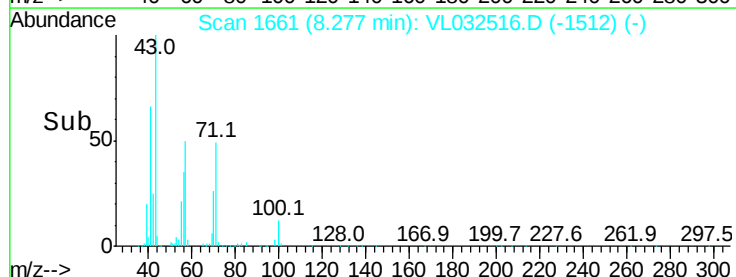
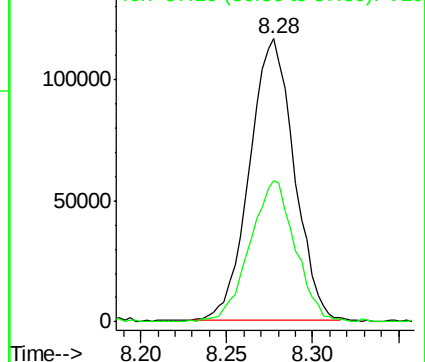
43 100

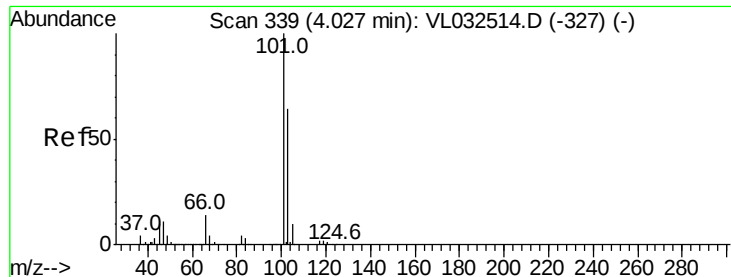
57 51.4 39.6 59.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 1.033 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

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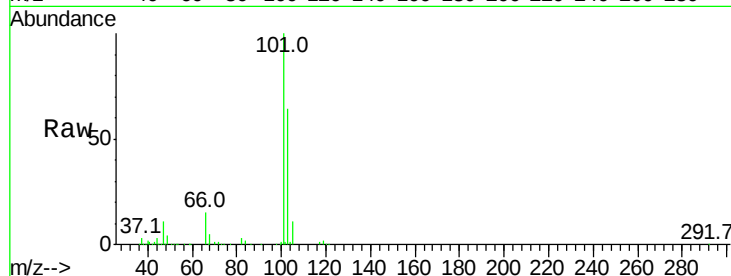
VSTDIC001

Tgt Ion:101 Resp: 185462

Ion Ratio Lower Upper

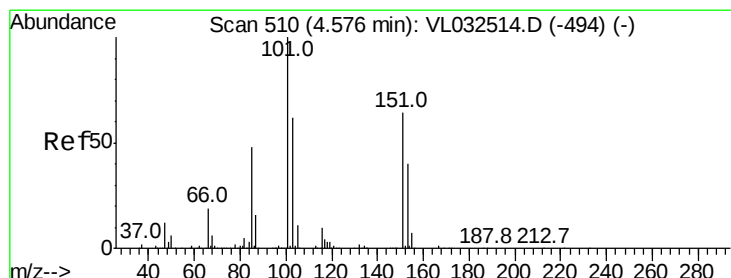
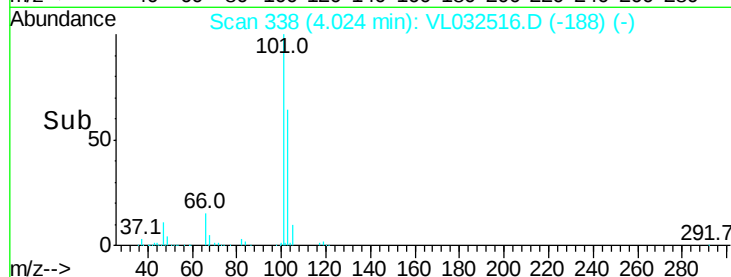
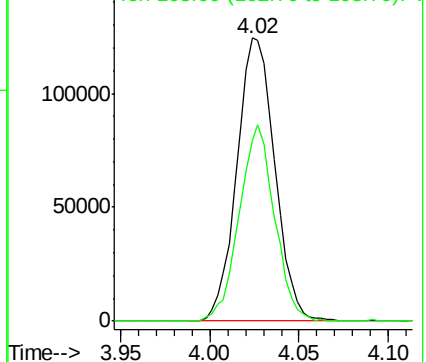
101 100

103 64.0 52.8 79.2



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: 1.256 ppbv

RT: 4.57 min Scan# 509

Delta R.T. -0.02 min

Lab File: VL032516.D

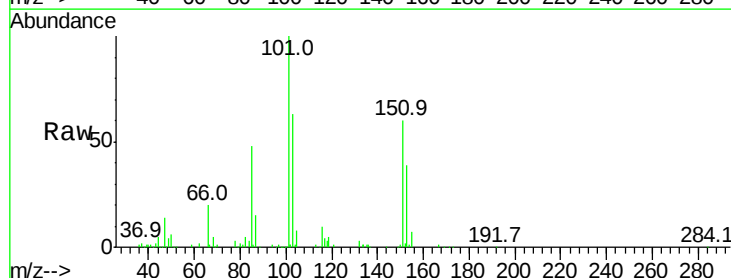
Acq: 24 Sep 2018 17:45

Tgt Ion:101 Resp: 152872

Ion Ratio Lower Upper

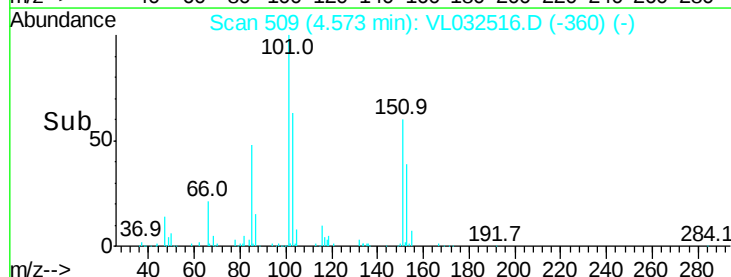
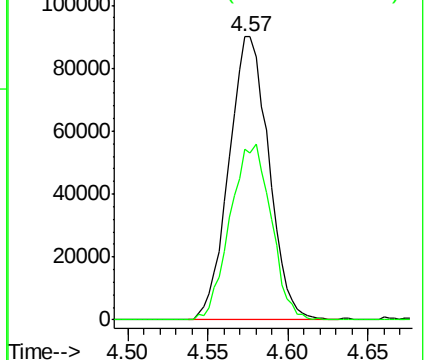
101 100

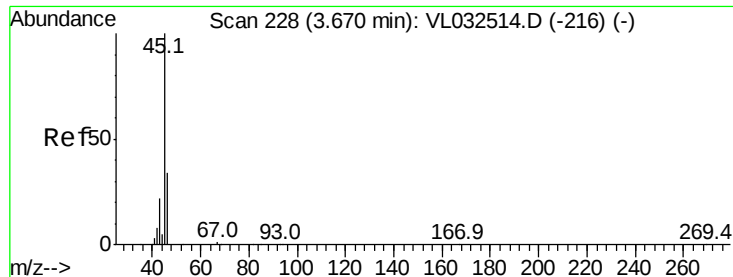
151 63.8 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1.030 ppbv

RT: 3.68 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

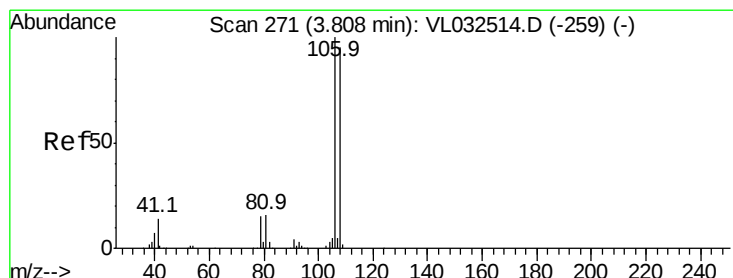
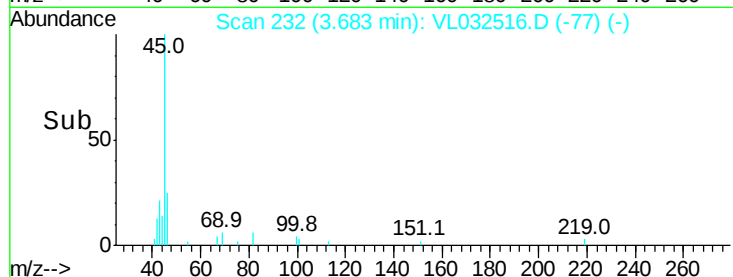
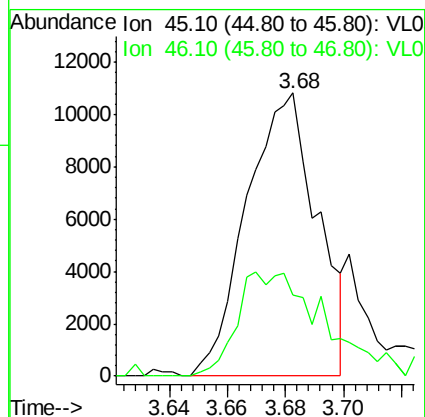
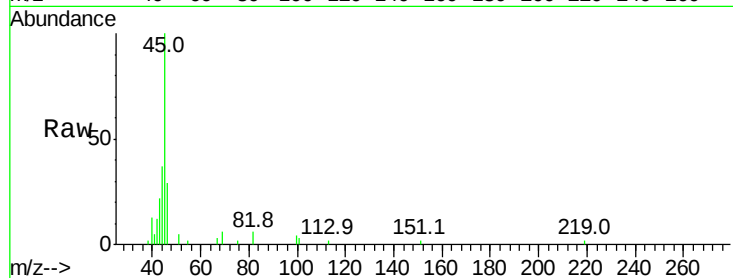
VSTDIC001

Tgt Ion: 45 Resp: 18246

Ion Ratio Lower Upper

45 100

46 47.1 14.2 56.8



#14

Bromoethene

Concen: 1.001 ppbv

RT: 3.81 min Scan# 271

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

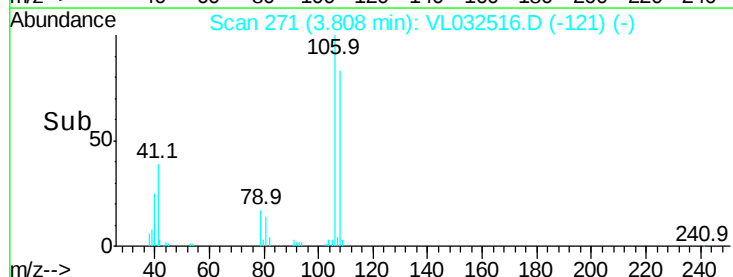
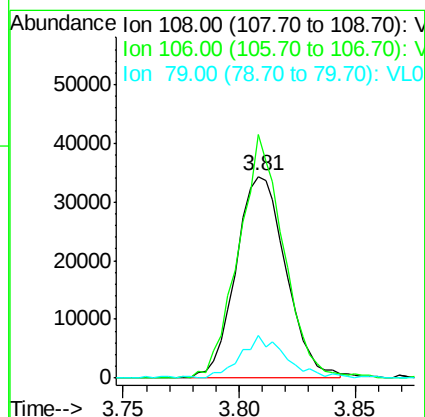
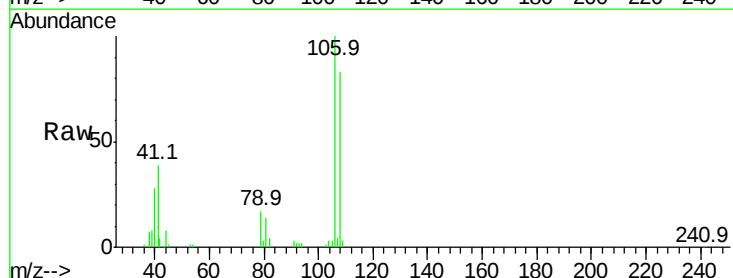
Tgt Ion: 108 Resp: 51600

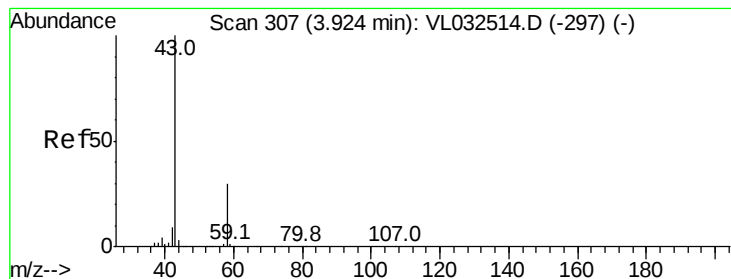
Ion Ratio Lower Upper

108 100

106 109.0 85.5 128.3

79 19.8 13.0 19.6#





#15

Acetone

Concen: 1.073 ppbv

RT: 3.93 min Scan# 309

Delta R.T. -0.01 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

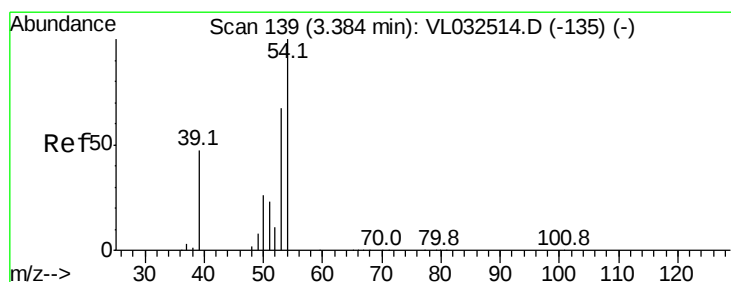
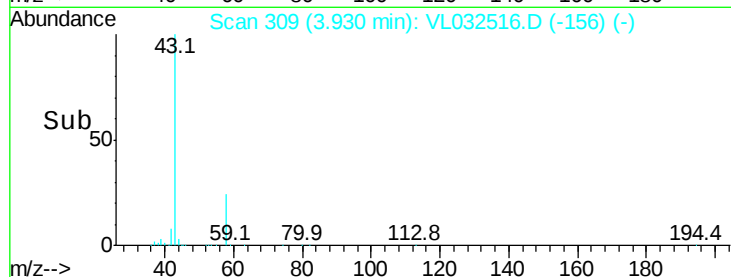
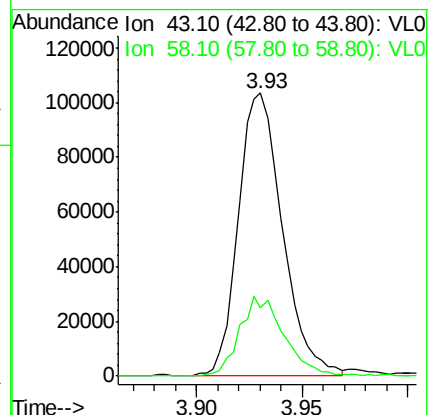
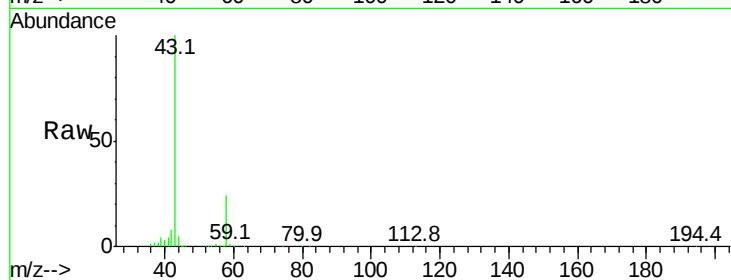
VSTDIC001

Tgt Ion: 43 Resp: 150504

Ion Ratio Lower Upper

43 100

58 28.8 22.6 33.8



#16

1,3-Butadiene

Concen: 0.977 ppbv

RT: 3.38 min Scan# 139

Delta R.T. -0.01 min

Lab File: VL032516.D

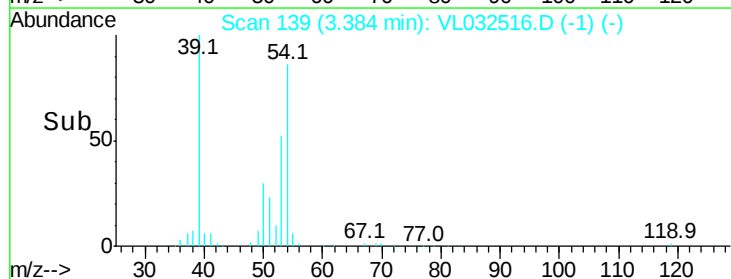
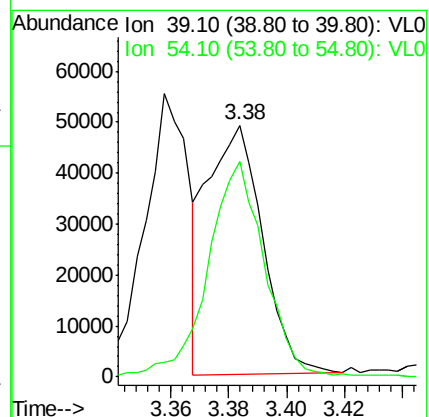
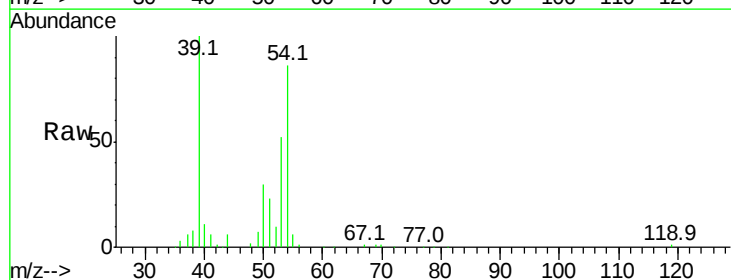
Acq: 24 Sep 2018 17:45

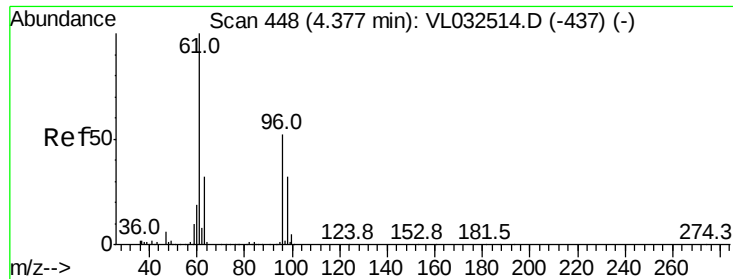
Tgt Ion: 39 Resp: 64488

Ion Ratio Lower Upper

39 100

54 89.5 80.8 121.2





#17

tert-Butyl alcohol

Concen: 0.145 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

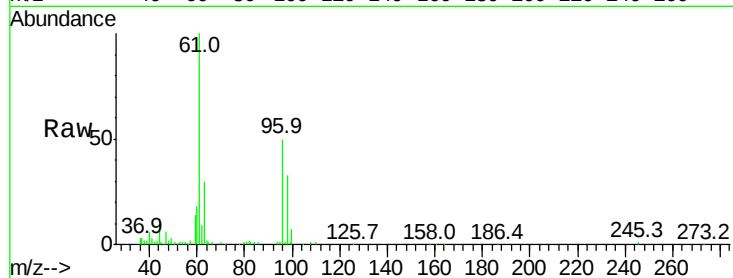
VSTDIC001

Tgt Ion: 59 Resp: 3127

Ion Ratio Lower Upper

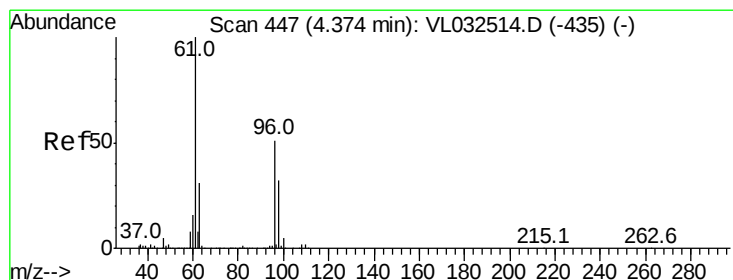
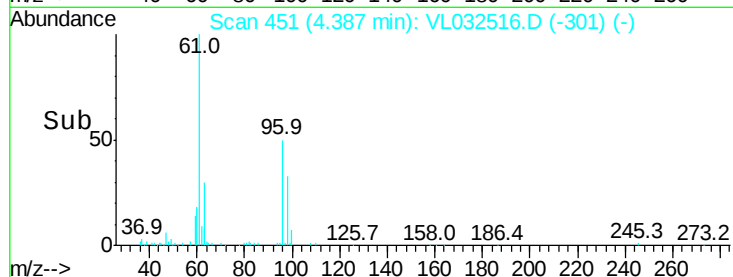
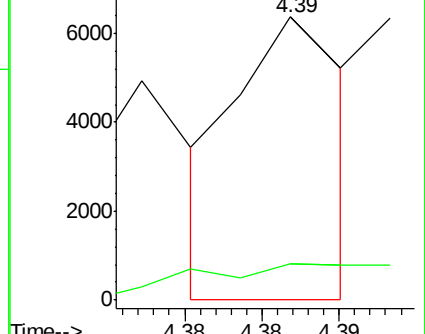
59 100

57 0.0 0.0 0.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 1.248 ppbv

RT: 4.38 min Scan# 448

Delta R.T. -0.01 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

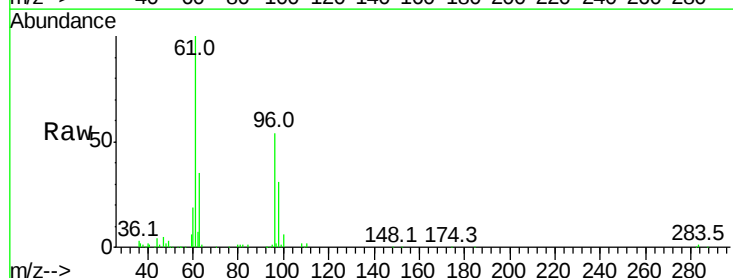
Tgt Ion: 96 Resp: 69396

Ion Ratio Lower Upper

96 100

61 184.7 159.2 238.8

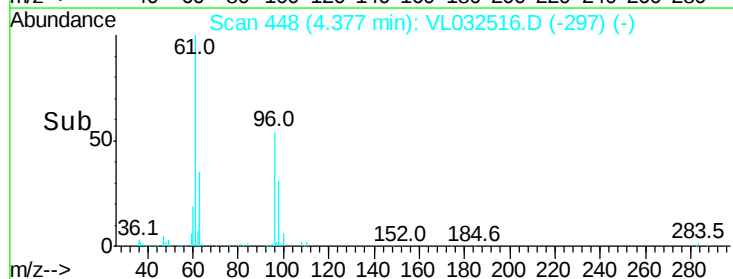
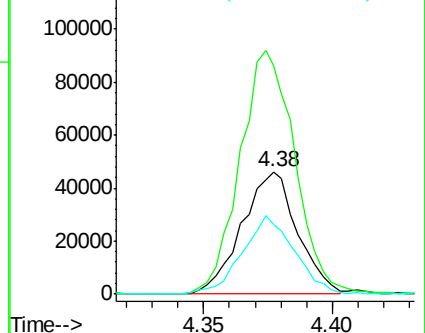
98 55.6 51.0 76.4

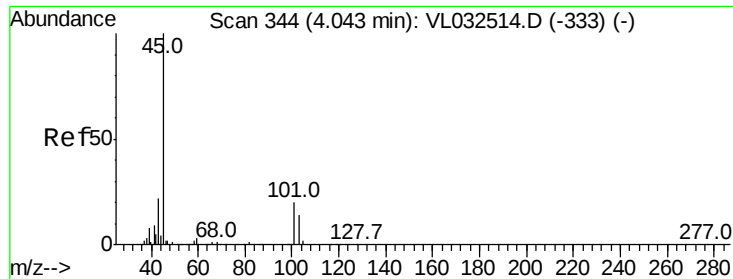


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 1.155 ppbv

RT: 4.05 min Scan# 346

Delta R.T. -0.01 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

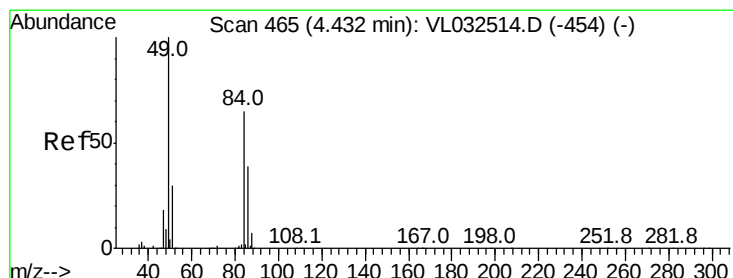
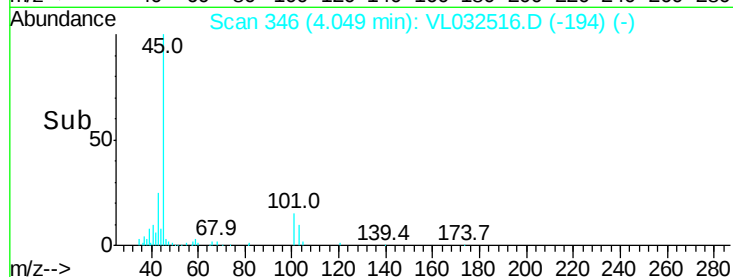
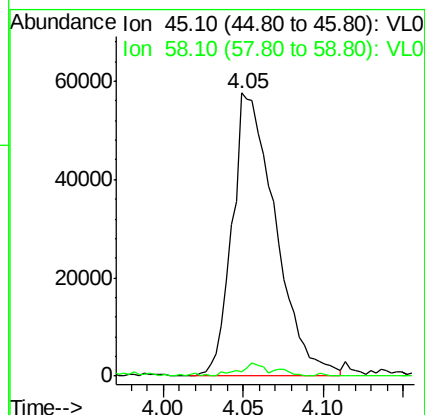
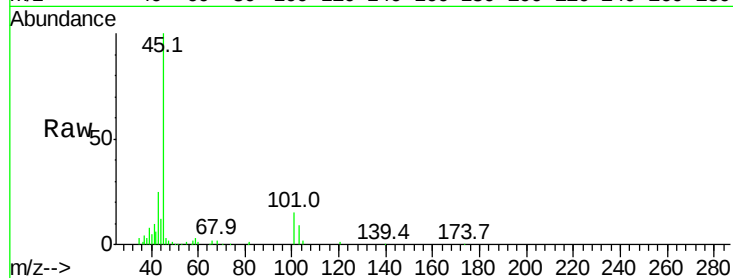
VSTDIC001

Tgt Ion: 45 Resp: 106208

Ion Ratio Lower Upper

45 100

58 4.3 2.0 3.0#



#20

Methylene Chloride

Concen: 1.412 ppbv

RT: 4.43 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Tgt Ion: 84 Resp: 75491

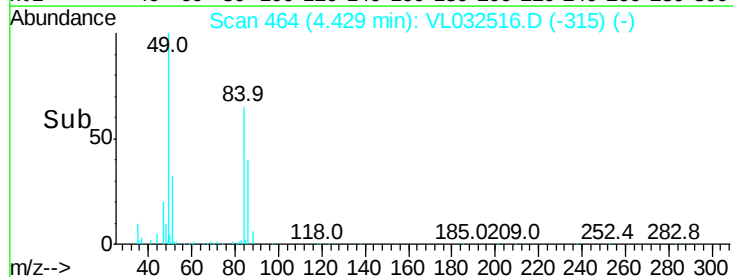
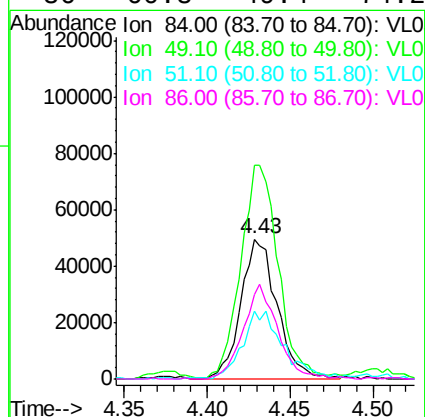
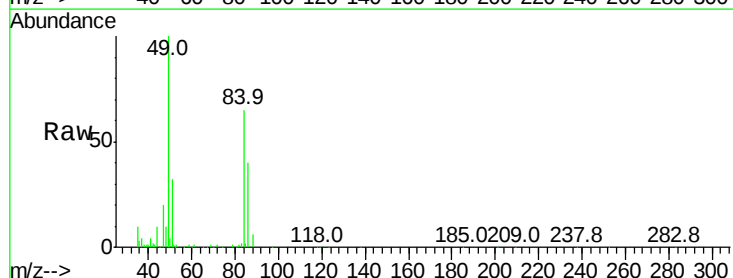
Ion Ratio Lower Upper

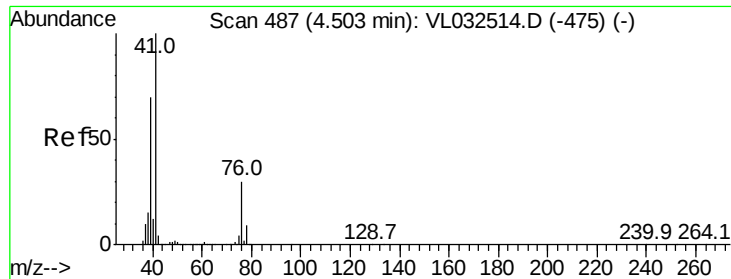
84 100

49 151.3 119.1 178.7

51 49.4 35.2 52.8

86 60.8 49.4 74.2

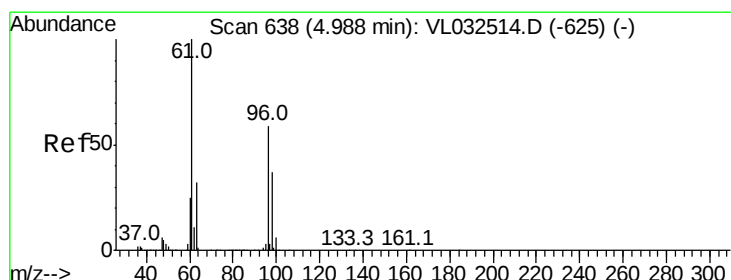
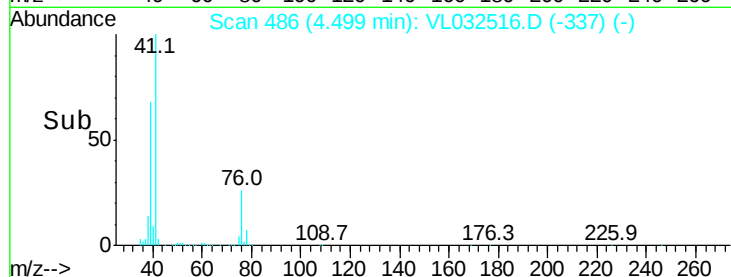
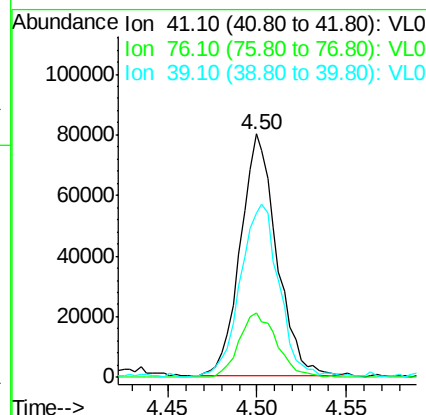
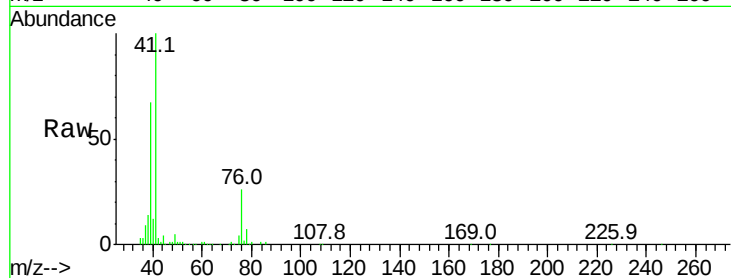




#21
 Allyl Chloride
 Concen: 1.222 ppbv
 RT: 4.50 min Scan# 486
 Delta R.T. -0.02 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

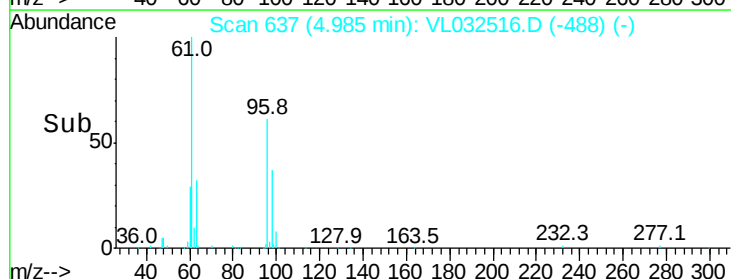
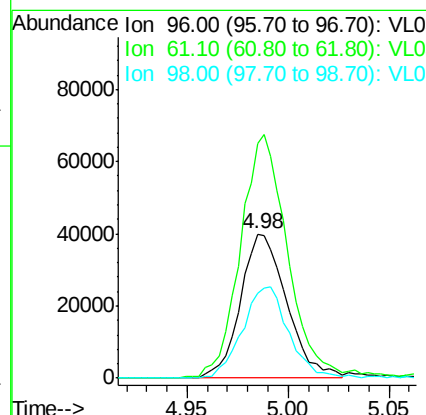
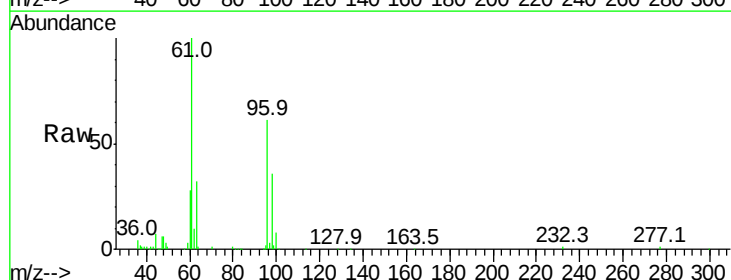
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

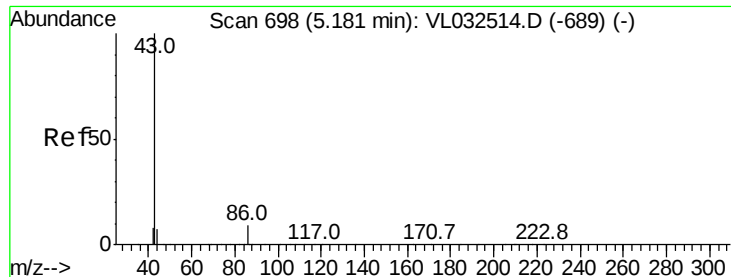
Tgt Ion: 41 Resp: 113767
 Ion Ratio Lower Upper
 41 100
 76 27.8 23.6 35.4
 39 75.9 57.7 86.5



#22
 trans-1,2-Dichloroethene
 Concen: 1.066 ppbv
 RT: 4.98 min Scan# 637
 Delta R.T. -0.02 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

Tgt Ion: 96 Resp: 64302
 Ion Ratio Lower Upper
 96 100
 61 161.6 136.2 204.4
 98 59.2 50.4 75.6





#23

Vinyl Acetate

Concen: 1.081 ppbv

RT: 5.18 min Scan# 698

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 251301

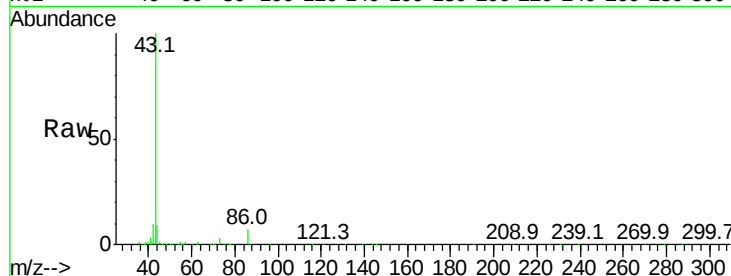
Ion Ratio Lower Upper

43 100

86 7.1 5.9 8.9

42 9.5 6.9 10.3

44 7.7 4.6 7.0#

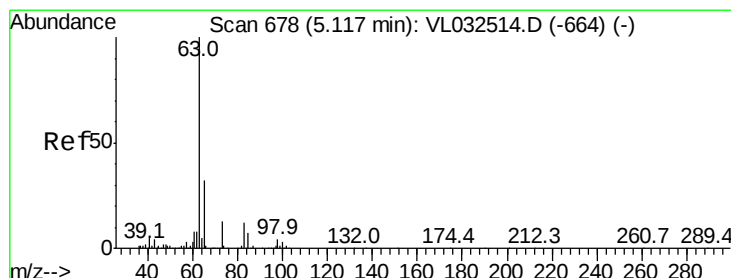
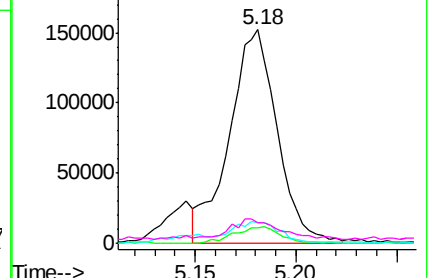
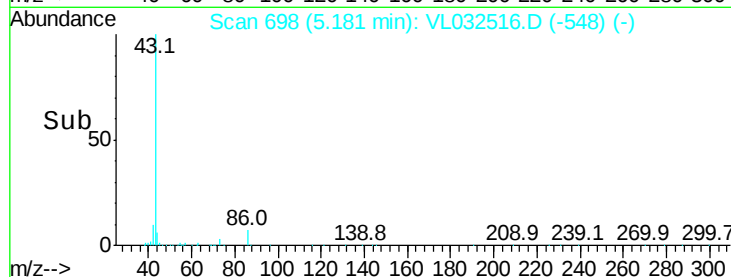


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 1.104 ppbv

RT: 5.12 min Scan# 678

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

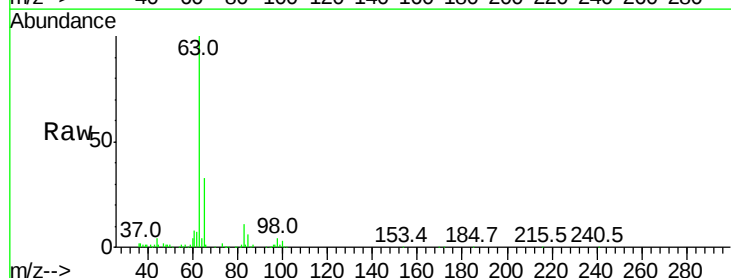
Tgt Ion: 63 Resp: 211353

Ion Ratio Lower Upper

63 100

98 3.5 2.1 6.5

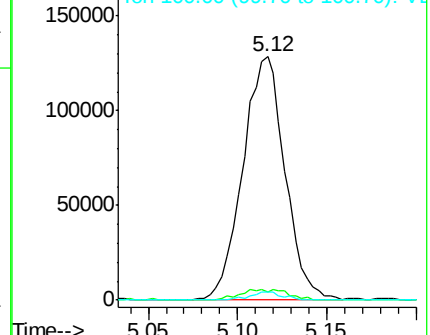
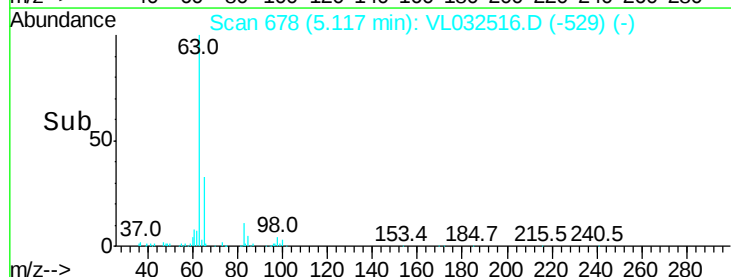
100 3.3 1.5 4.4

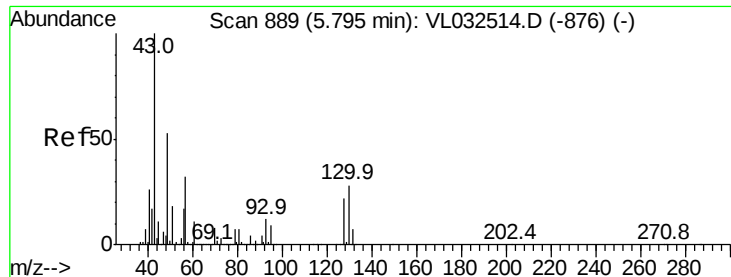


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 1.028 ppbv

RT: 5.80 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 340502

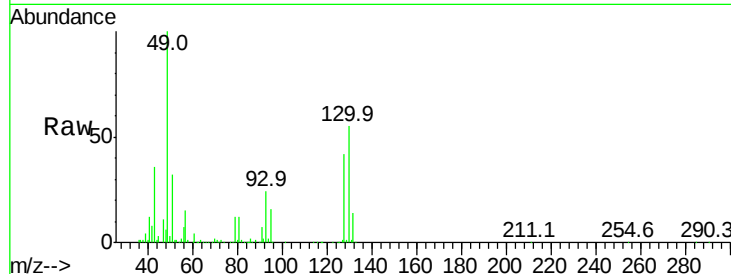
Ion Ratio Lower Upper

43 100

45 9.8 8.0 12.0

61 10.1 7.6 11.4

70 7.2 5.8 8.8

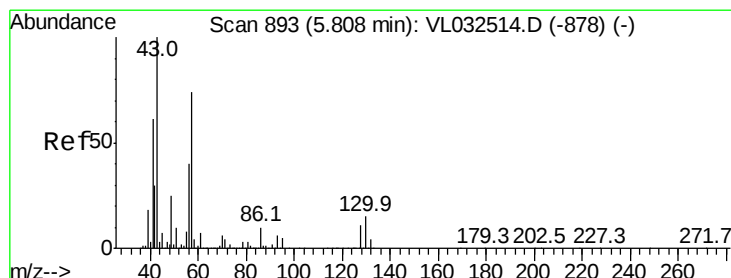
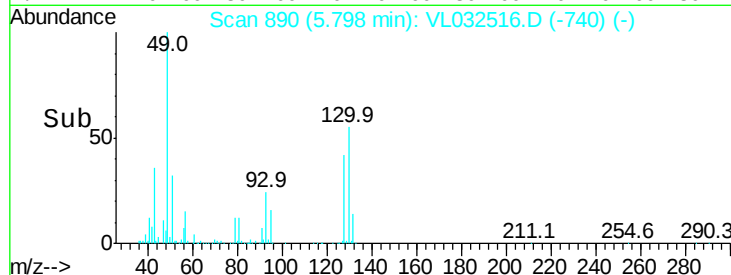
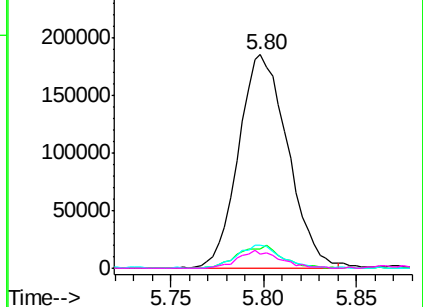


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 1.028 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Tgt Ion: 57 Resp: 152406

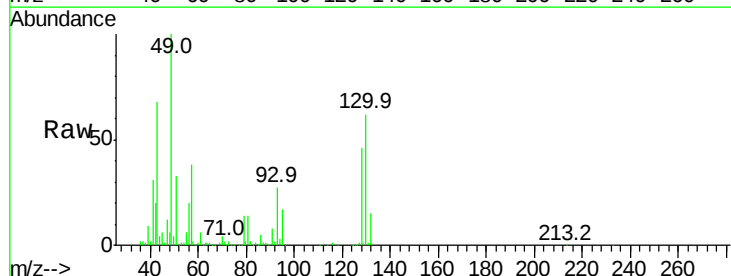
Ion Ratio Lower Upper

57 100

41 91.1 69.0 103.4

43 225.2 172.1 258.1

56 54.9 42.2 63.2

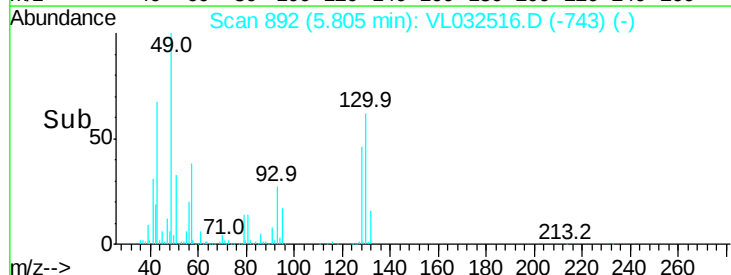
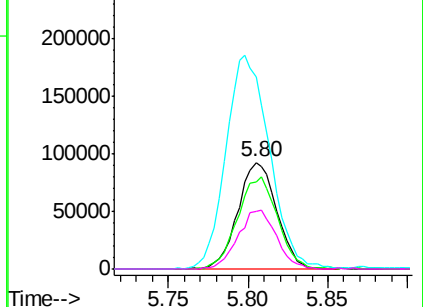


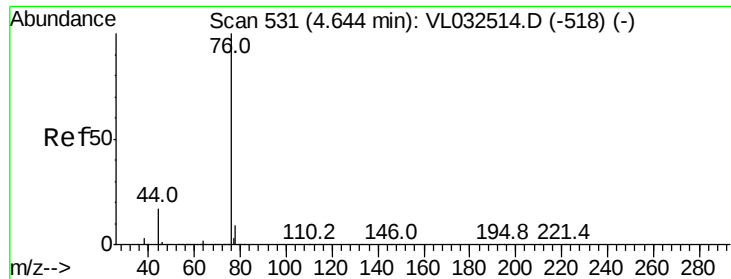
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 1.201 ppbv

RT: 4.64 min Scan# 531

Delta R.T. -0.02 min

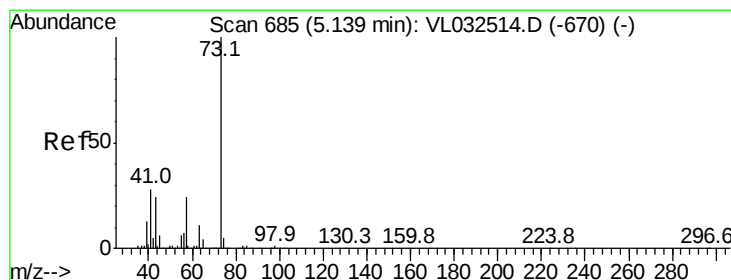
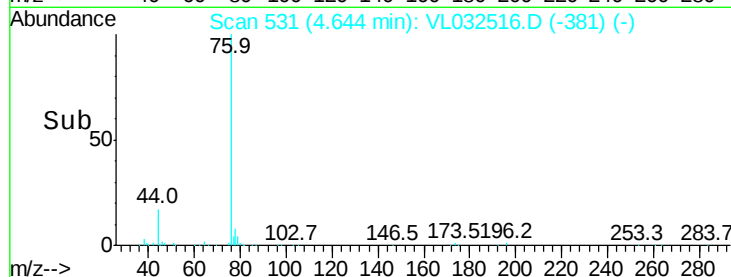
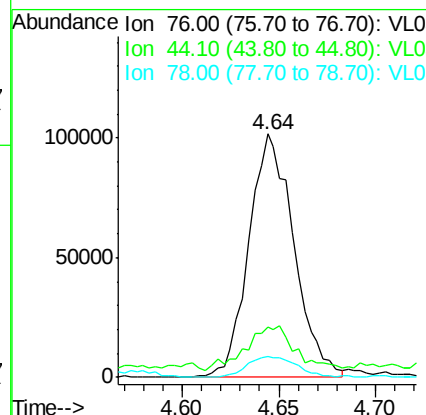
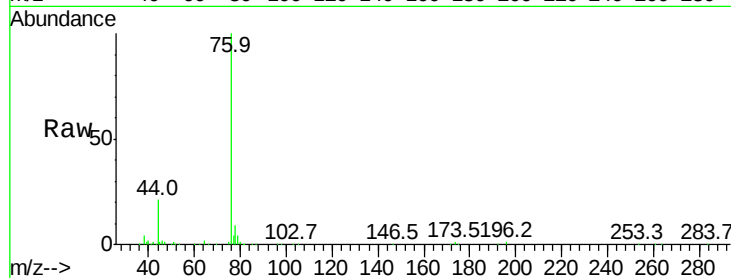
Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 76 Resp: 164426

Ion	Ratio	Lower	Upper
76	100		
44	24.8	14.0	21.0#
78	10.1	7.5	11.3



#28

Methyl tert-Butyl Ether

Concen: 1.063 ppbv

RT: 5.15 min Scan# 687

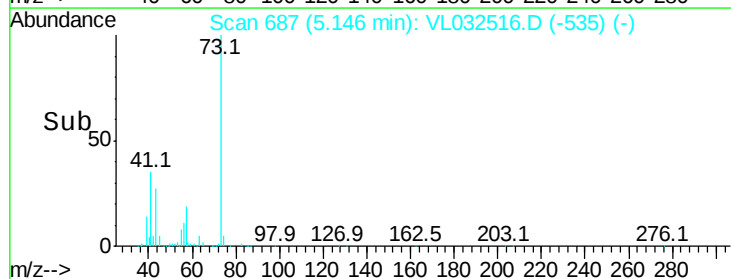
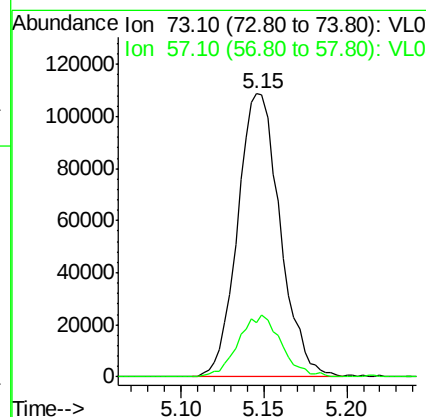
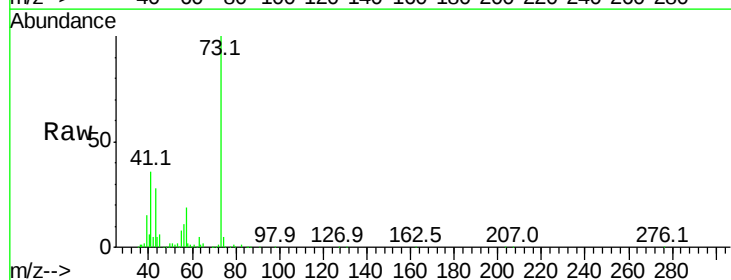
Delta R.T. -0.01 min

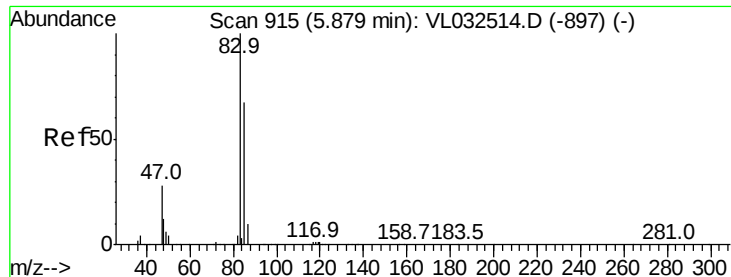
Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Tgt Ion: 73 Resp: 193531

Ion	Ratio	Lower	Upper
73	100		
57	22.2	19.3	28.9





#29

Chloroform

Concen: 1.074 ppbv

RT: 5.87 min Scan# 912

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

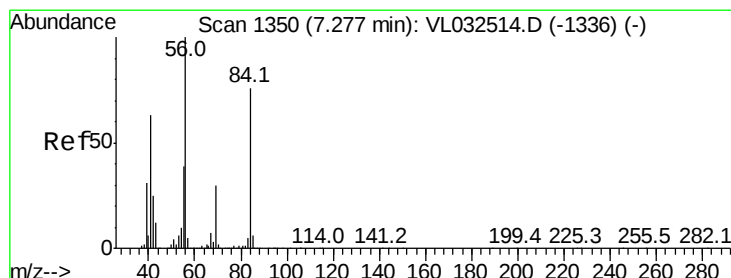
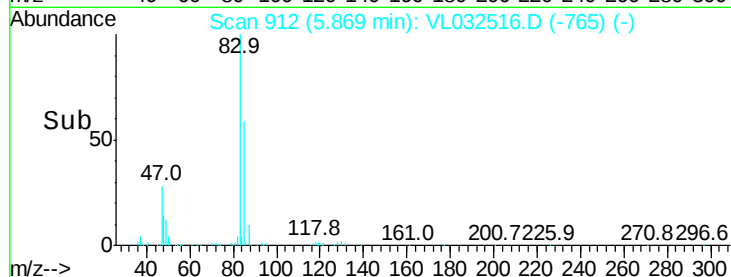
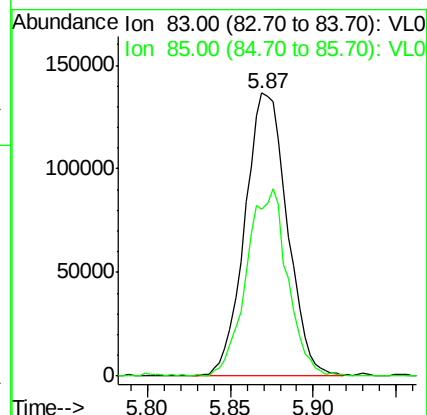
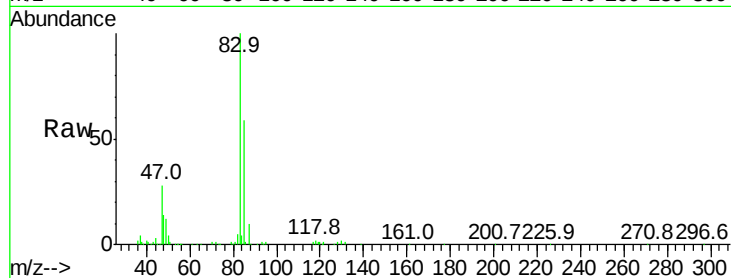
VSTDIC001

Tgt Ion: 83 Resp: 242701

Ion Ratio Lower Upper

83 100

85 58.4 52.5 78.7



#30

Cyclohexane

Concen: 0.661 ppbv

RT: 7.27 min Scan# 1349

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

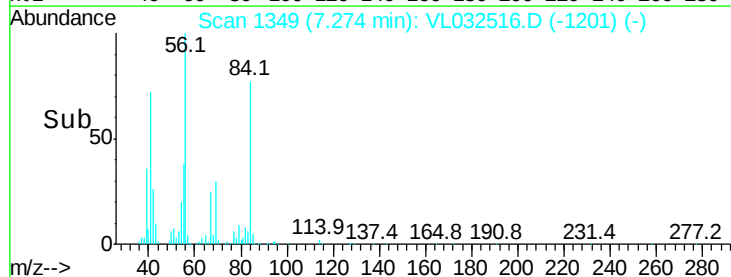
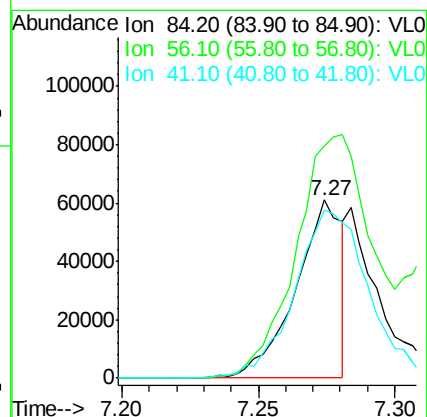
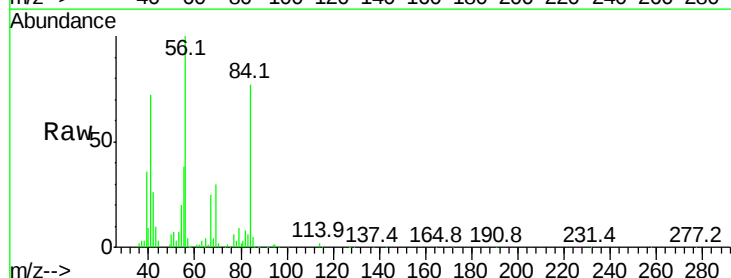
Tgt Ion: 84 Resp: 71718

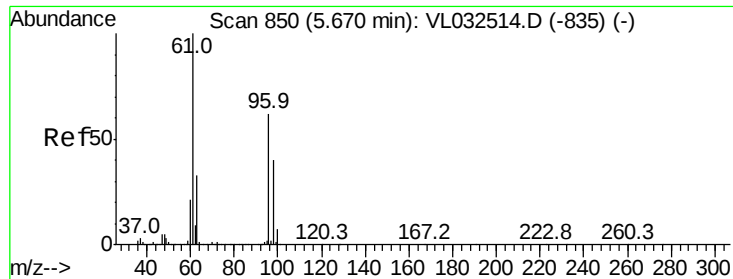
Ion Ratio Lower Upper

84 100

56 0.0 113.5 170.3#

41 152.5 68.1 102.1#





#31

cis-1,2-Dichloroethene

Concen: 0.534 ppbv

RT: 5.67 min Scan# 850

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

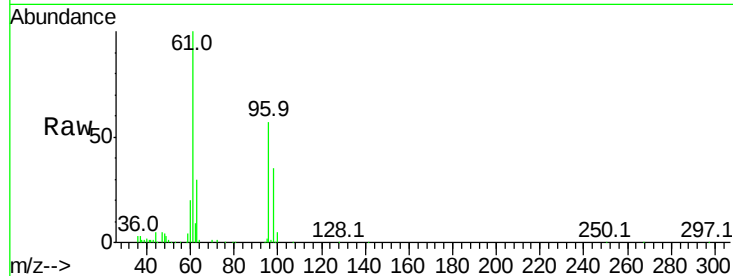
Tgt Ion: 61 Resp: 71689

Ion Ratio Lower Upper

61 100

96 57.9 49.2 73.8

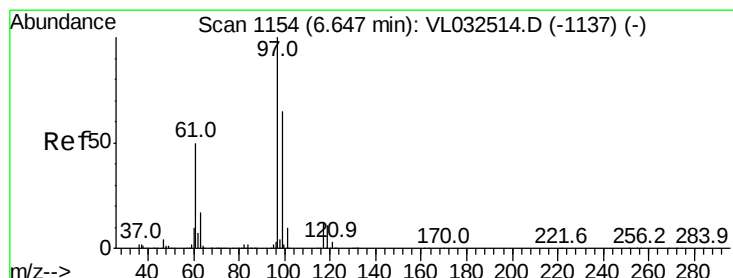
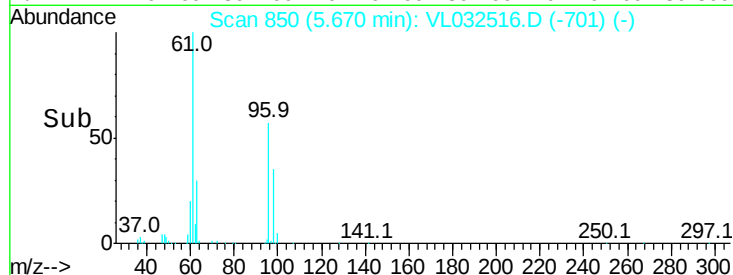
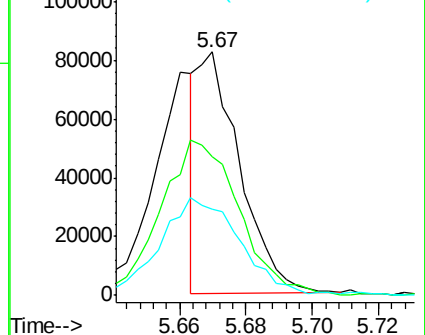
98 35.0 30.7 46.1



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 1.175 ppbv

RT: 6.65 min Scan# 1154

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

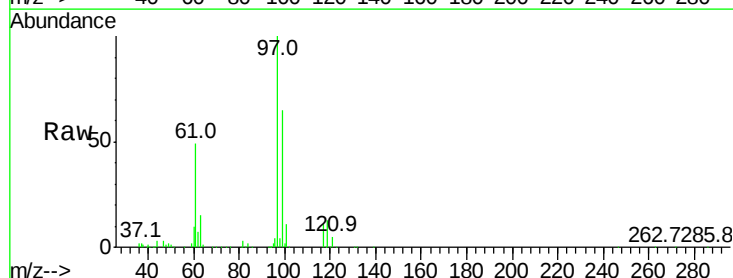
Tgt Ion: 97 Resp: 247554

Ion Ratio Lower Upper

97 100

99 63.5 52.1 78.1

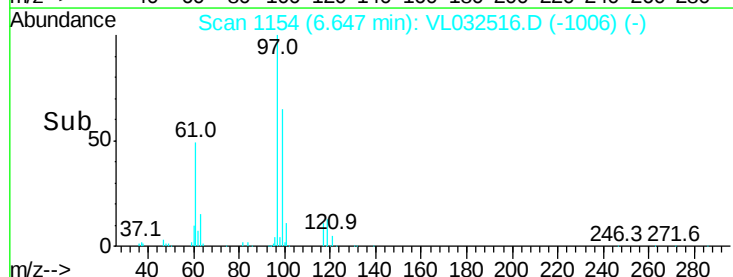
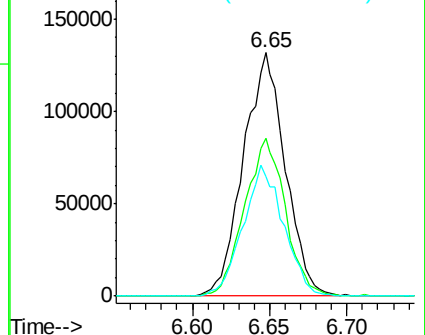
61 52.4 42.5 63.7

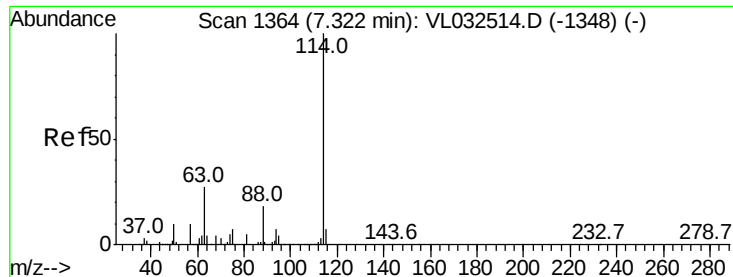


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

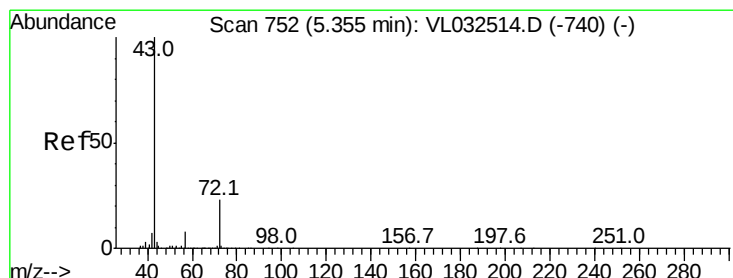
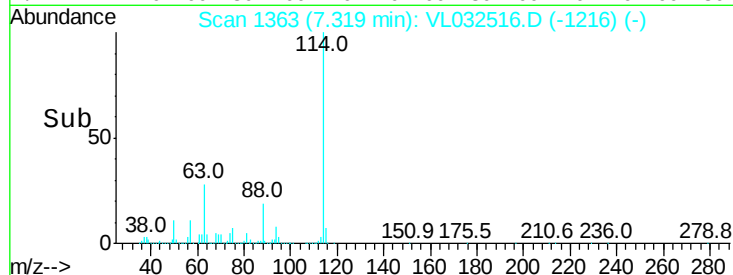
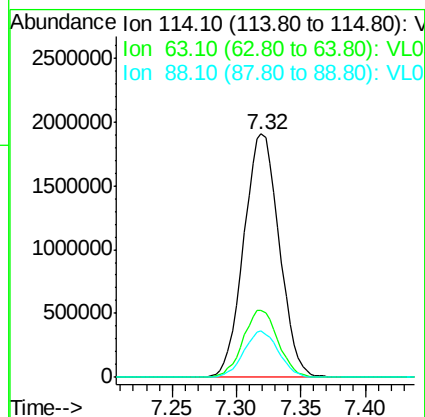
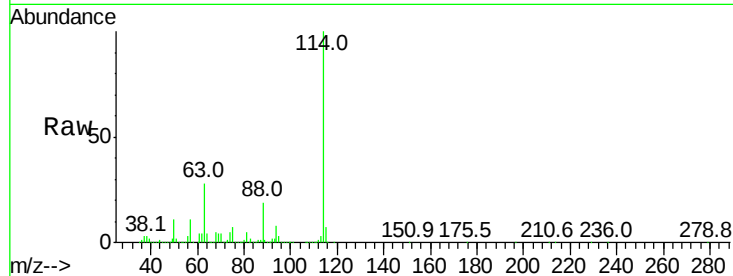




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

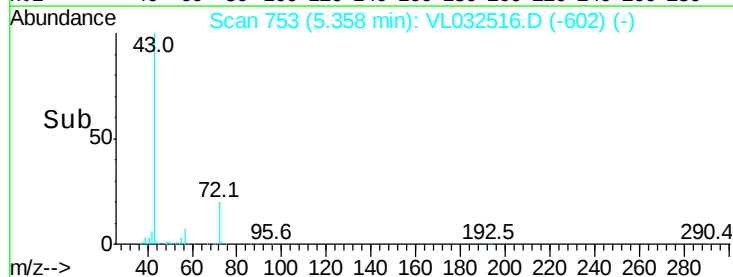
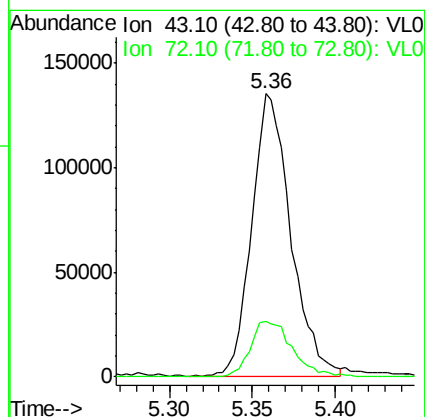
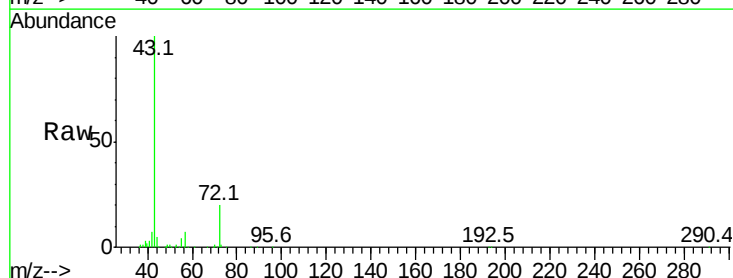
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

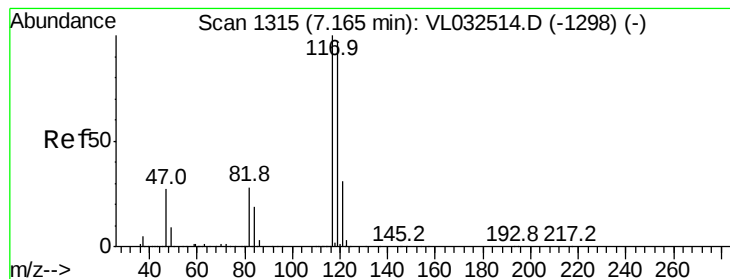
Tgt Ion:114 Resp: 3650412
 Ion Ratio Lower Upper
 114 100
 63 27.4 22.2 33.4
 88 18.7 15.0 22.4



#34
 2-Butanone
 Concen: 0.910 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

Tgt Ion: 43 Resp: 220639
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.8 26.6





#35

Carbon Tetrachloride

Concen: 1.019 ppbv

RT: 7.16 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

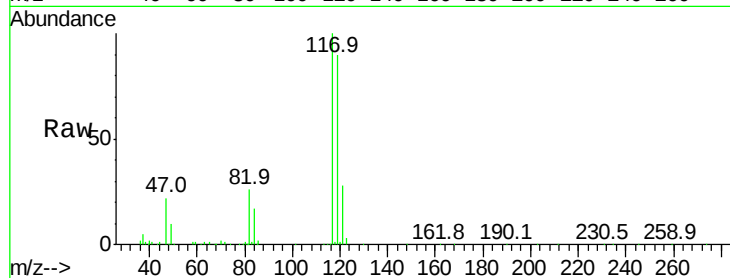
Tgt Ion: 117 Resp: 249918

Ion Ratio Lower Upper

117 100

119 89.7 76.6 115.0

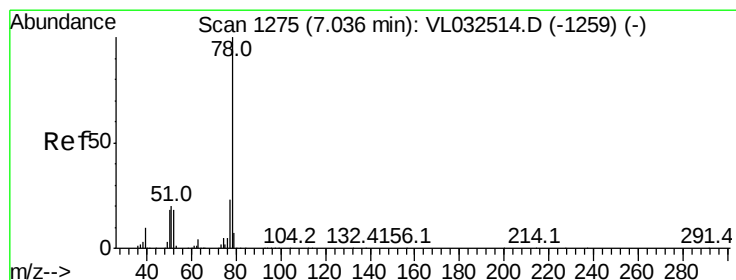
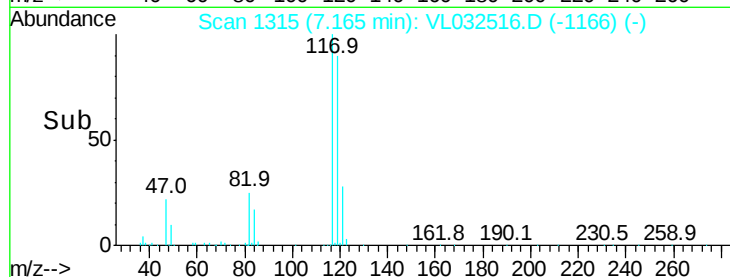
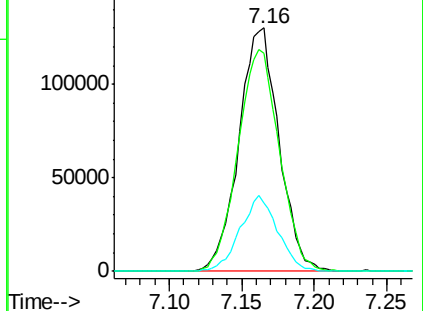
121 27.8 24.6 36.8



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: 0.981 ppbv

RT: 7.03 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

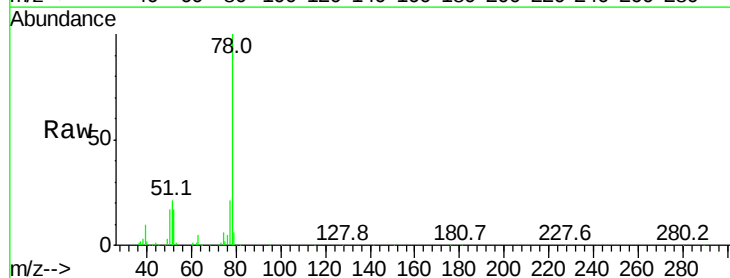
Tgt Ion: 78 Resp: 304618

Ion Ratio Lower Upper

78 100

77 21.4 18.4 27.6

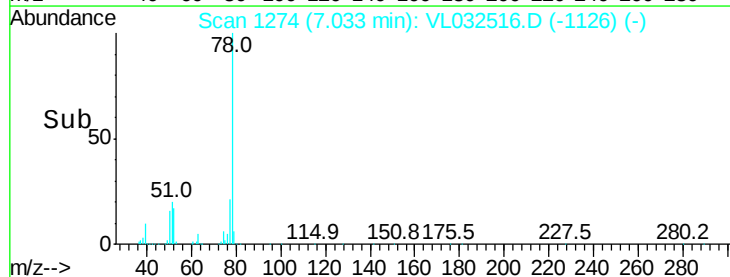
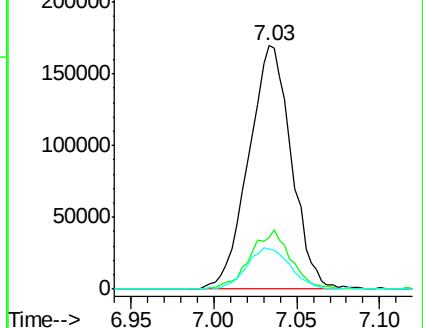
50 16.4 14.4 21.6

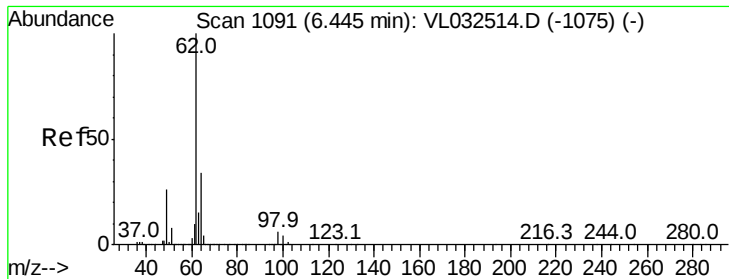


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.979 ppbv

RT: 6.44 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

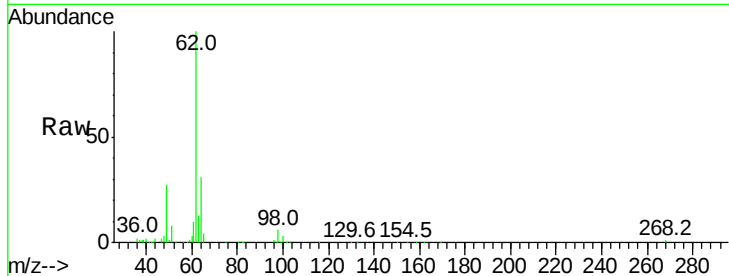
VSTDIC001

Tgt Ion: 62 Resp: 186411

Ion Ratio Lower Upper

62 100

98 6.5 5.0 7.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

120000

100000

80000

60000

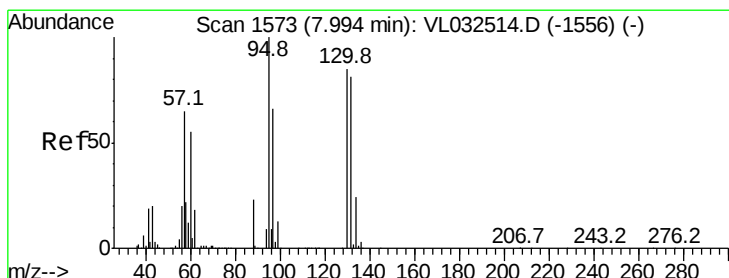
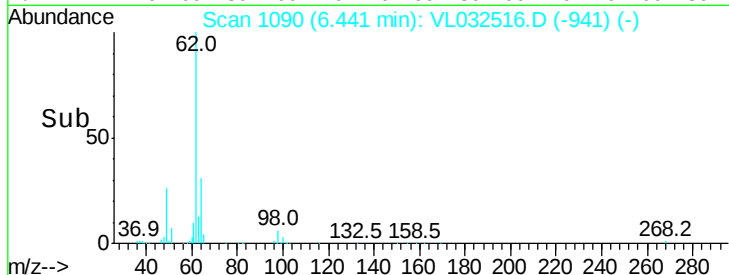
40000

20000

0

6.40 6.45 6.50

Time-->



#38

Trichloroethene

Concen: 0.955 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Tgt Ion: 130 Resp: 112719

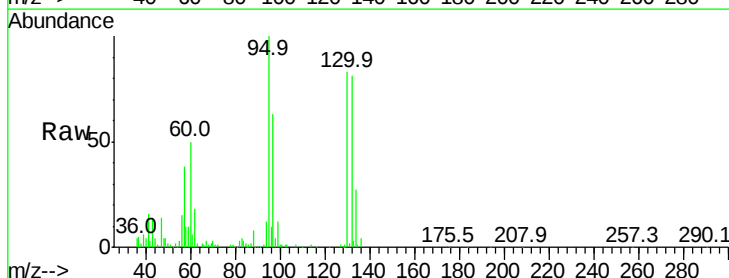
Ion Ratio Lower Upper

130 100

95 120.2 94.2 141.4

132 97.6 76.2 114.4

97 76.9 60.8 91.2



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

100000

80000

60000

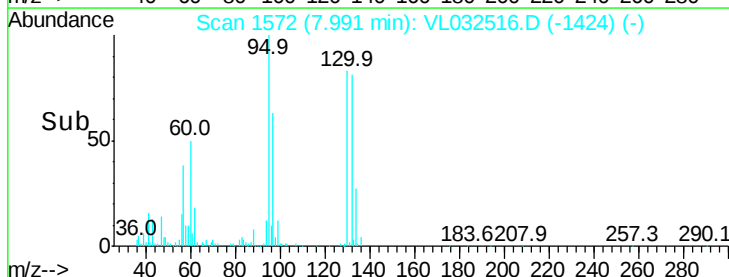
40000

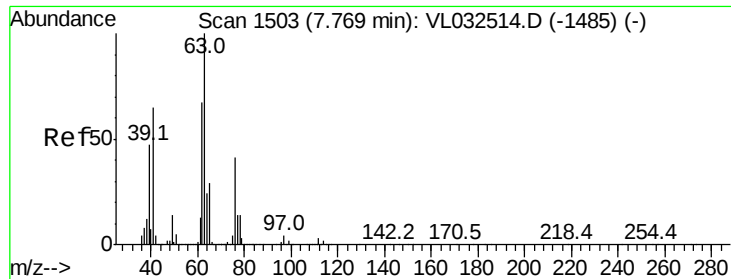
20000

0

7.90 7.95 8.00 8.05

Time-->

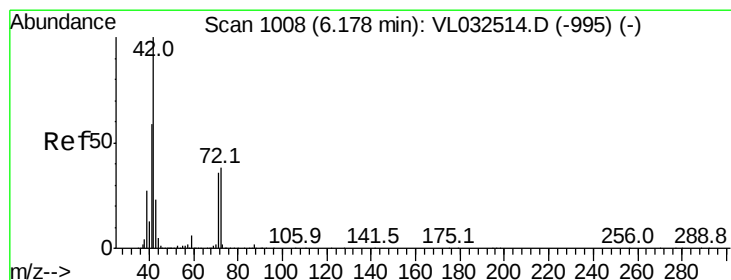
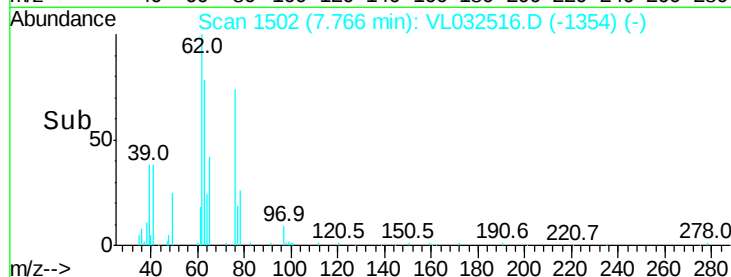
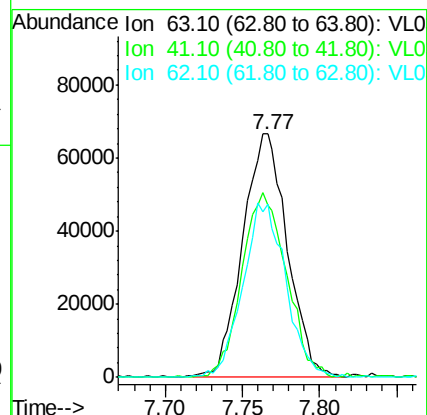
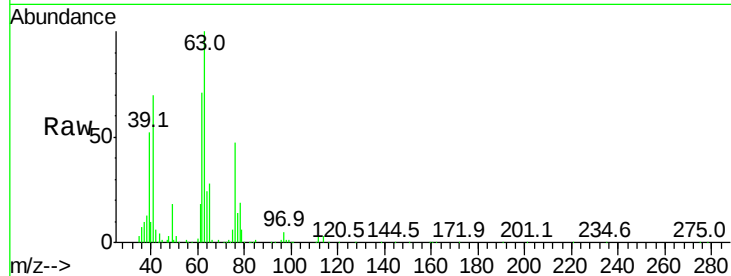




#39
 1,2-Dichloropropane
 Concen: 1.008 ppbv
 RT: 7.77 min Scan# 1502
 Delta R.T. -0.02 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

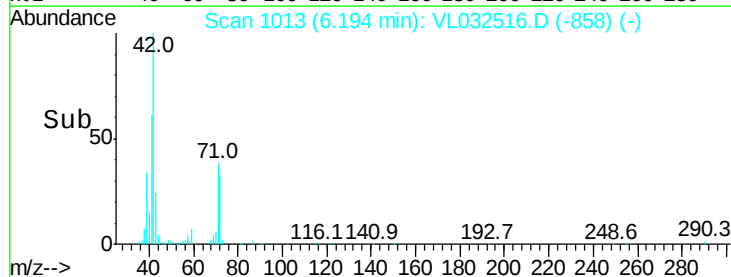
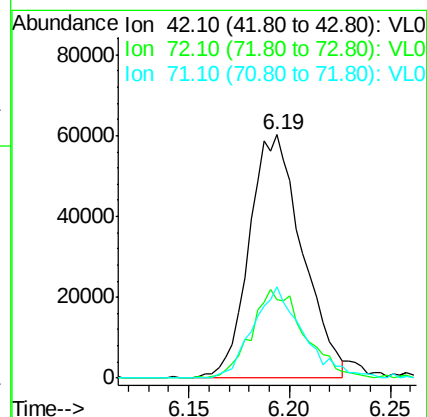
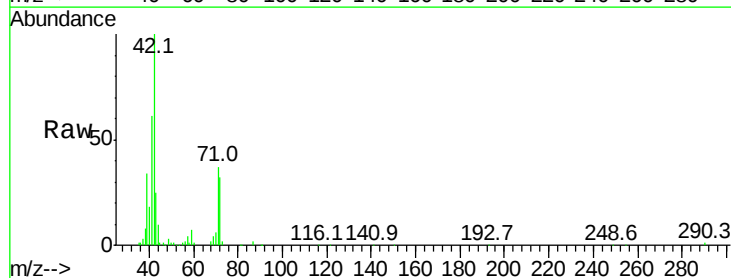
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

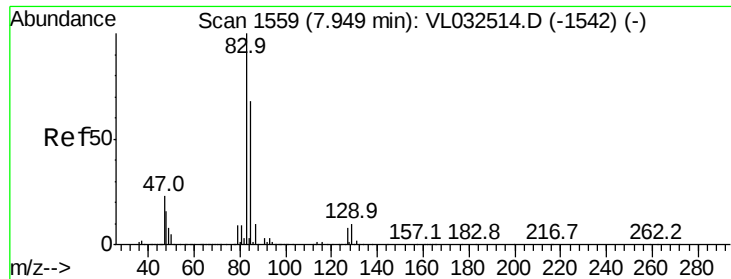
Tgt Ion: 63 Resp: 134006
 Ion Ratio Lower Upper
 63 100
 41 70.5 55.4 83.0
 62 70.2 55.4 83.0



#41
 Tetrahydrofuran
 Concen: 0.830 ppbv
 RT: 6.19 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

Tgt Ion: 42 Resp: 109517
 Ion Ratio Lower Upper
 42 100
 72 36.9 29.5 44.3
 71 36.3 28.3 42.5





#42

Bromodichloromethane

Concen: 1.030 ppbv

RT: 7.95 min Scan# 1558

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

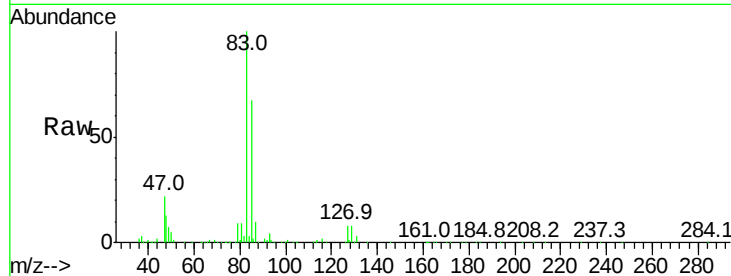
Tgt Ion: 83 Resp: 270339

Ion Ratio Lower Upper

83 100

85 66.3 51.1 76.7

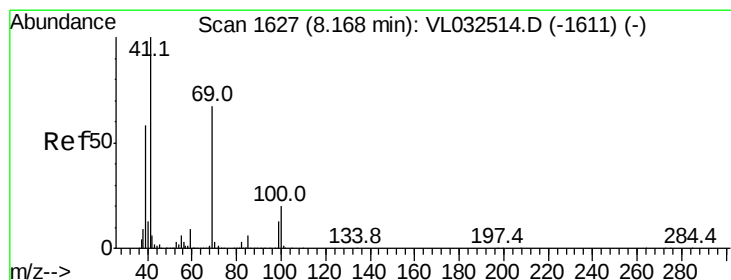
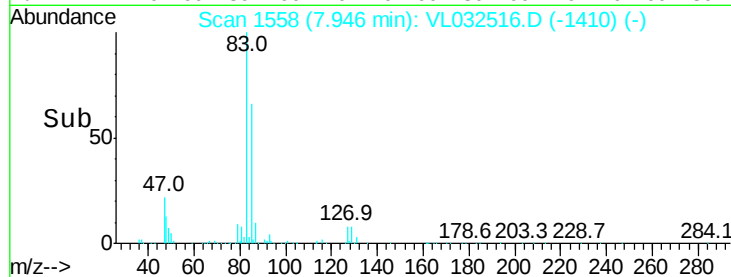
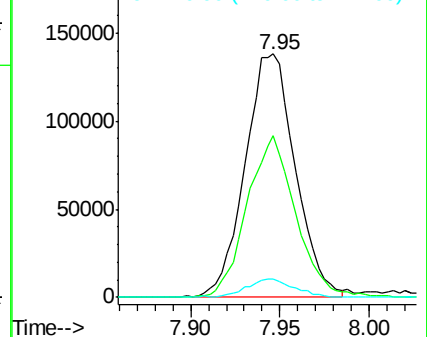
127 7.7 5.8 8.8



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: 0.870 ppbv

RT: 8.17 min Scan# 1627

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

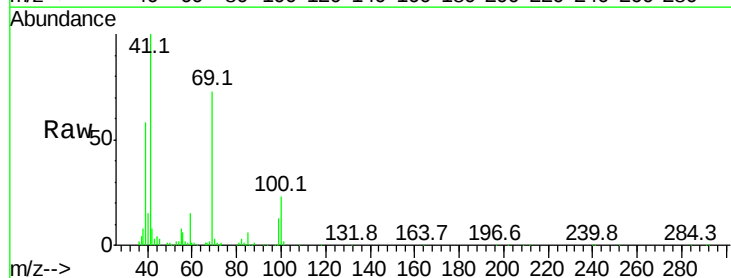
Tgt Ion: 69 Resp: 114653

Ion Ratio Lower Upper

69 100

41 147.1 117.1 175.7

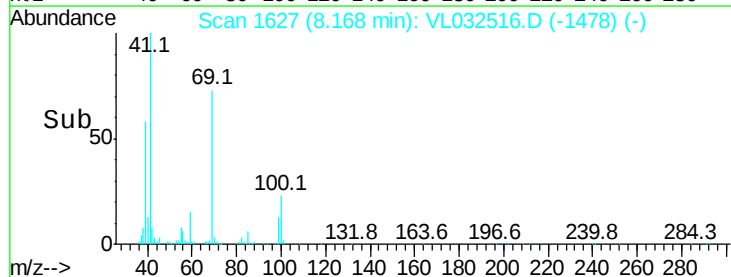
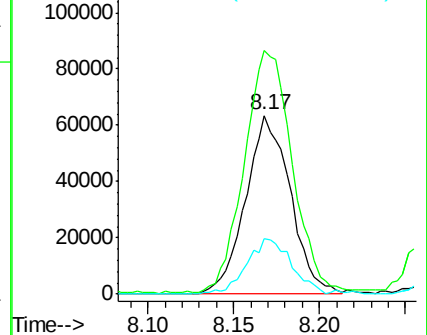
100 31.3 23.4 35.2

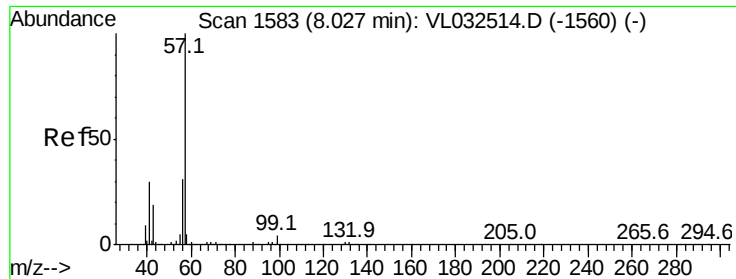


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

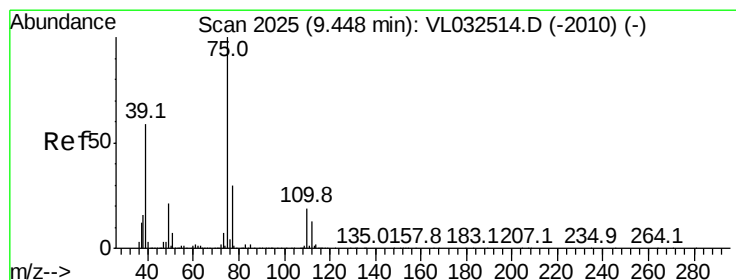
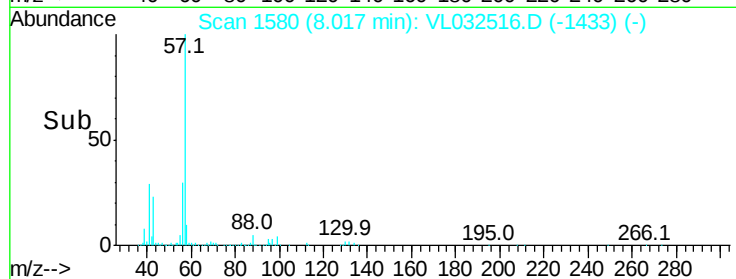
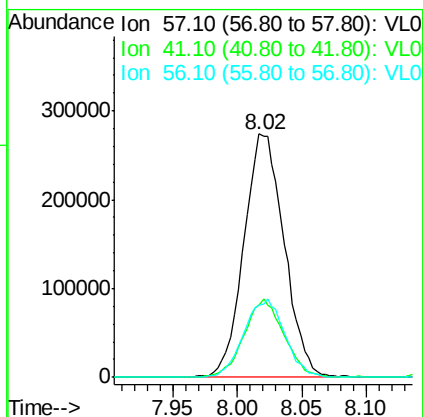
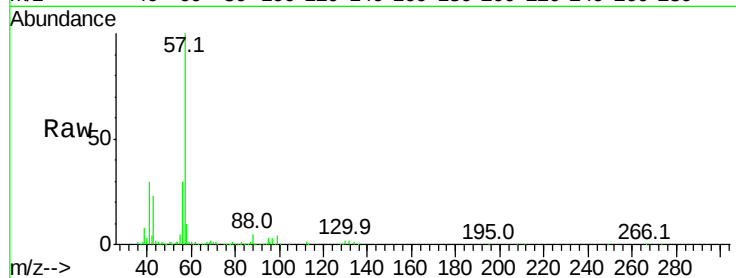




#44
2,2,4-Trimethylpentane
Concen: 0.994 ppbv
RT: 8.02 min Scan# 1580
Delta R.T. -0.03 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

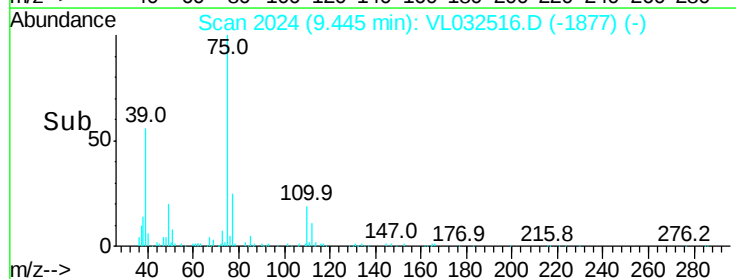
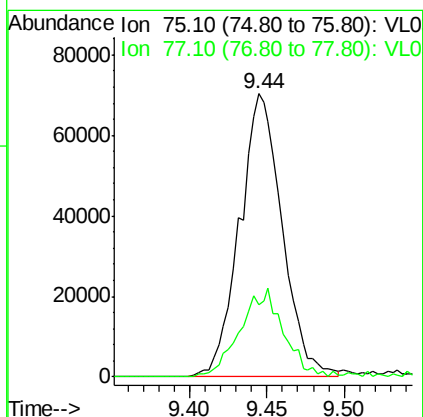
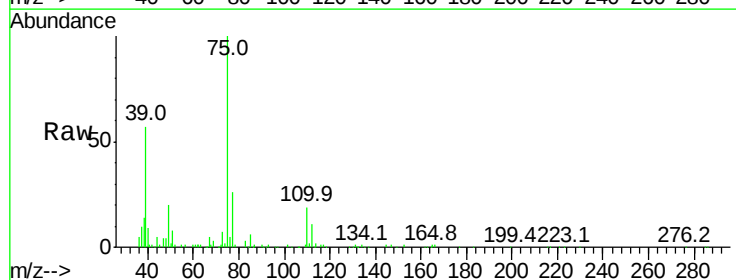
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

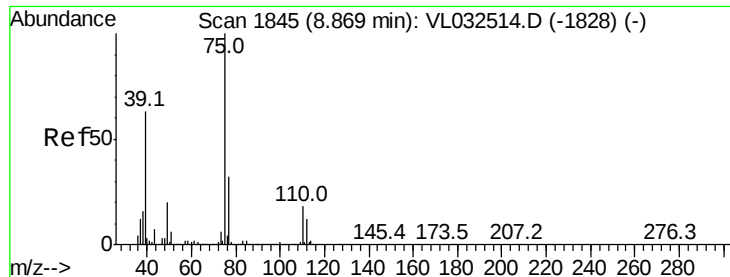
Tgt Ion: 57 Resp: 597033
Ion Ratio Lower Upper
57 100
41 32.1 24.4 36.6
56 32.7 25.7 38.5



#45
t-1,3-Dichloropropene
Concen: 0.954 ppbv
RT: 9.44 min Scan# 2024
Delta R.T. -0.03 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

Tgt Ion: 75 Resp: 134590
Ion Ratio Lower Upper
75 100
77 25.6 26.2 39.2#

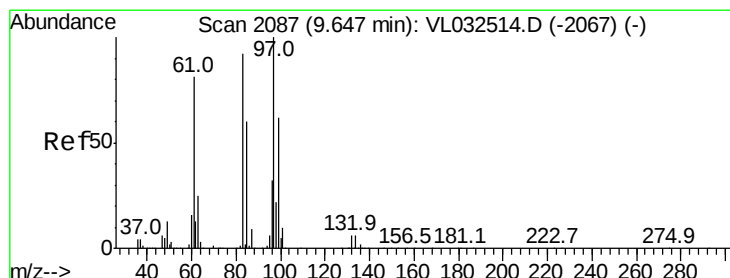
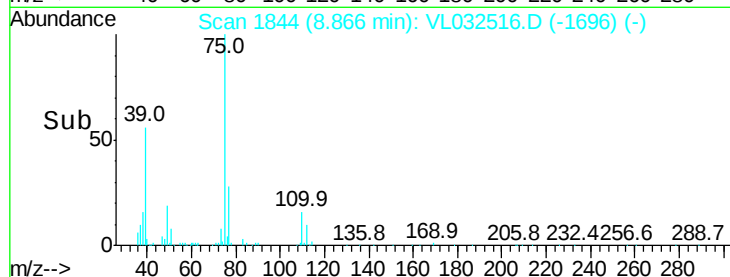
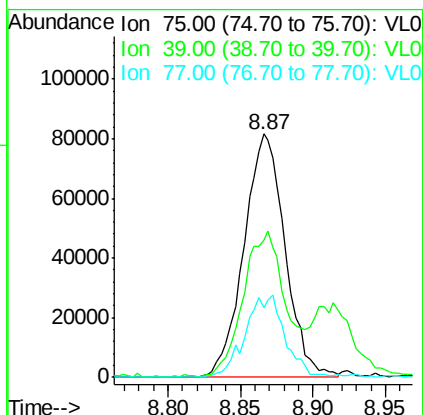
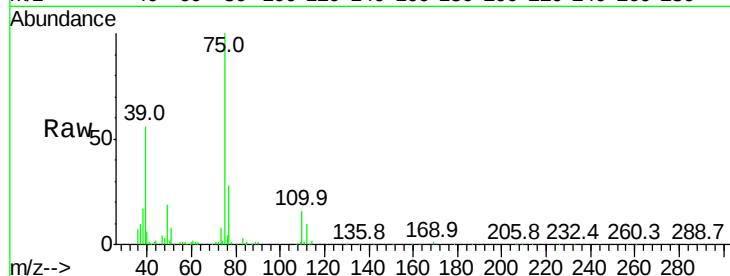




#46
 cis-1,3-Dichloropropene
 Concen: 0.892 ppbv
 RT: 8.87 min Scan# 1844
 Delta R.T. -0.02 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

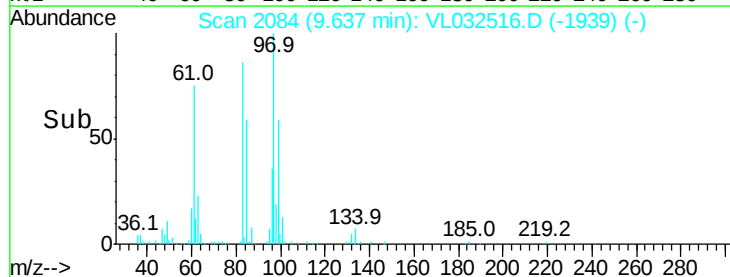
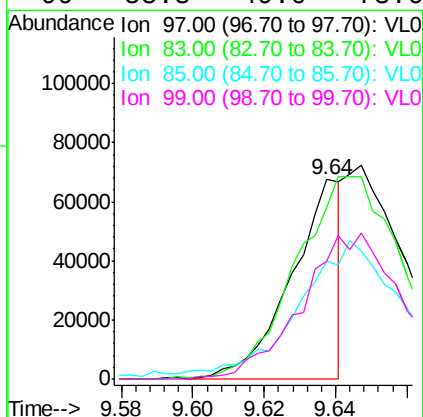
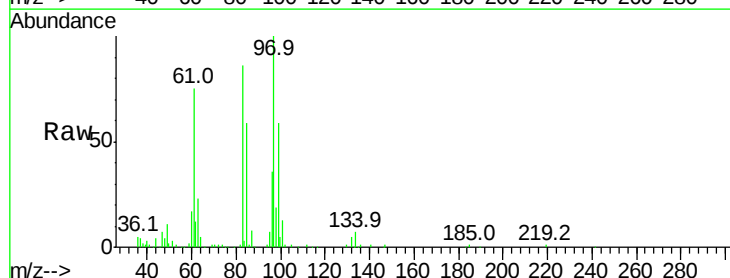
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

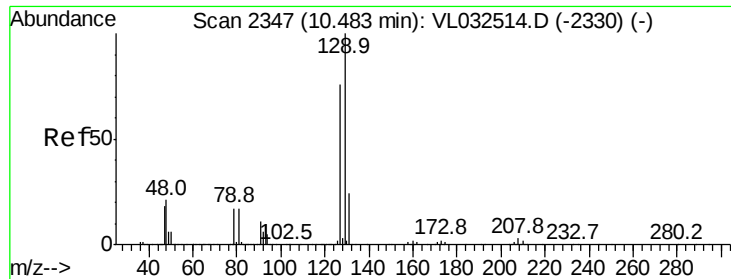
Tgt Ion: 75 Resp: 160770
 Ion Ratio Lower Upper
 75 100
 39 55.6 48.9 73.3
 77 28.3 25.4 38.0



#47
 1,1,2-Trichloroethane
 Concen: 0.464 ppbv
 RT: 9.64 min Scan# 2084
 Delta R.T. -0.03 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

Tgt Ion: 97 Resp: 65530
 Ion Ratio Lower Upper
 97 100
 83 85.5 75.0 112.4
 85 55.4 47.5 71.3
 99 58.8 49.0 73.6





#48

Dibromochloromethane

Concen: 1.177 ppbv

RT: 10.48 min Scan# 2347

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

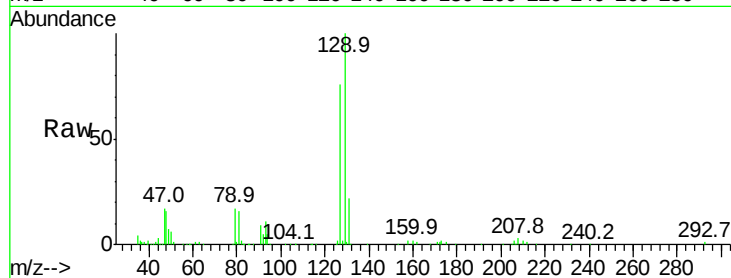
VSTDIC001

Tgt Ion:129 Resp: 230440

Ion Ratio Lower Upper

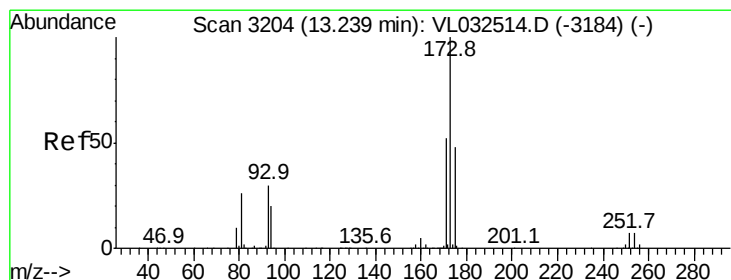
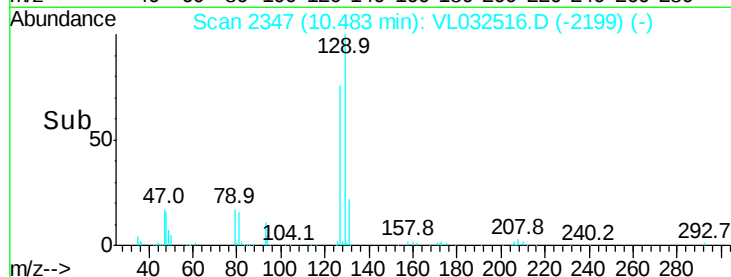
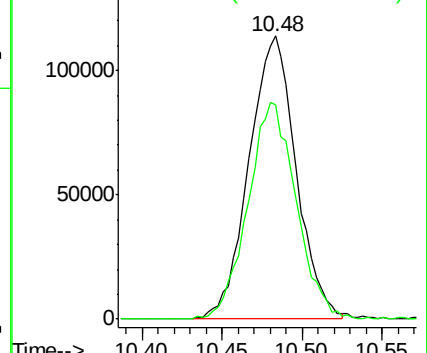
129 100

127 79.0 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.551 ppbv

RT: 13.23 min Scan# 3201

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

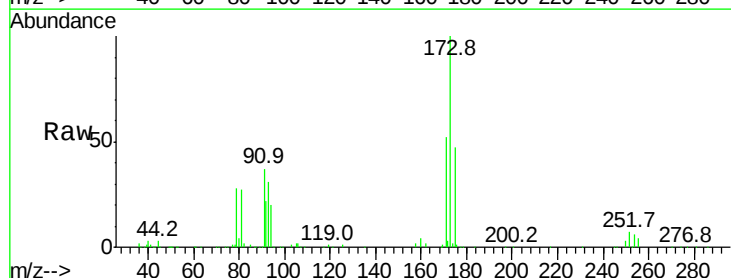
Tgt Ion:173 Resp: 93811

Ion Ratio Lower Upper

173 100

175 0.0 38.9 58.3#

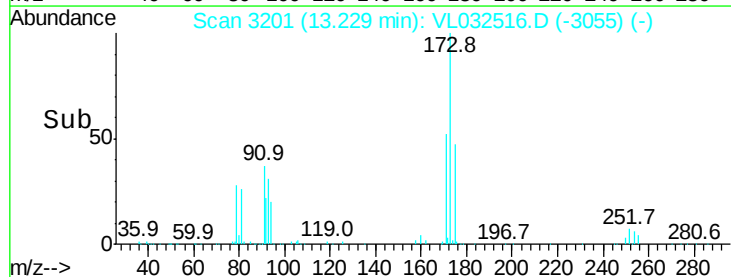
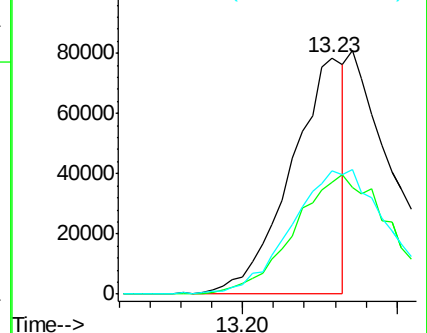
171 0.0 41.6 62.4#

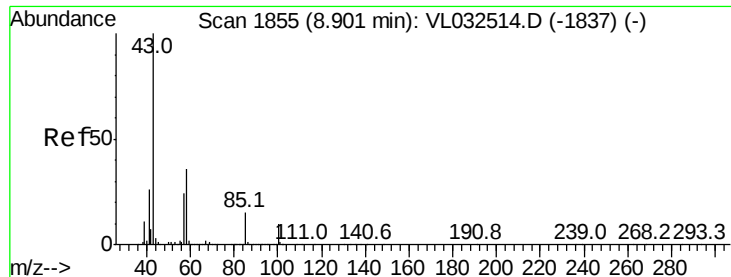


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V

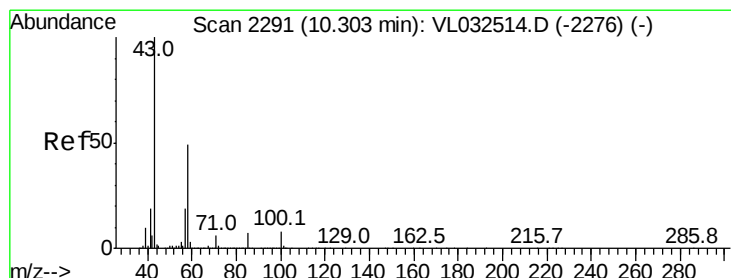
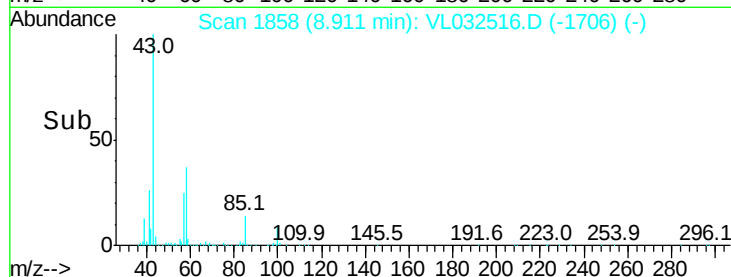
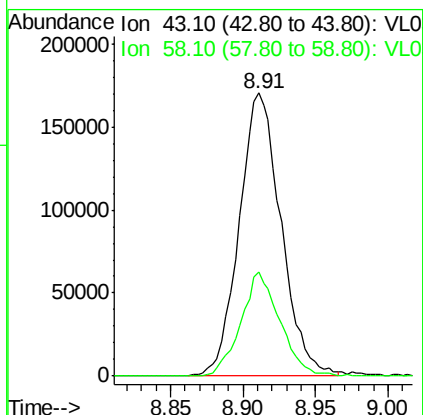
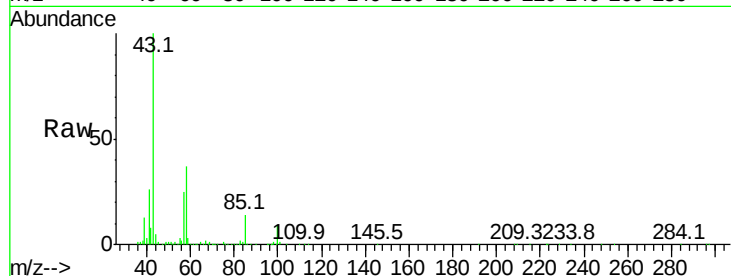




#50
4-Methyl-2-Pentanone
Concen: 0.932 ppbv
RT: 8.91 min Scan# 1858
Delta R.T. -0.01 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

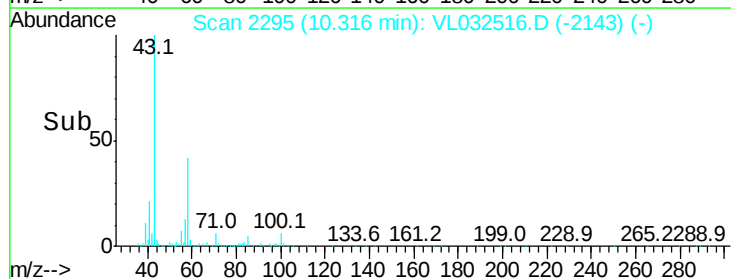
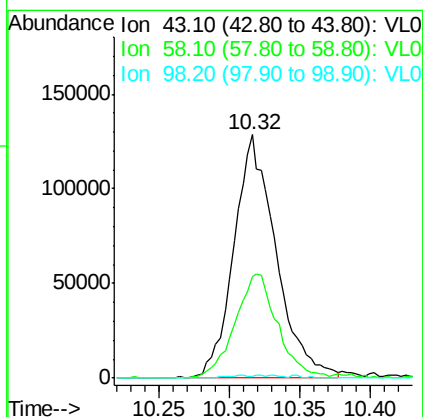
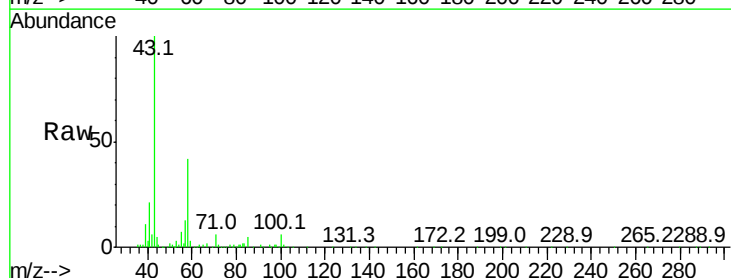
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

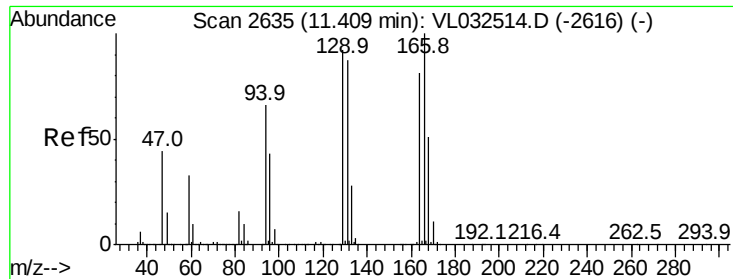
Tgt Ion: 43 Resp: 340488
Ion Ratio Lower Upper
43 100
58 34.6 29.0 43.4



#51
2-Hexanone
Concen: 1.144 ppbv
RT: 10.32 min Scan# 2295
Delta R.T. -0.01 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

Tgt Ion: 43 Resp: 269228
Ion Ratio Lower Upper
43 100
58 44.1 39.2 58.8
98 1.7 0.4 0.6#





#52

Tetrachloroethene

Concen: 1.029 ppbv

RT: 11.40 min Scan# 2633

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 99115

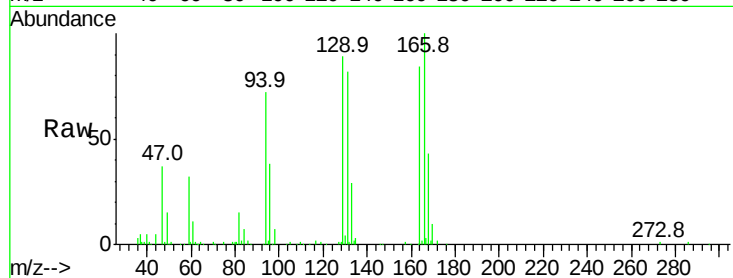
Ion Ratio Lower Upper

164 100

166 117.7 100.6 150.8

129 106.0 89.9 134.9

131 98.3 85.9 128.9

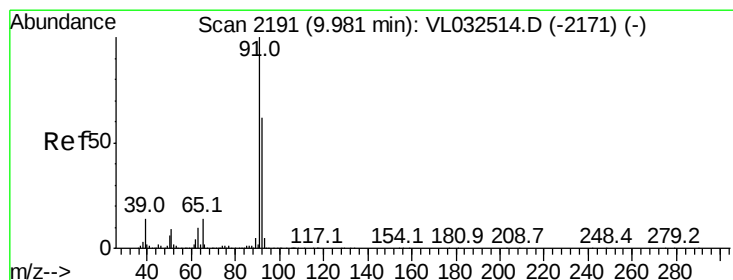
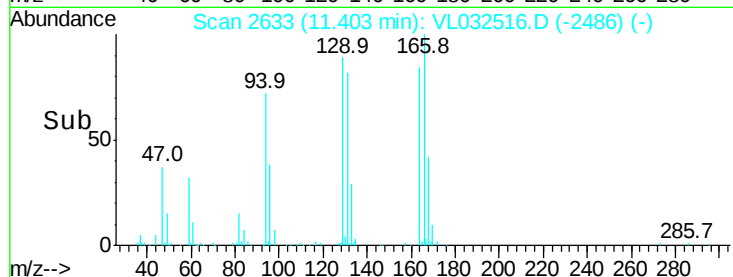
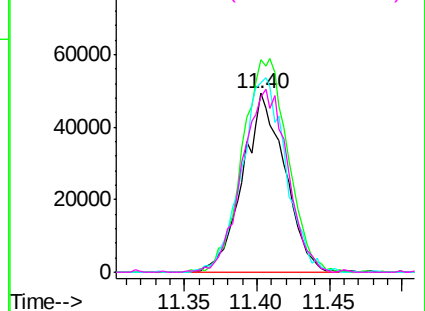


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.037 ppbv

RT: 9.98 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VL032516.D

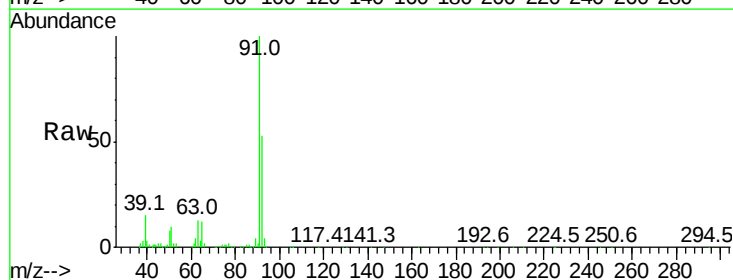
Acq: 24 Sep 2018 17:45

Tgt Ion: 91 Resp: 336600

Ion Ratio Lower Upper

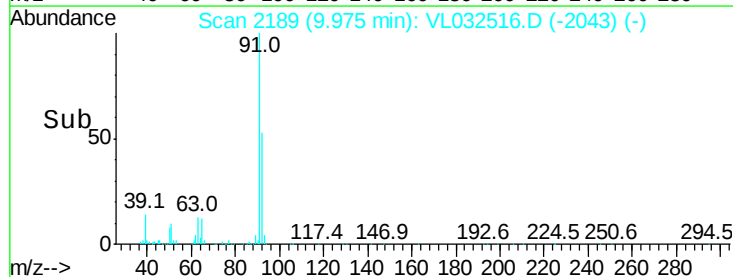
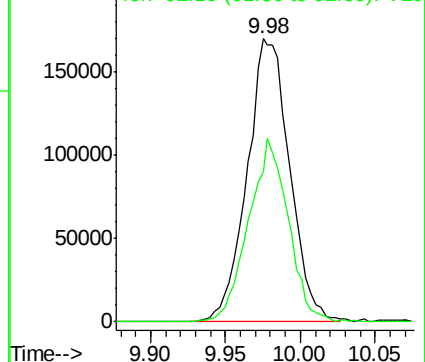
91 100

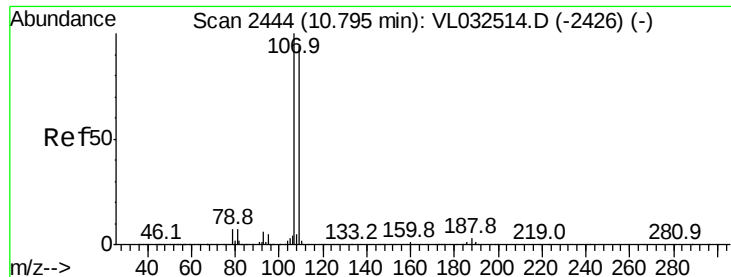
92 60.4 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 1.093 ppbv

RT: 10.79 min Scan# 2442

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

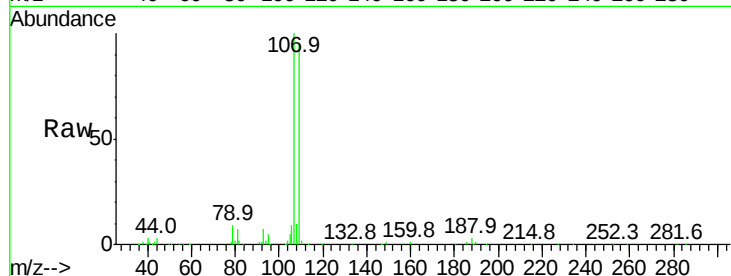
VSTDIC001

Tgt Ion:107 Resp: 207291

Ion Ratio Lower Upper

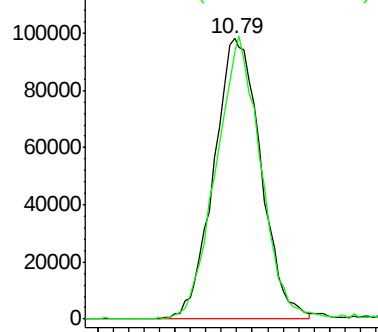
107 100

109 95.0 73.9 110.9

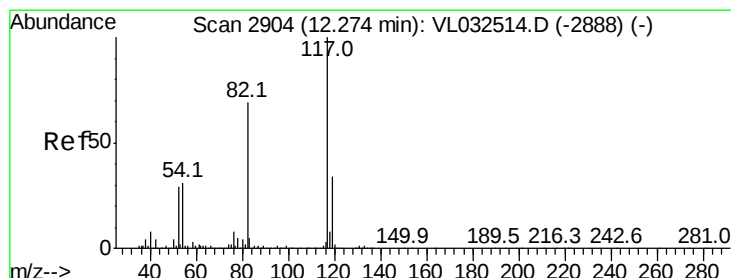
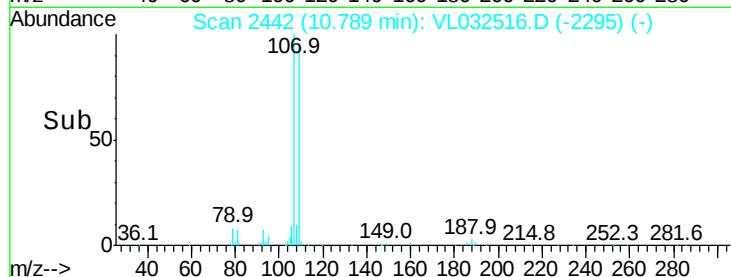


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

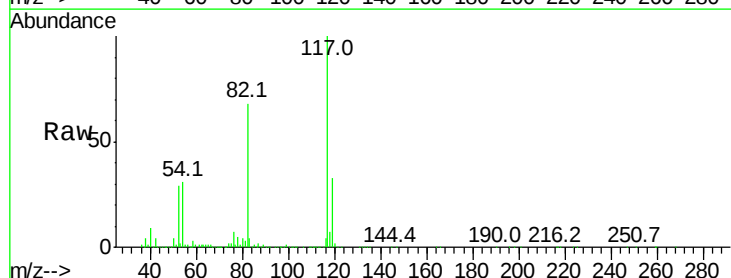
Tgt Ion:117 Resp: 3571844

Ion Ratio Lower Upper

117 100

82 66.5 53.0 79.6

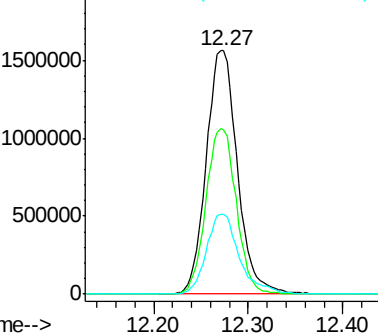
119 34.8 45.9 68.9#



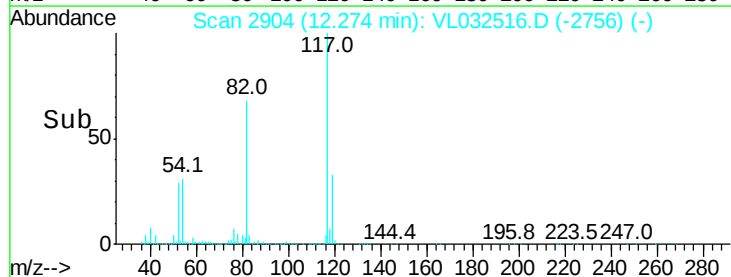
Abundance Ion 117.10 (116.80 to 117.80): V

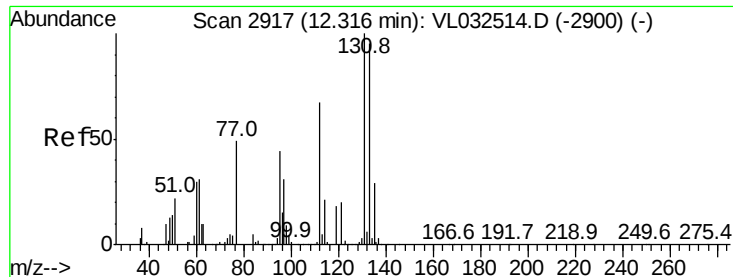
Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



Time-->

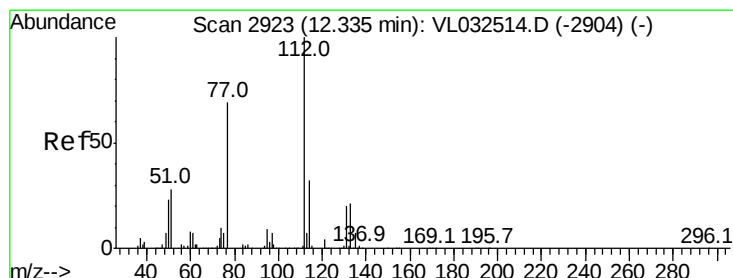
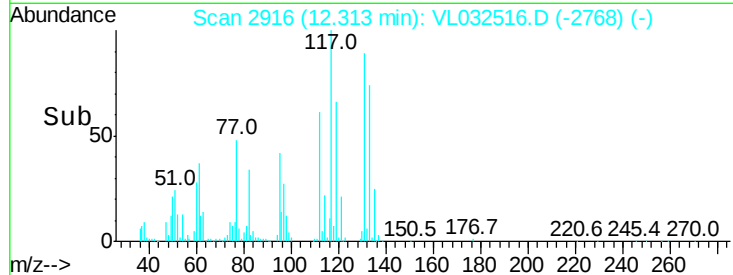
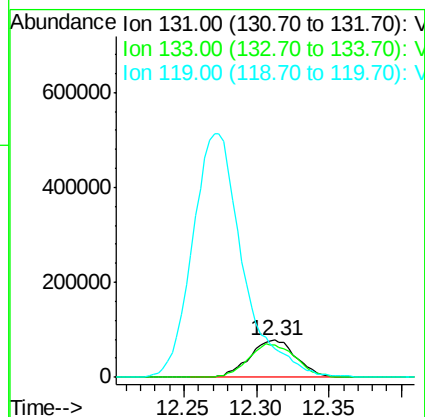
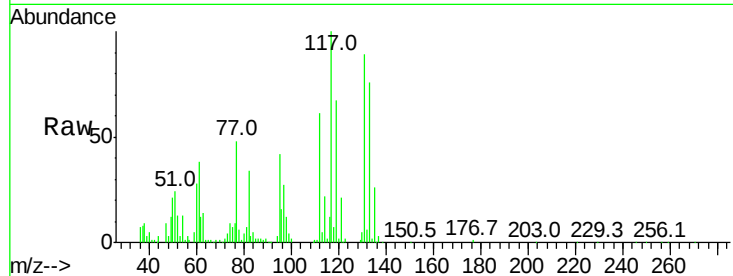




#56
 1,1,1,2-Tetrachloroethane
 Concen: 1.091 ppbv
 RT: 12.31 min Scan# 2916
 Delta R.T. -0.02 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

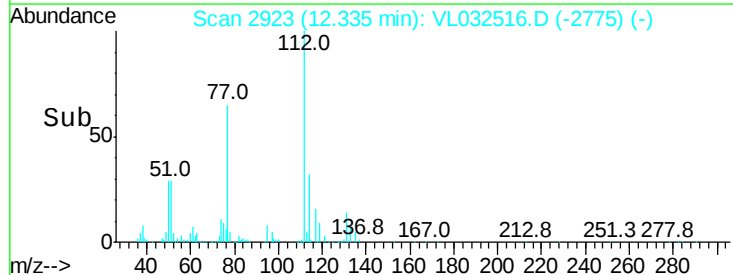
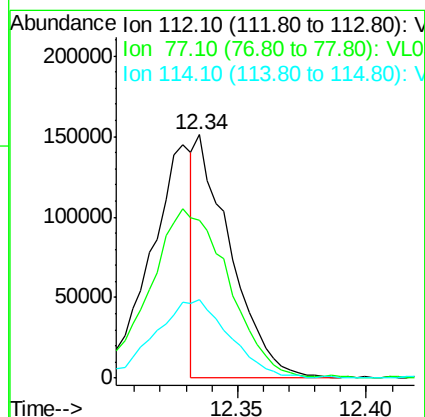
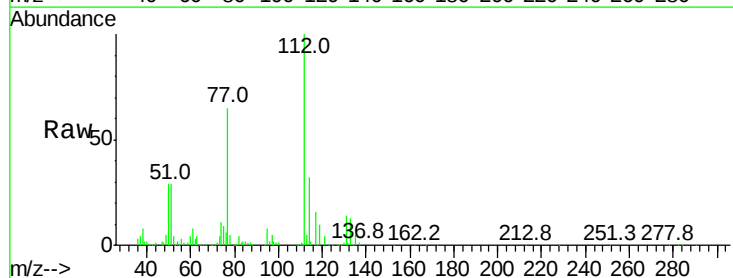
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

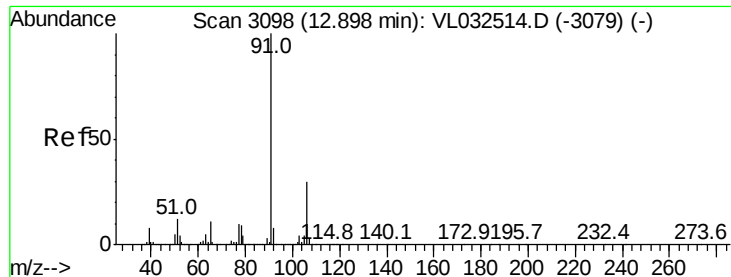
Tgt Ion:131 Resp: 175696
 Ion Ratio Lower Upper
 131 100
 133 91.2 77.0 115.4
 119 707.1 114.2 171.2#



#57
 Chlorobenzene
 Concen: 0.494 ppbv
 RT: 12.34 min Scan# 2923
 Delta R.T. -0.02 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

Tgt Ion:112 Resp: 141085
 Ion Ratio Lower Upper
 112 100
 77 64.7 56.1 84.1
 114 32.3 27.8 34.0





#58

Ethyl Benzene

Concen: 1.012 ppbv

RT: 12.89 min Scan# 3097

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

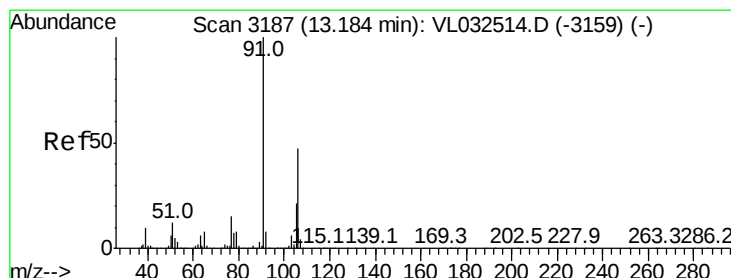
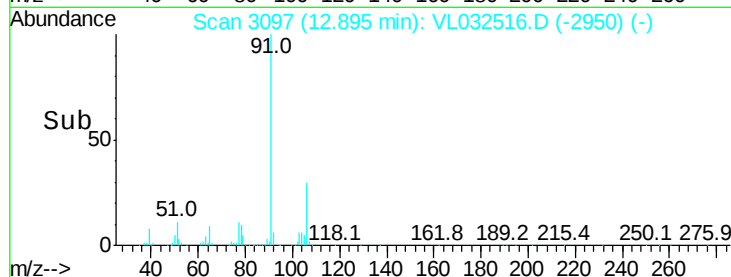
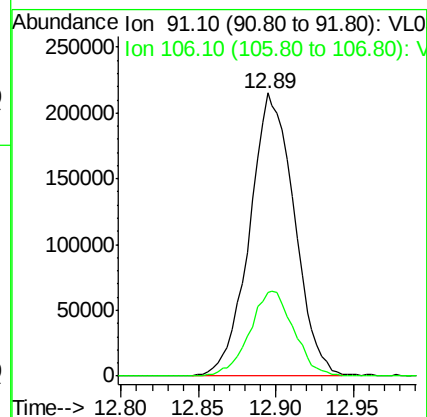
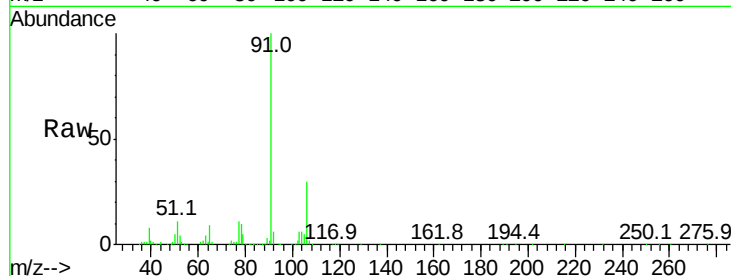
VSTDIC001

Tgt Ion: 91 Resp: 432593

Ion Ratio Lower Upper

91 100

106 29.6 24.8 37.2



#59

m/p-Xylene

Concen: 0.526 ppbv

RT: 13.18 min Scan# 3186

Delta R.T. -0.03 min

Lab File: VL032516.D

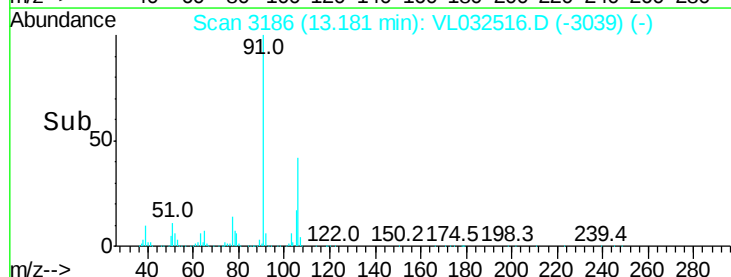
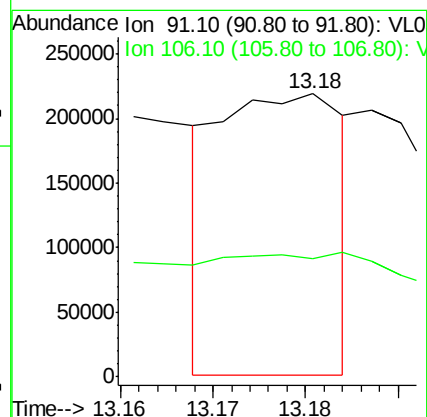
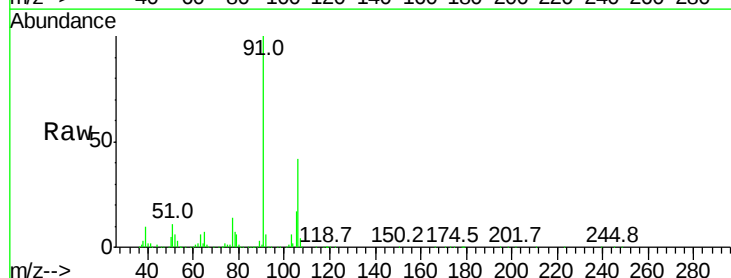
Acq: 24 Sep 2018 17:45

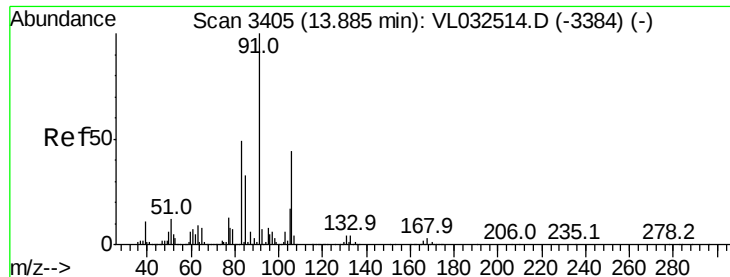
Tgt Ion: 91 Resp: 200629

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#

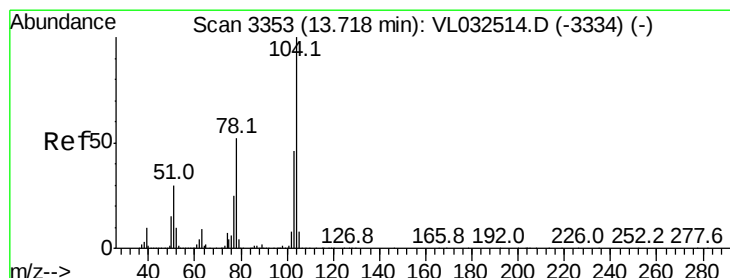
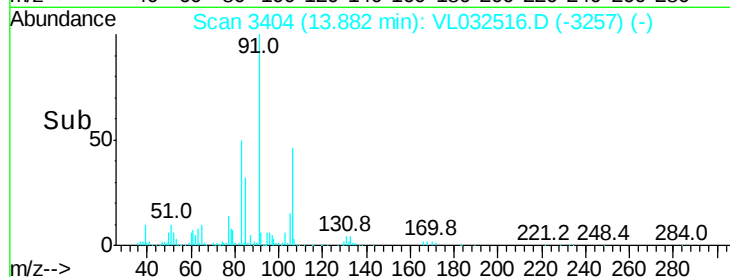
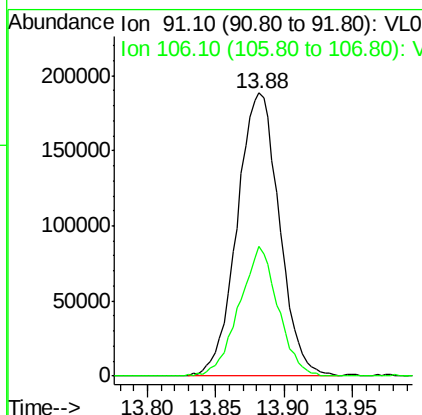
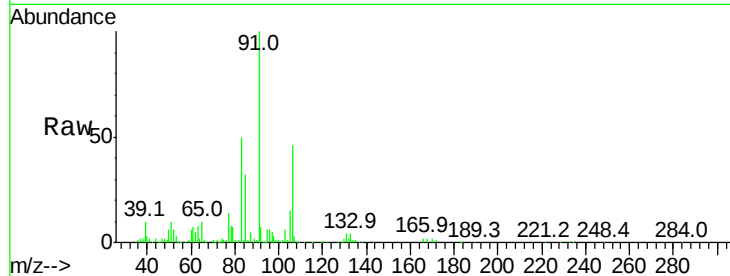




#60
o-Xylene
Concen: 1.075 ppbv
RT: 13.88 min Scan# 3404
Delta R.T. -0.03 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

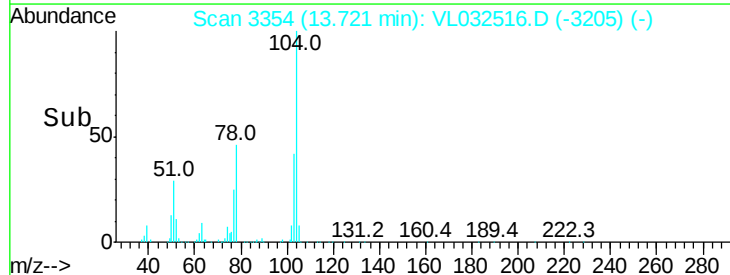
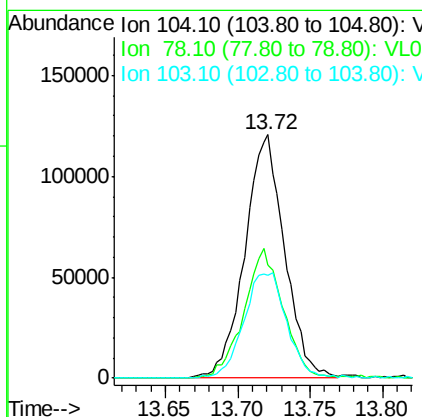
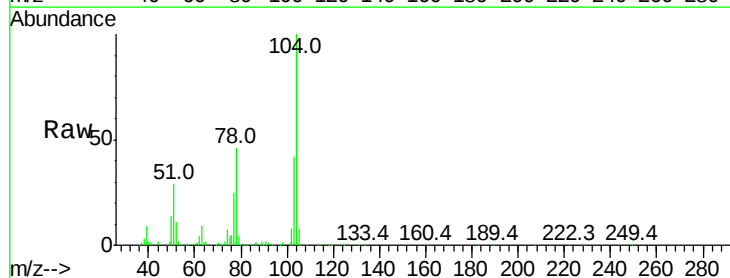
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

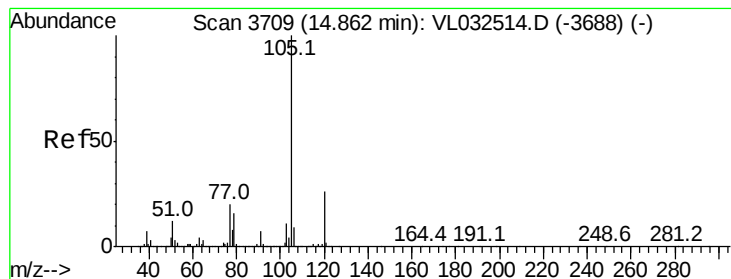
Tgt Ion: 91 Resp: 402249
Ion Ratio Lower Upper
91 100
106 42.9 21.9 65.7



#61
Styrene
Concen: 0.952 ppbv
RT: 13.72 min Scan# 3354
Delta R.T. -0.02 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

Tgt Ion: 104 Resp: 230618
Ion Ratio Lower Upper
104 100
78 53.4 41.8 62.8
103 46.7 38.0 57.0





#62

Isopropylbenzene

Concen: 1.048 ppbv

RT: 14.86 min Scan# 3708

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

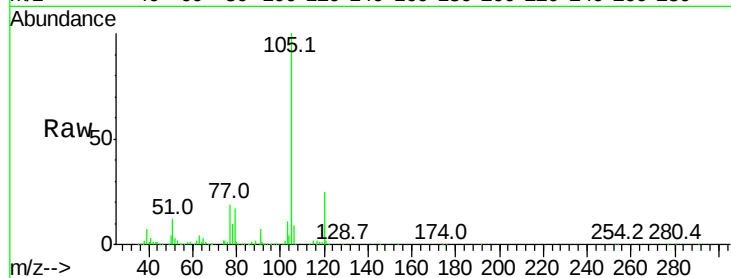
VSTDIC001

Tgt Ion:105 Resp: 551614

Ion Ratio Lower Upper

105 100

120 26.0 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

300000

250000

200000

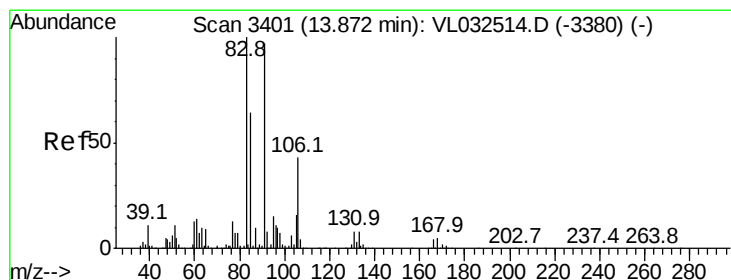
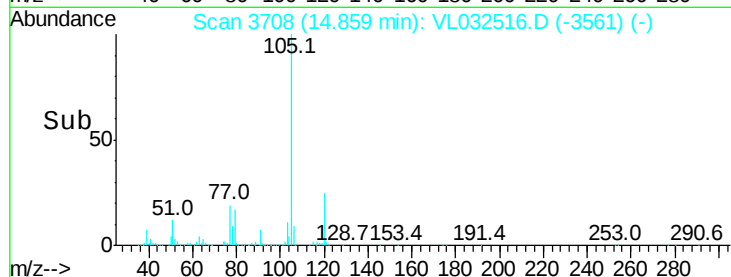
150000

100000

50000

0

Time-->



#63

1,1,2,2-Tetrachloroethane

Concen: 1.050 ppbv

RT: 13.87 min Scan# 3399

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

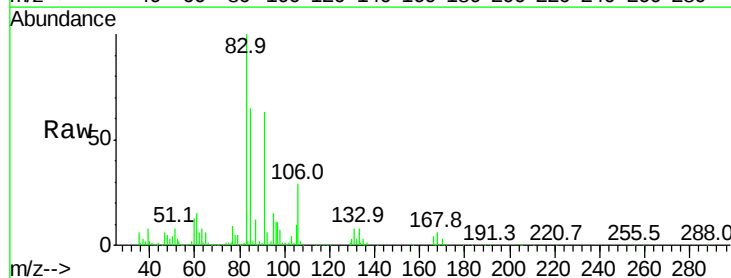
Tgt Ion: 83 Resp: 351260

Ion Ratio Lower Upper

83 100

131 8.9 4.3 12.8

85 63.8 32.3 96.8



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

200000

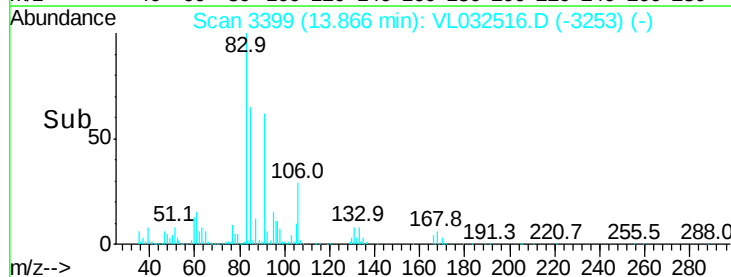
150000

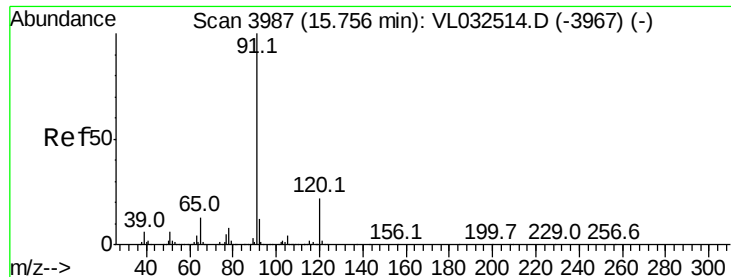
100000

50000

0

Time-->

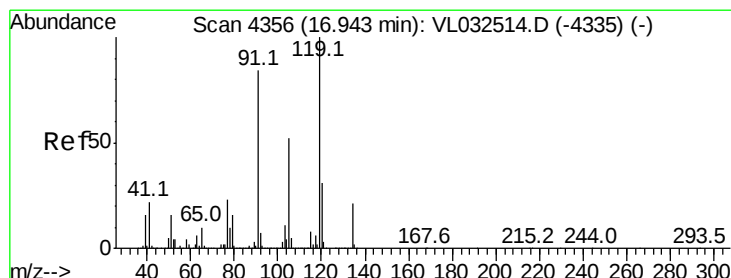
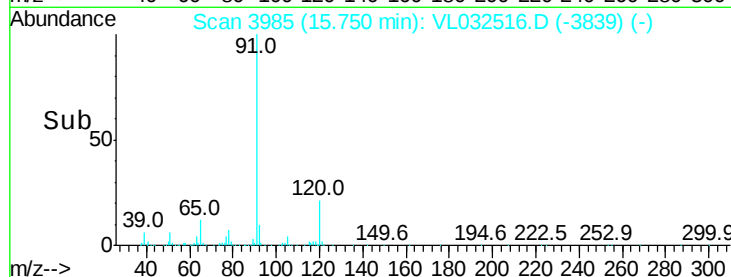
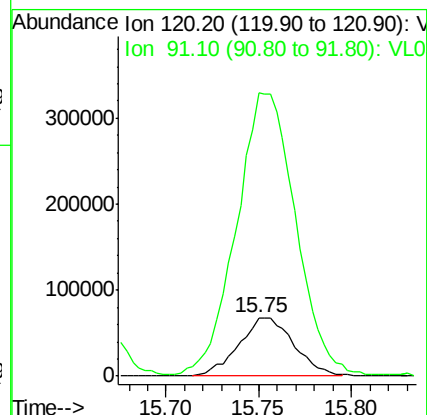
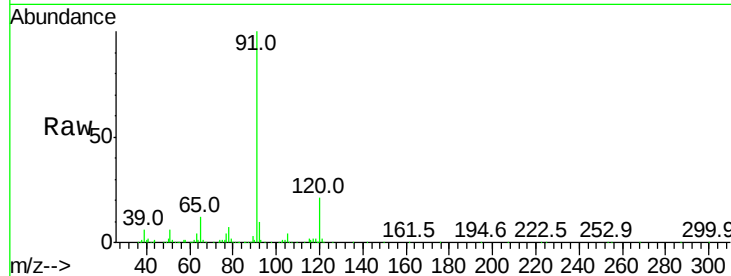




#64
n-propylbenzene
Concen: 1.023 ppbv
RT: 15.75 min Scan# 3985
Delta R.T. -0.03 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

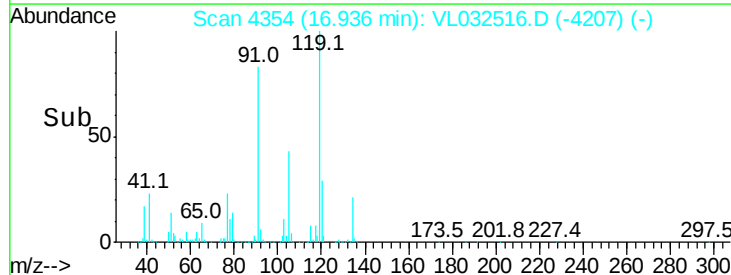
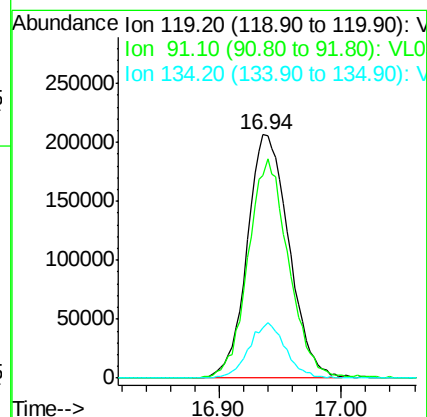
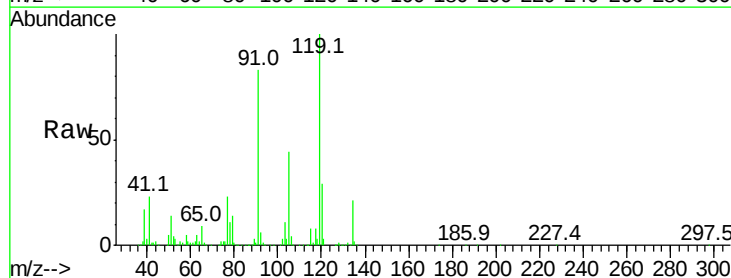
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

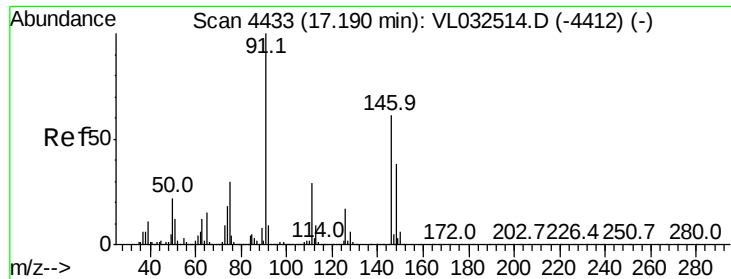
Tgt Ion:120 Resp: 140789
Ion Ratio Lower Upper
120 100
91 523.5 381.8 572.6



#65
tert-Butylbenzene
Concen: 1.074 ppbv
RT: 16.94 min Scan# 4354
Delta R.T. -0.03 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

Tgt Ion:119 Resp: 487186
Ion Ratio Lower Upper
119 100
91 87.7 66.5 99.7
134 20.0 16.0 24.0

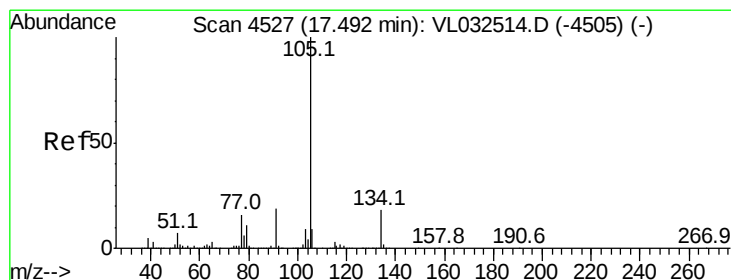
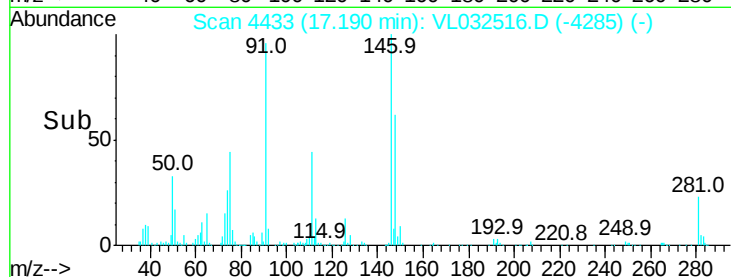
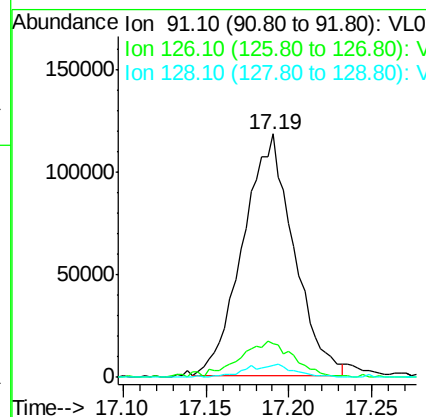
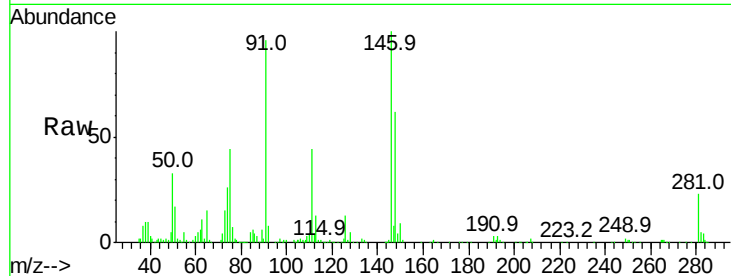




#66
Benzyl Chloride
Concen: 0.992 ppbv
RT: 17.19 min Scan# 4433
Delta R.T. -0.02 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

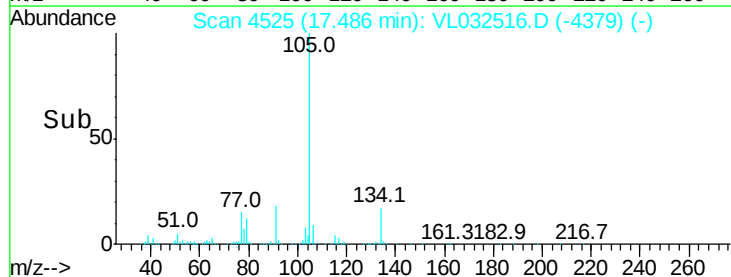
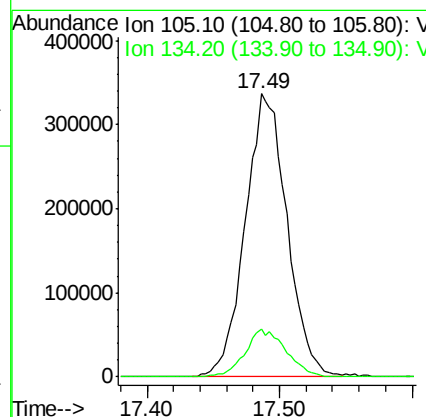
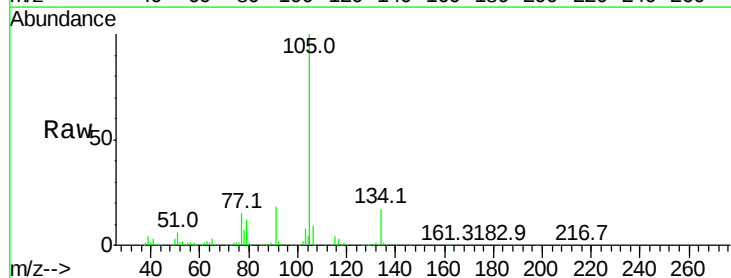
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

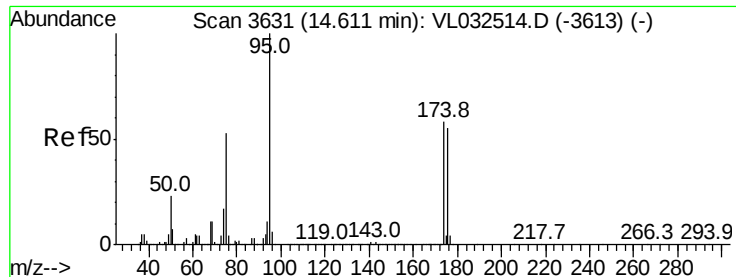
Tgt Ion: 91 Resp: 250514
Ion Ratio Lower Upper
91 100
126 17.3 13.8 20.8
128 5.4 4.4 6.6



#67
sec-Butylbenzene
Concen: 1.082 ppbv
RT: 17.49 min Scan# 4525
Delta R.T. -0.03 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

Tgt Ion: 105 Resp: 737691
Ion Ratio Lower Upper
105 100
134 16.8 14.4 21.6

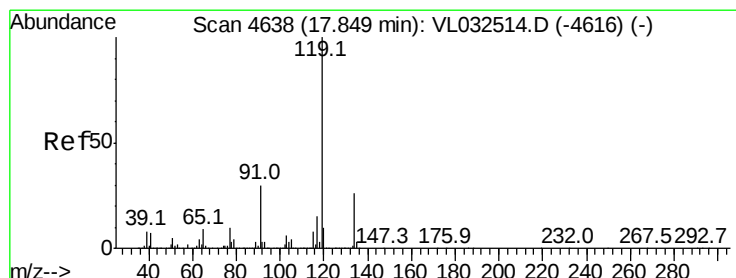
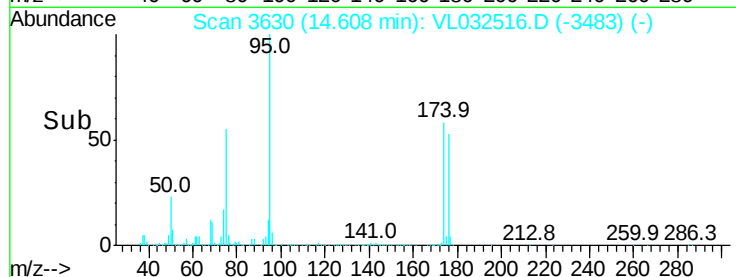
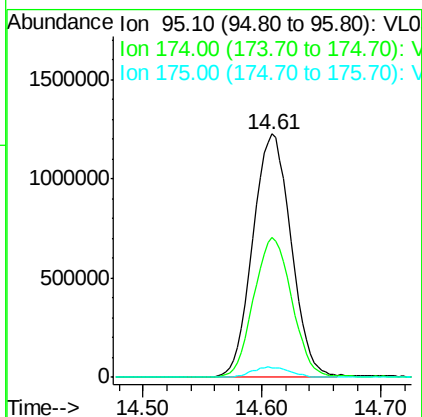
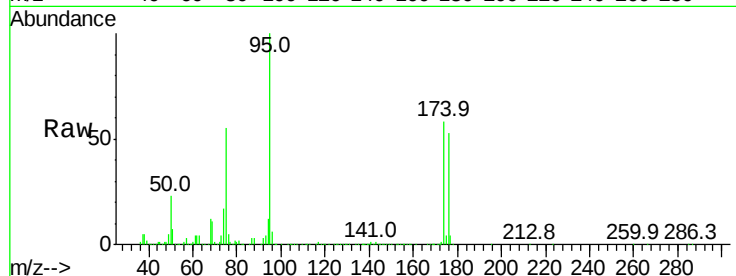




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.329 ppbv
 RT: 14.61 min Scan# 3630
 Delta R.T. -0.03 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

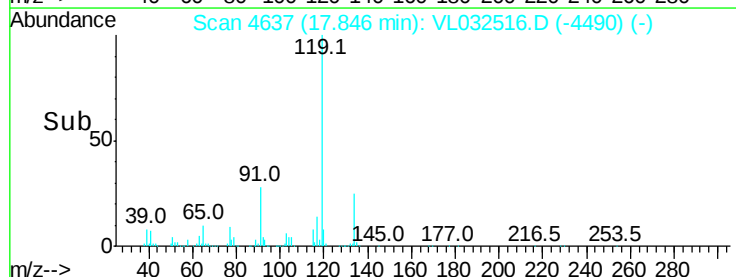
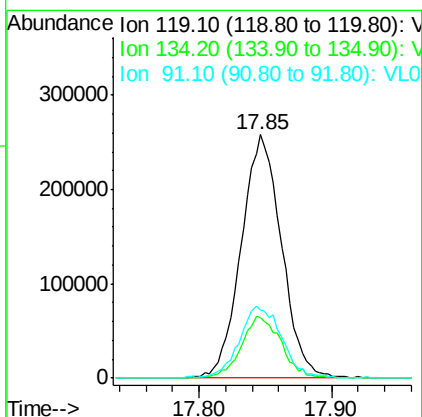
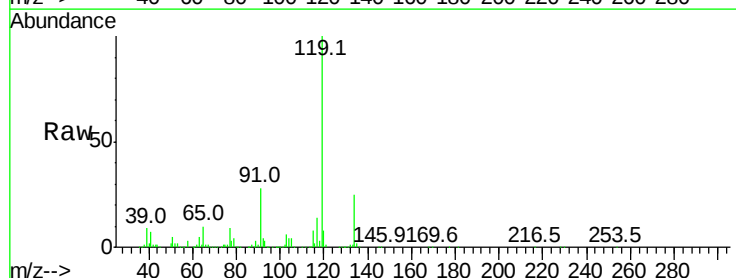
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

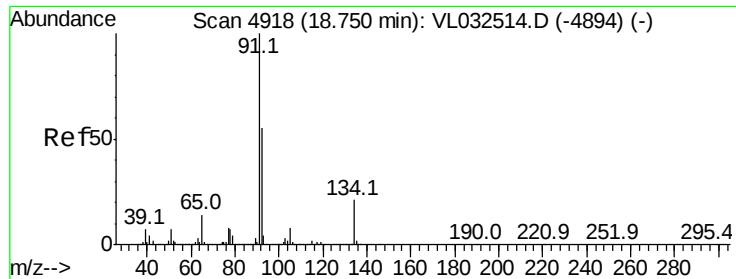
Tgt Ion: 95 Resp: 2739079
 Ion Ratio Lower Upper
 95 100
 174 57.5 46.3 69.5
 175 4.1 3.4 5.0



#69
 p-Isopropyltoluene
 Concen: 1.029 ppbv
 RT: 17.85 min Scan# 4637
 Delta R.T. -0.03 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

Tgt Ion: 119 Resp: 543904
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.4 30.6
 91 31.7 23.4 35.2





#70

n-Butylbenzene

Concen: 0.995 ppbv

RT: 18.74 min Scan# 4916

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

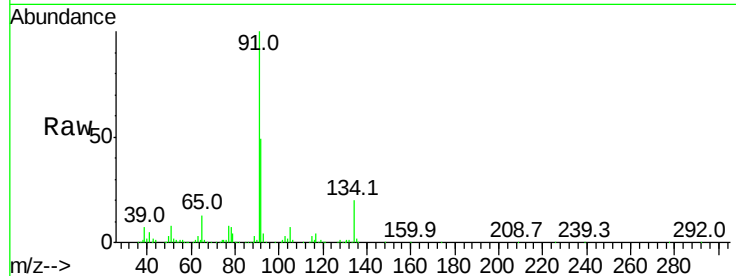
Tgt Ion: 91 Resp: 596076

Ion Ratio Lower Upper

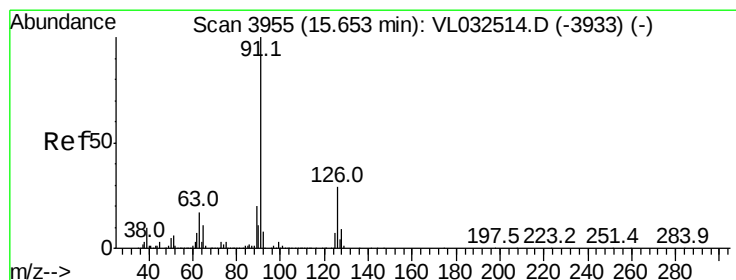
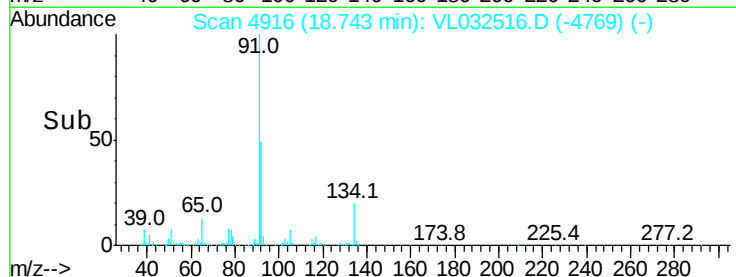
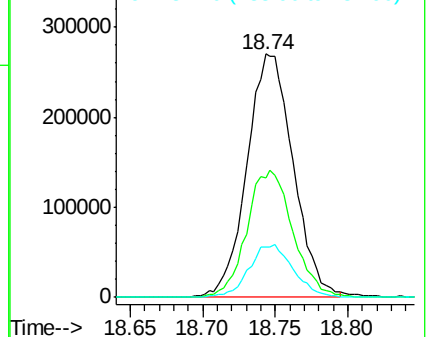
91 100

92 52.4 43.8 65.8

134 20.9 17.4 26.0



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: 1.029 ppbv

RT: 15.65 min Scan# 3954

Delta R.T. -0.03 min

Lab File: VL032516.D

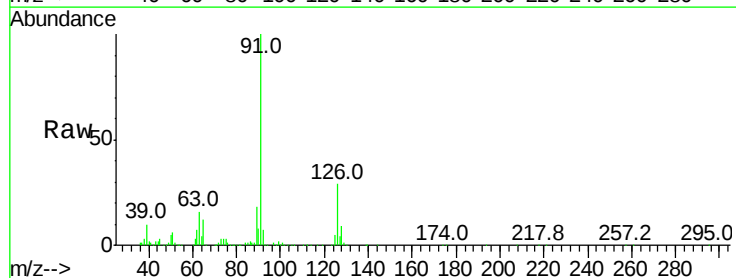
Acq: 24 Sep 2018 17:45

Tgt Ion: 91 Resp: 413665

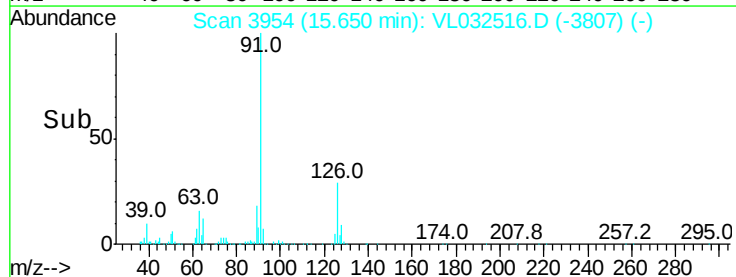
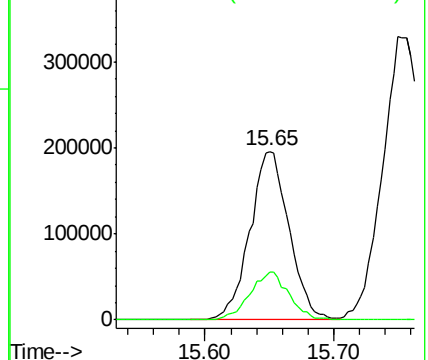
Ion Ratio Lower Upper

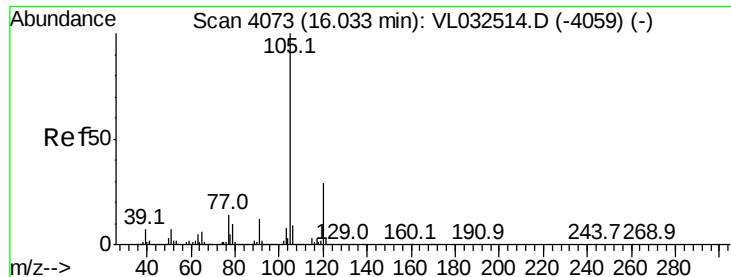
91 100

126 28.5 11.9 47.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.989 ppbv

RT: 16.03 min Scan# 4073

Delta R.T. -0.02 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 404308

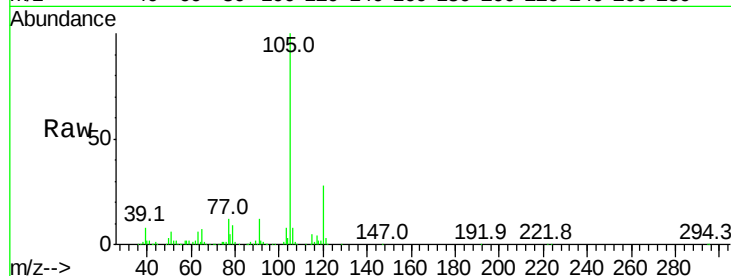
Ion Ratio Lower Upper

105 100

120 30.6 23.5 35.3

91 14.7 10.2 15.2

77 15.1 11.1 16.7

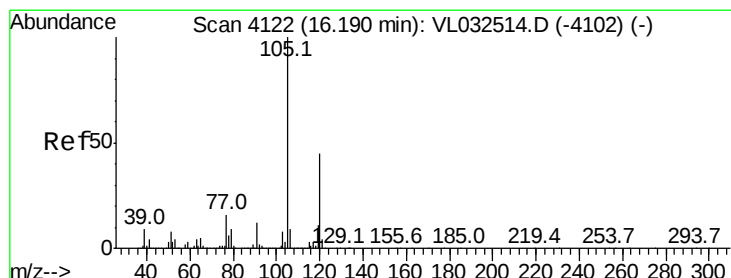
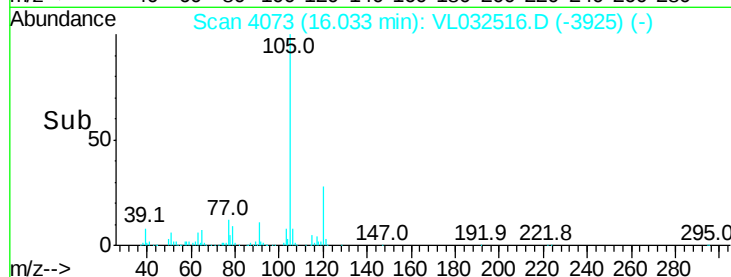
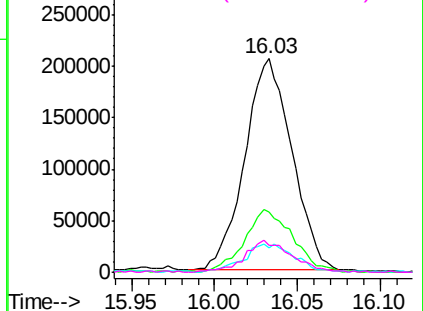


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.989 ppbv

RT: 16.19 min Scan# 4123

Delta R.T. -0.02 min

Lab File: VL032516.D

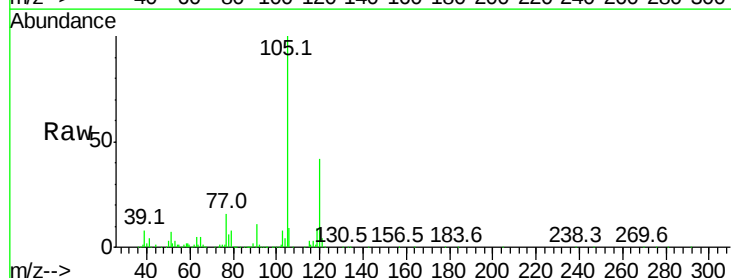
Acq: 24 Sep 2018 17:45

Tgt Ion:105 Resp: 404981

Ion Ratio Lower Upper

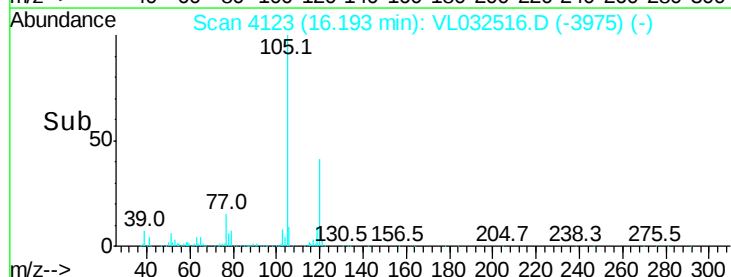
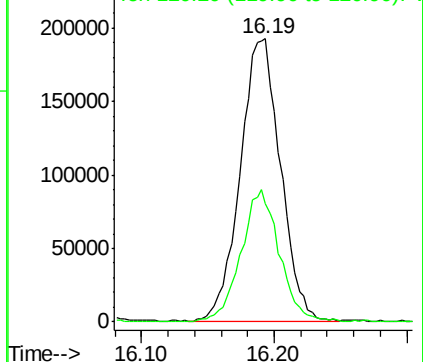
105 100

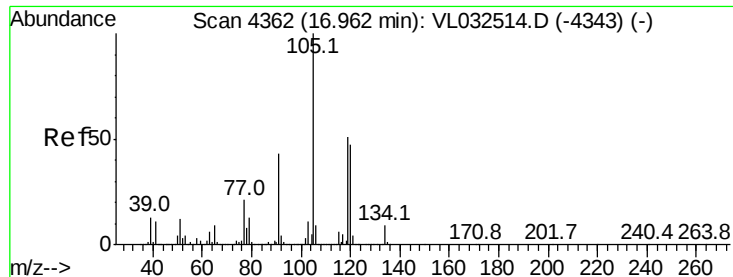
120 42.1 37.9 56.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

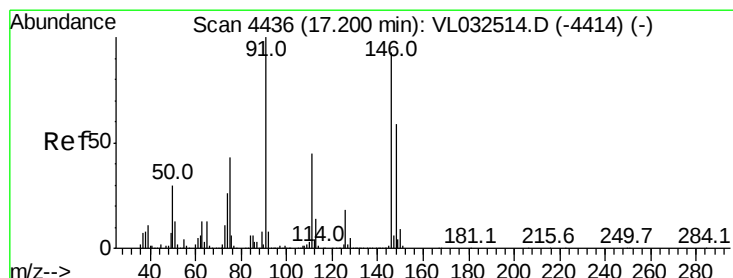
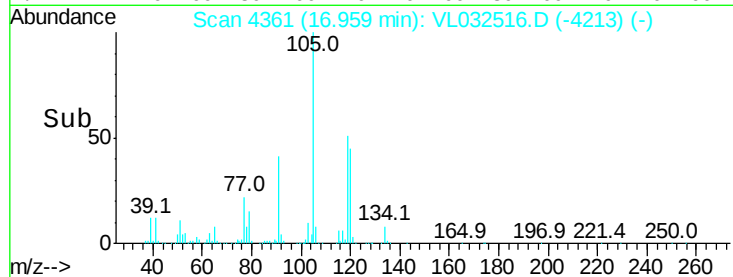
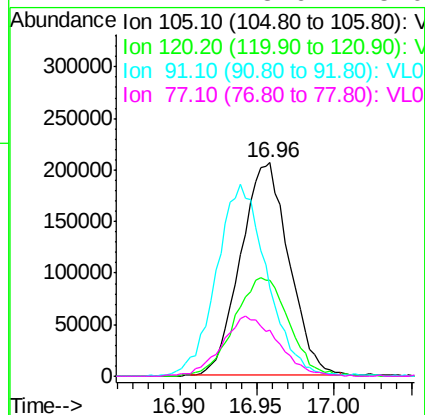
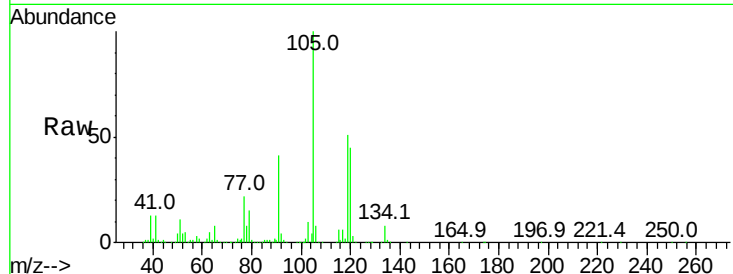




#74
 1,2,4-Trimethylbenzene
 Concen: 1.005 ppbv
 RT: 16.96 min Scan# 4361
 Delta R.T. -0.02 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

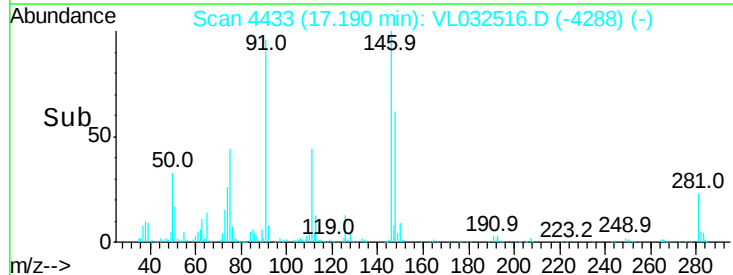
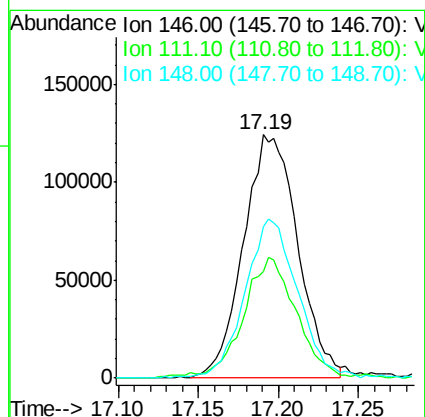
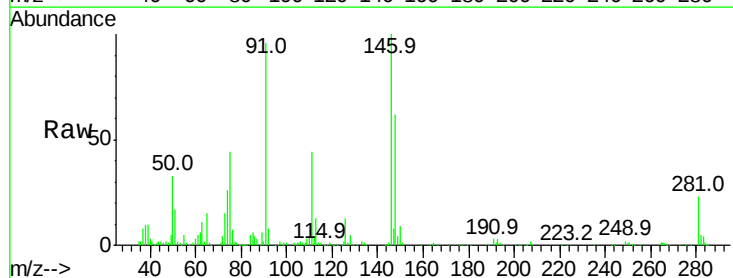
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

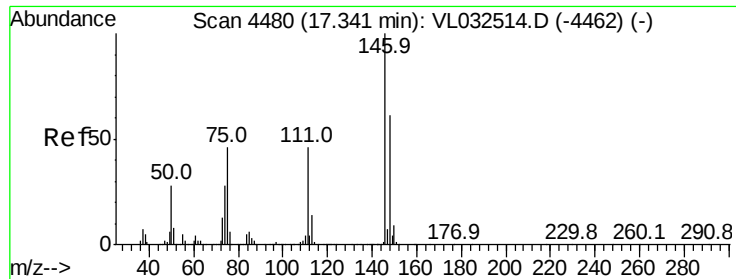
Tgt Ion:	105	Resp:	449862
Ion Ratio	Lower	Upper	
105	100		
120	44.6	37.8	56.8
91	40.8	41.4	62.0#
77	21.4	18.6	28.0



#75
 1,3-Dichlorobenzene
 Concen: 1.082 ppbv
 RT: 17.19 min Scan# 4433
 Delta R.T. -0.03 min
 Lab File: VL032516.D
 Acq: 24 Sep 2018 17:45

Tgt Ion:	146	Resp:	287263
Ion Ratio	Lower	Upper	
146	100		
111	49.6	24.5	73.5
148	64.3	32.0	96.2





#76

1,4-Dichlorobenzene

Concen: 1.011 ppbv

RT: 17.33 min Scan# 4478

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

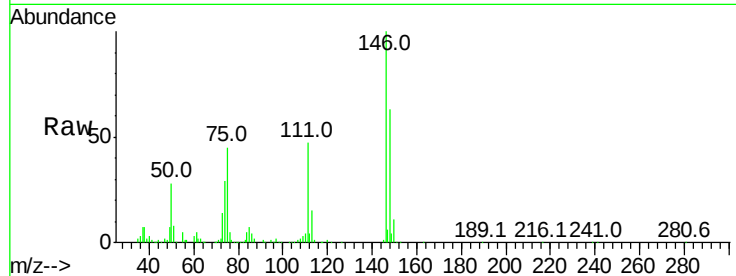
Tgt Ion:146 Resp: 249140

Ion Ratio Lower Upper

146 100

111 48.7 23.4 70.2

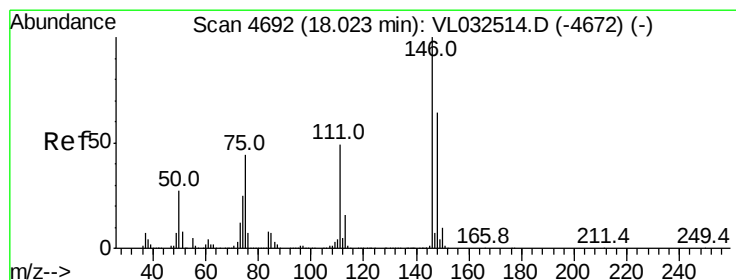
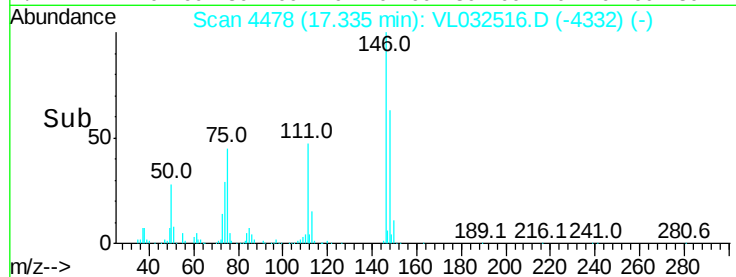
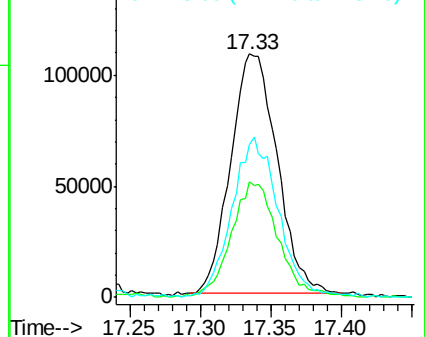
148 67.5 32.0 96.2



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



#77

1,2-Dichlorobenzene

Concen: 1.038 ppbv

RT: 18.02 min Scan# 4690

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

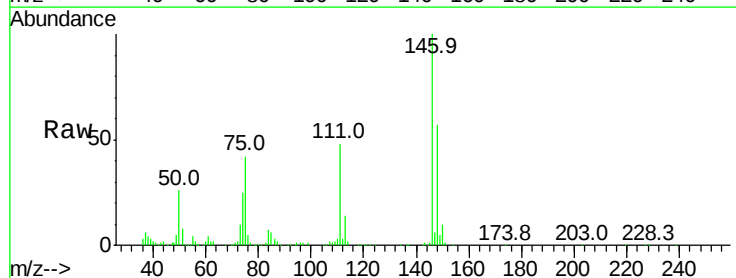
Tgt Ion:146 Resp: 266049

Ion Ratio Lower Upper

146 100

111 50.3 24.9 74.8

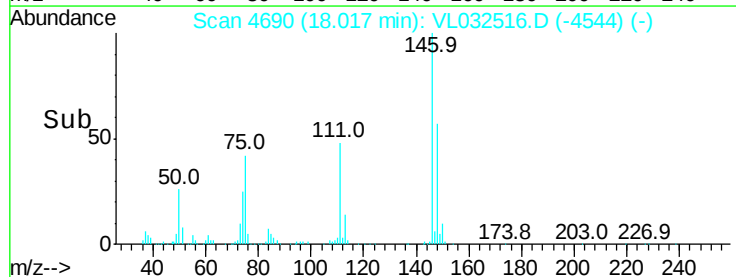
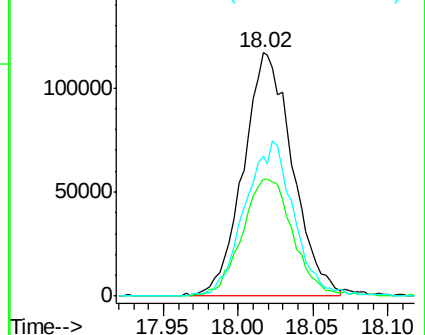
148 63.8 32.0 96.0

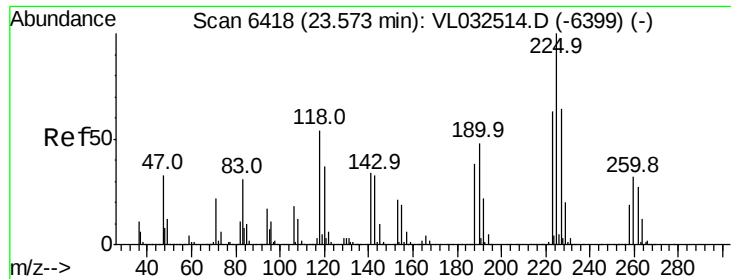


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.587 ppbv

RT: 23.57 min Scan# 6417

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

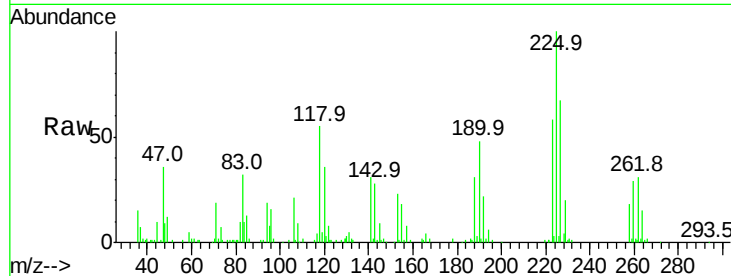
Tgt Ion:225 Resp: 56182

Ion Ratio Lower Upper

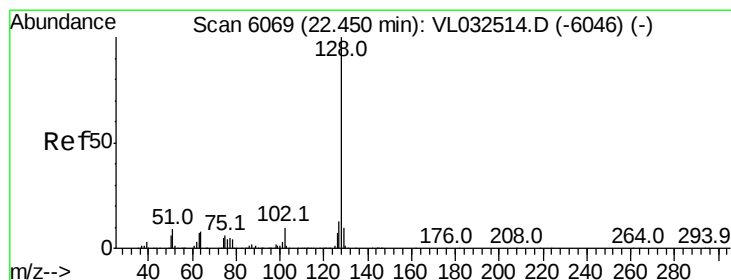
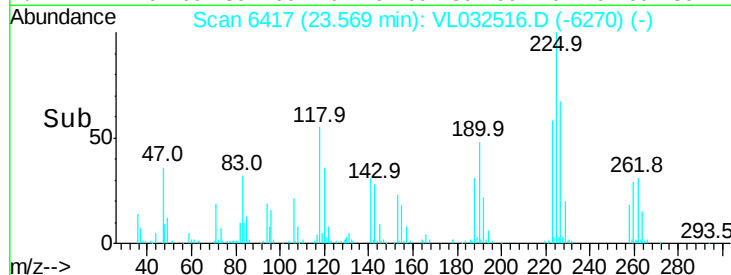
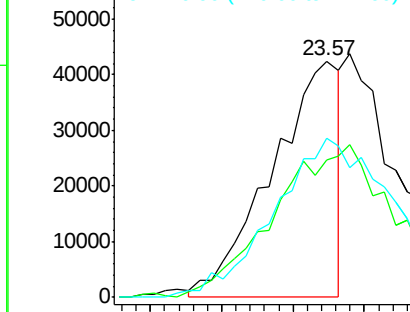
225 100

223 0.0 50.6 76.0#

227 119.4 51.2 76.8#



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.379 ppbv

RT: 22.45 min Scan# 6069

Delta R.T. -0.03 min

Lab File: VL032516.D

Acq: 24 Sep 2018 17:45

Tgt Ion:128 Resp: 137834

Ion Ratio Lower Upper

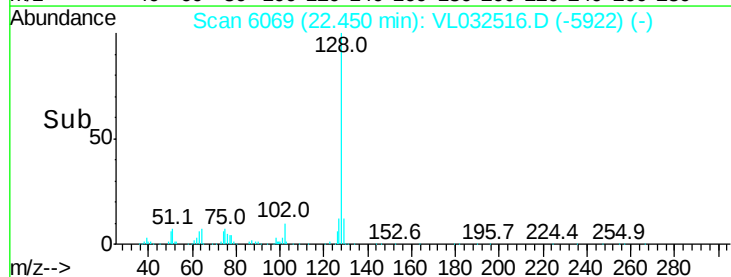
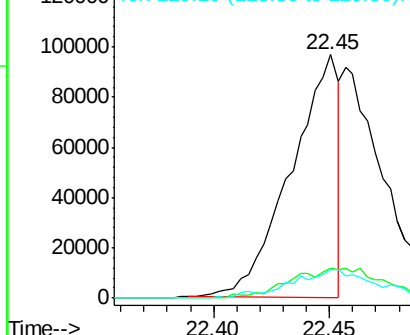
128 100

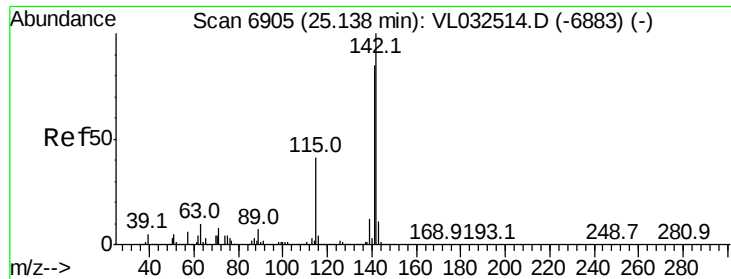
127 12.2 10.2 15.2

129 11.4 8.5 12.7



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

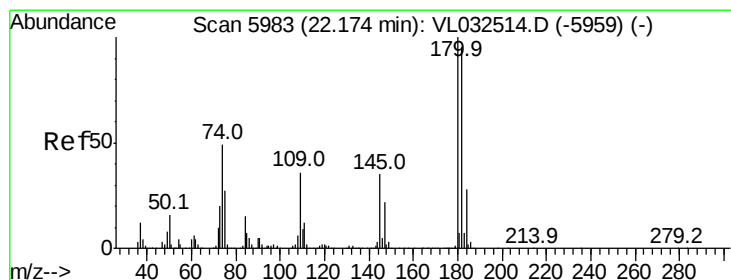
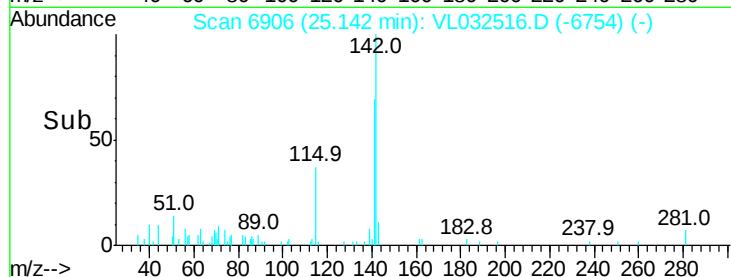
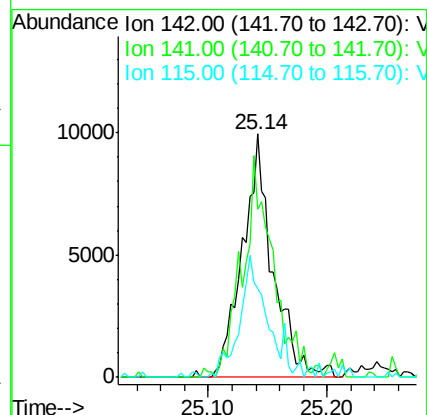
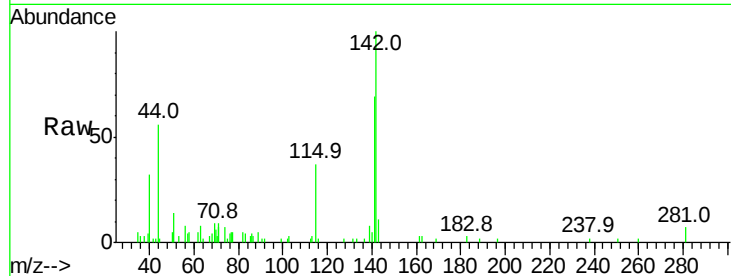




#80
Naphthalene, 2-methyl-
Concen: 0.182 ppbv
RT: 25.14 min Scan# 6906
Delta R.T. -0.01 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:142 Resp: 17631
Ion Ratio Lower Upper
142 100
141 92.3 67.0 100.6
115 45.9 31.3 46.9



#81
1,2,4-Trichlorobenzene
Concen: 0.327 ppbv
RT: 22.17 min Scan# 5981
Delta R.T. -0.04 min
Lab File: VL032516.D
Acq: 24 Sep 2018 17:45

Tgt Ion:180 Resp: 59980
Ion Ratio Lower Upper
180 100
182 0.0 76.1 114.1#
184 0.0 23.8 35.8#

