

Data File : VL033260.D
Acq On : 8 Mar 2019 15:18
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Mar 08 16:18:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030819AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 16:12:14 2019
QLast Update : Fri Mar 08 16:12:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1093678	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2440502	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2491285	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.57 95 2002964 10.60 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 106.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	19043	0.123	ppbv	95
3) Chlorodifluoromethane	3.01	51	11688	0.093	ppbv	95
4) Chloromethane	3.17	50	5385	0.084	ppbv #	84
5) Vinyl Chloride	3.29	62	5175	0.072	ppbv	92
6) Bromomethane	3.52	94	2658	0.064	ppbv	96
7) Chloroethane	3.60	64	1626	0.067	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	14789	0.097	ppbv	97
9) Propene	3.04	41	3442	0.062	ppbv #	39
10) Heptane	8.24	43	6238	0.041	ppbv #	27
12) 1,1,2-Trichlorotrifluoroet	4.55	101	8344	0.071	ppbv #	14
13) Ethanol	3.67	45	1391	0.083	ppbv #	1
14) Bromoethene	3.79	108	2825	0.057	ppbv #	69
15) Acetone	3.93	43	16420	0.117	ppbv	90
16) 1,3-Butadiene	3.36	39	2624	0.047	ppbv #	19
18) 1,1-Dichloroethene	4.36	96	1900	0.036	ppbv	89
19) Isopropyl Alcohol	4.06	45	8914	0.107	ppbv #	90
20) Methylene Chloride	4.41	84	6026	0.113	ppbv #	81
21) Allyl Chloride	4.48	41	7540	0.096	ppbv #	78
22) trans-1,2-Dichloroethene	4.96	96	4539	0.085	ppbv #	76
23) Vinyl Acetate	5.16	43	16080	0.077	ppbv #	87
24) 1,1-Dichloroethane	5.09	63	13836	0.093	ppbv #	89
25) Ethyl Acetate	5.78	43	23381	0.091	ppbv #	97
26) Hexane	5.78	57	11352	0.094	ppbv	91
28) Methyl tert-Butyl Ether	5.13	73	5129	0.031	ppbv #	54
29) Chloroform	5.84	83	17498	0.093	ppbv #	83
31) cis-1,2-Dichloroethene	5.64	61	4284	0.037	ppbv #	79
32) 1,1,1-Trichloroethane	6.62	97	8328	0.046	ppbv #	23
34) 2-Butanone	5.36	43	14048	0.083	ppbv	99
35) Carbon Tetrachloride	7.12	117	15530	0.084	ppbv	87
36) Benzene	7.00	78	11486	0.050	ppbv #	86
37) 1,2-Dichloroethane	6.41	62	12225	0.086	ppbv #	97
38) Trichloroethene	7.96	130	7273	0.084	ppbv #	67
39) 1,2-Dichloropropane	7.29	63	672847	7.524	ppbv #	23
44) 2,2,4-Trimethylpentane	7.99	57	14100	0.035	ppbv #	16
47) 1,1,2-Trichloroethane	9.61	97	7207	0.075	ppbv #	73
48) Dibromochloromethane	10.45	129	8727	0.056	ppbv	75
52) Tetrachloroethene	11.36	164	3108	0.036	ppbv #	68
53) Toluene	9.94	91	17887	0.068	ppbv	100
54) 1,2-Dibromoethane	10.75	107	6079	0.042	ppbv	84
56) 1,1,1,2-Tetrachloroethane	12.27	131	6281	0.058	ppbv #	9
57) Chlorobenzene	12.30	112	12413	0.064	ppbv #	87

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030819\
Quantitation Report (Not Reviewed)

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ClientSampleId :
VSTDIC0.1

Quant Time: Mar 08 16:18:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030819AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 16:12:14 2019
QLast Update : Fri Mar 08 16:12:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Ethyl Benzene	12.86	91	15074	0.044	ppbv	96
59) m/p-Xylene	13.14	91	11933	0.041	ppbv #	32
63) 1,1,2,2-Tetrachloroethane	13.83	83	8663	0.043	ppbv #	12
67) sec-Butylbenzene	17.45	105	27411	0.058	ppbv	94
71) 2-Chlorotoluene	15.61	91	21125	0.071	ppbv	94
76) 1,4-Dichlorobenzene	17.30	146	6966	0.039	ppbv #	14
78) Hexachloro-1,3-Butadiene	23.54	225	4308	0.035	ppbv #	18

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

Data File : VL033260.D

Acq On : 8 Mar 2019 15:18

Operator : SY/AP

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Sample      : VSTDICC0.1
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Misc : 400ml/MSVOA L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCO.1

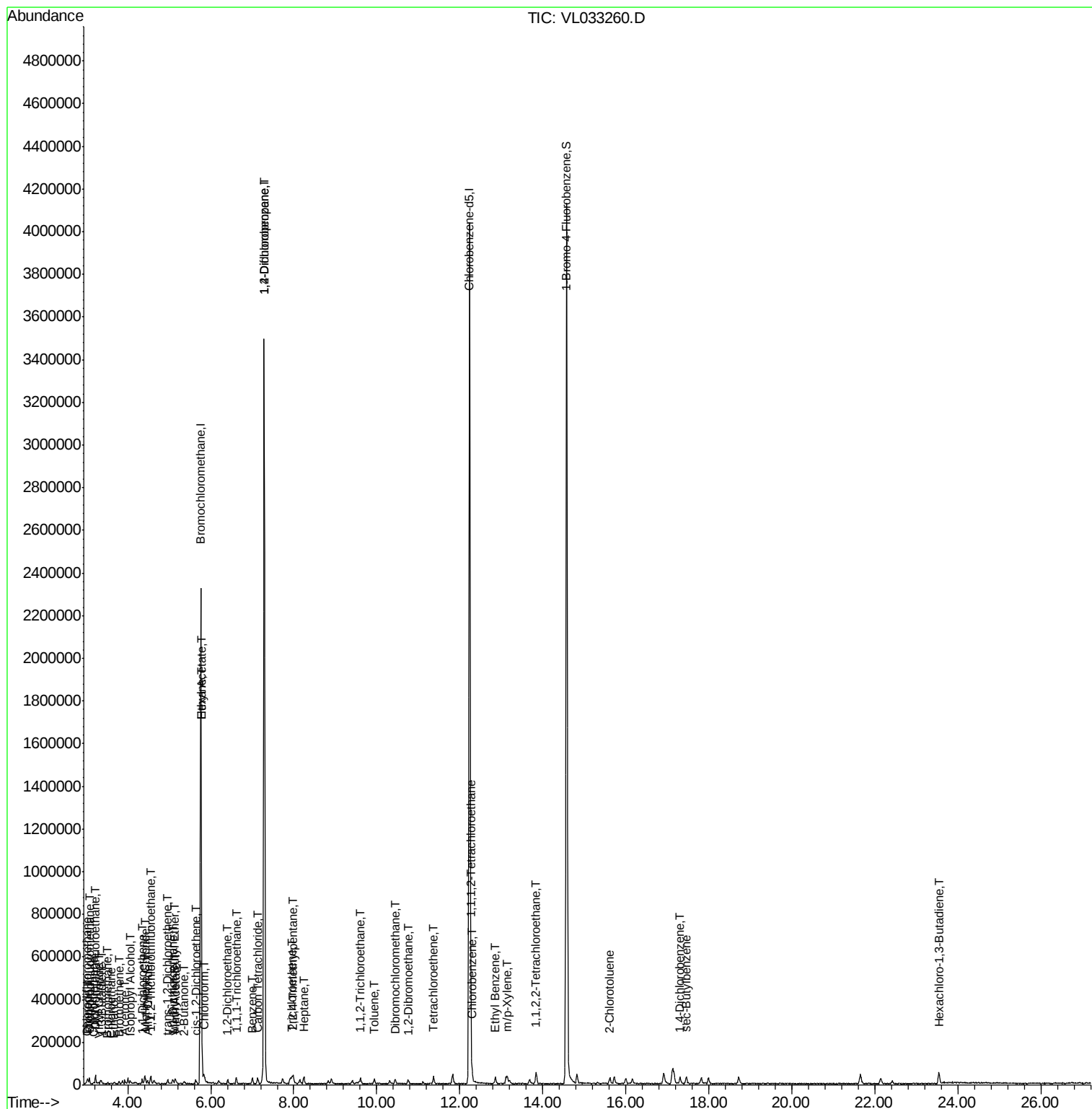
Quant Time: Mar 08 16:18:10 2019

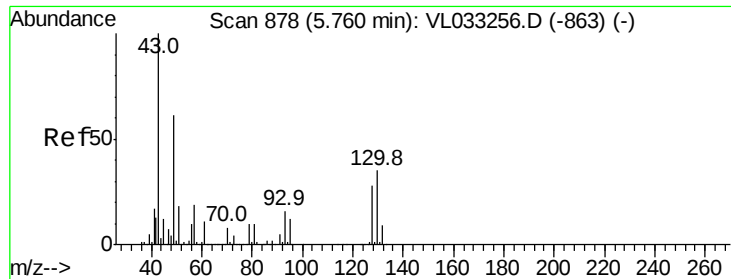
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL030819AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Mar 08 16:12:14 2019

QLast Update : Fri Mar 08 16:12:14 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

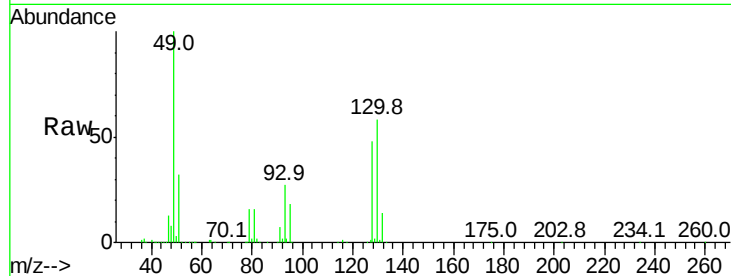
Tgt Ion: 49 Resp: 1093678

Ion Ratio Lower Upper

49 100

128 45.9 22.5 67.5

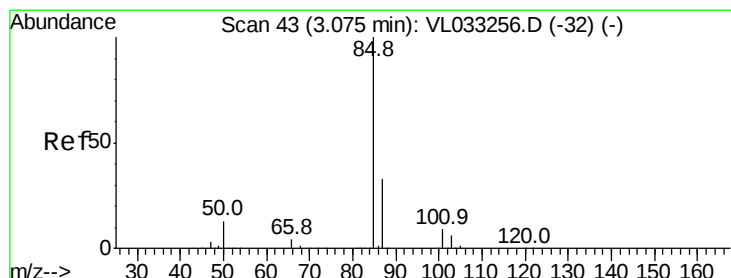
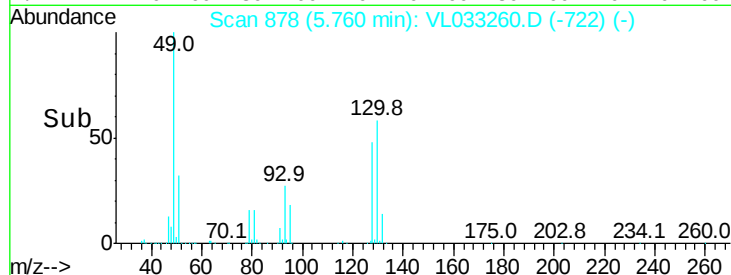
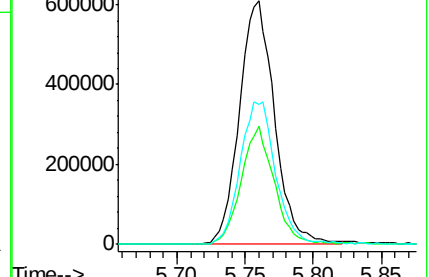
130 59.5 29.1 87.4



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: 0.123 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033260.D

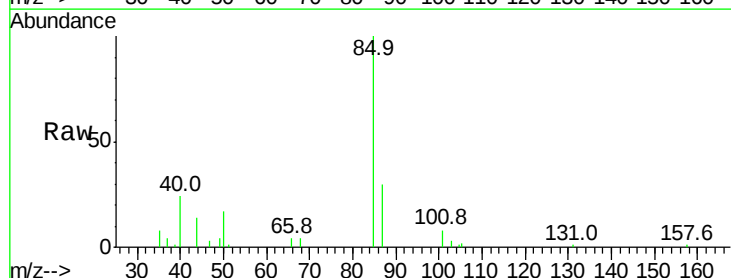
Acq: 8 Mar 2019 15:18

Tgt Ion: 85 Resp: 19043

Ion Ratio Lower Upper

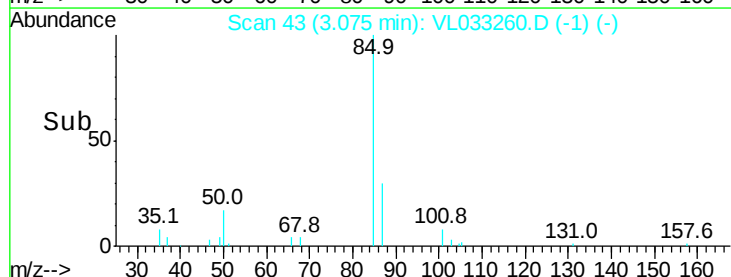
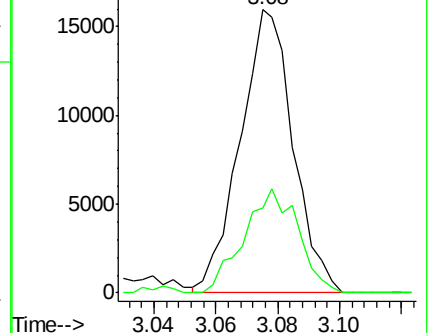
85 100

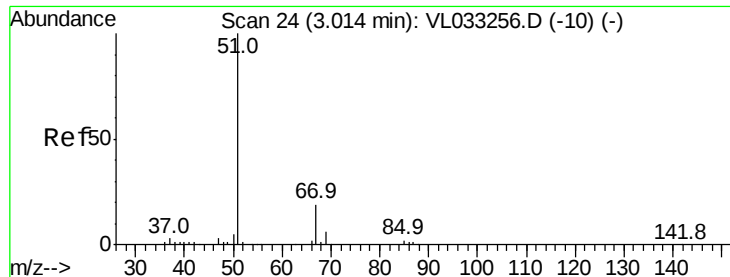
87 30.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.093 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

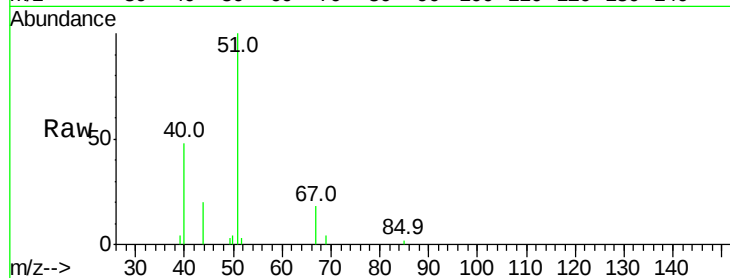
VSTDIC0.1

Tgt Ion: 51 Resp: 11688

Ion Ratio Lower Upper

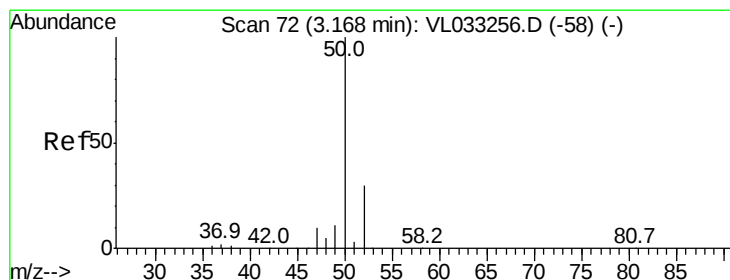
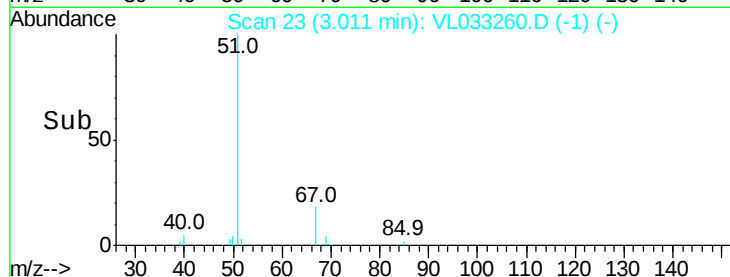
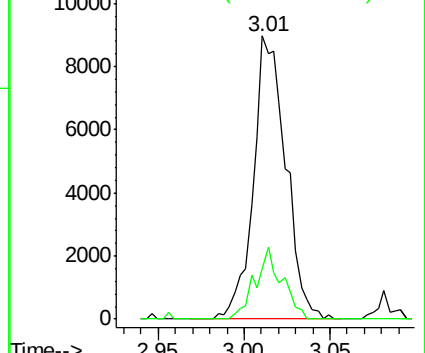
51 100

67 21.0 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.084 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL033260.D

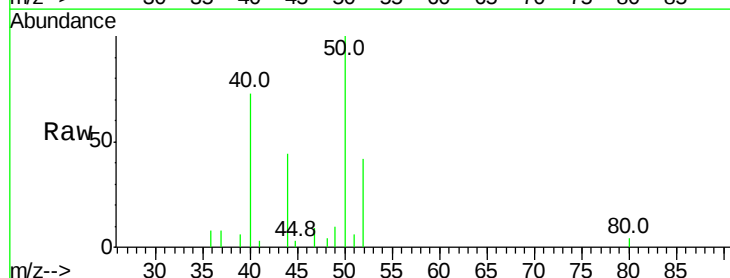
Acq: 8 Mar 2019 15:18

Tgt Ion: 50 Resp: 5385

Ion Ratio Lower Upper

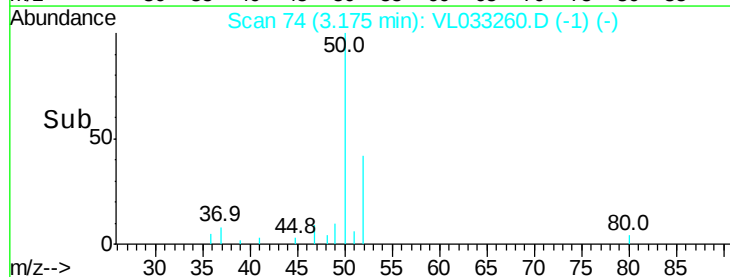
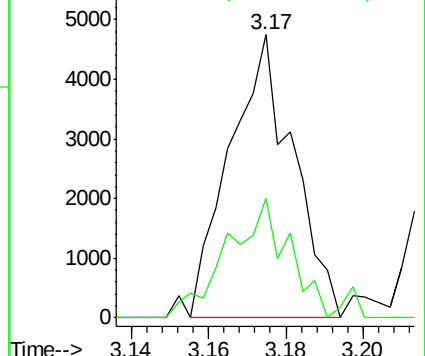
50 100

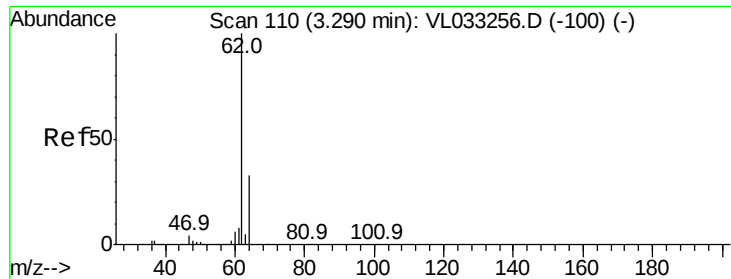
52 38.8 24.2 36.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.072 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

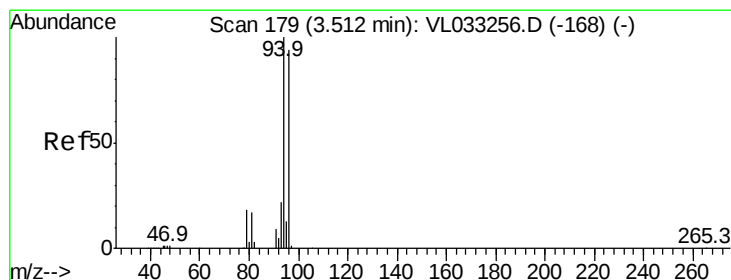
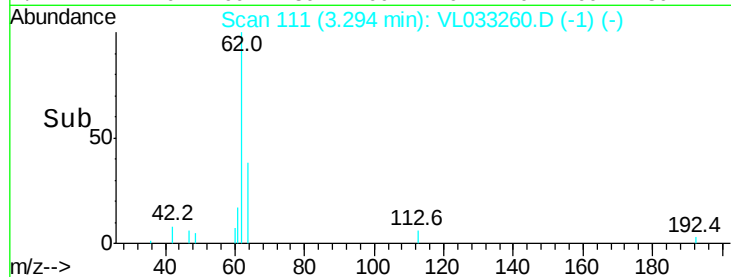
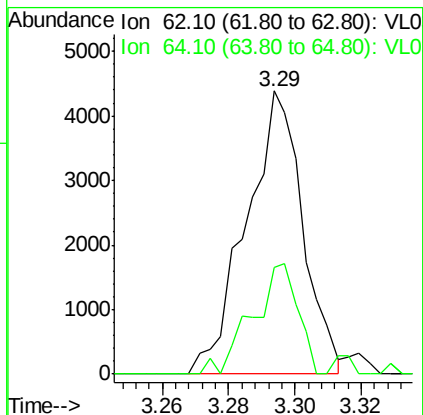
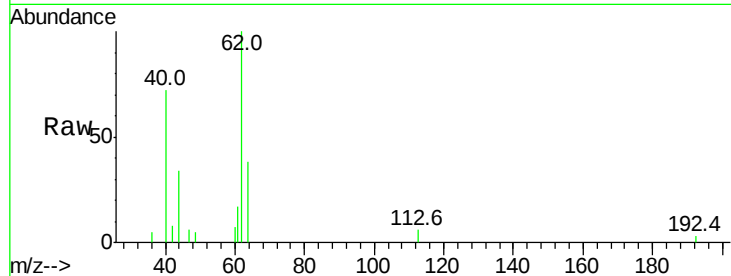
VSTDIC0.1

Tgt Ion: 62 Resp: 5175

Ion Ratio Lower Upper

62 100

64 37.7 26.4 39.6



#6

Bromomethane

Concen: 0.064 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033260.D

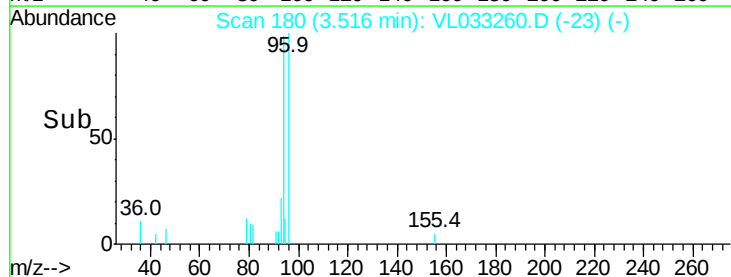
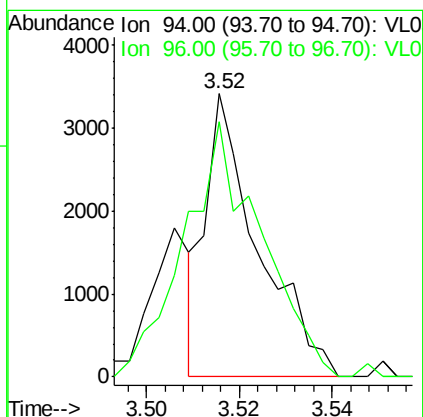
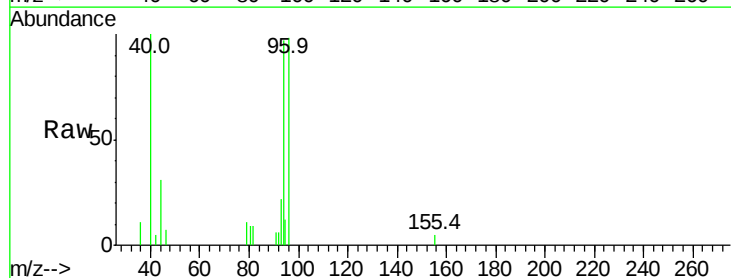
Acq: 8 Mar 2019 15:18

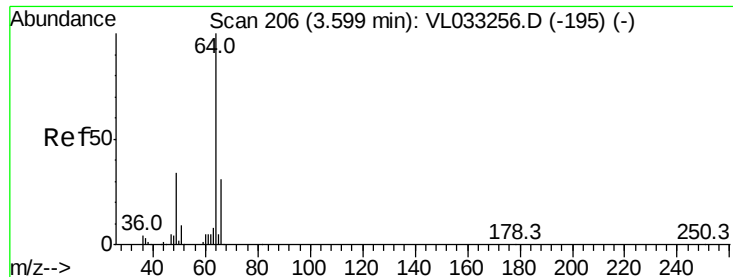
Tgt Ion: 94 Resp: 2658

Ion Ratio Lower Upper

94 100

96 90.4 75.3 112.9





#7

Chloroethane

Concen: 0.067 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

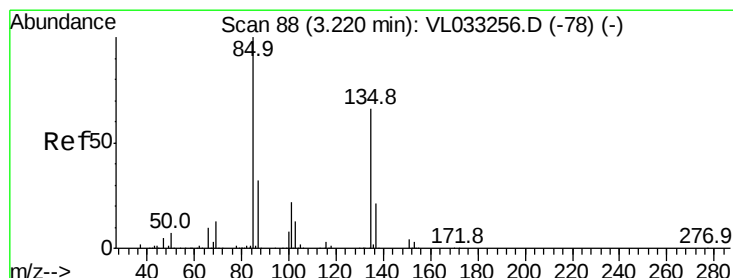
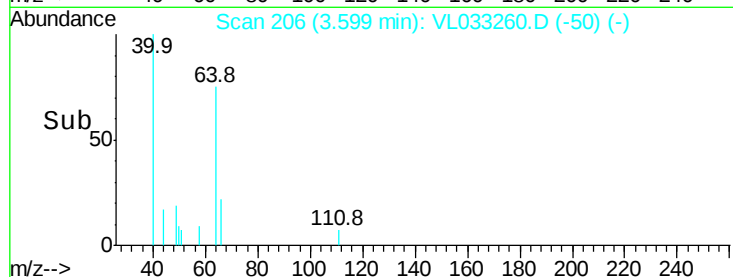
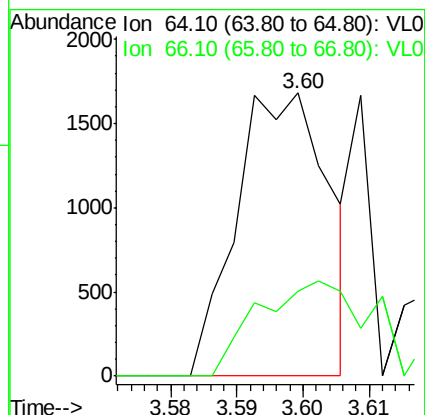
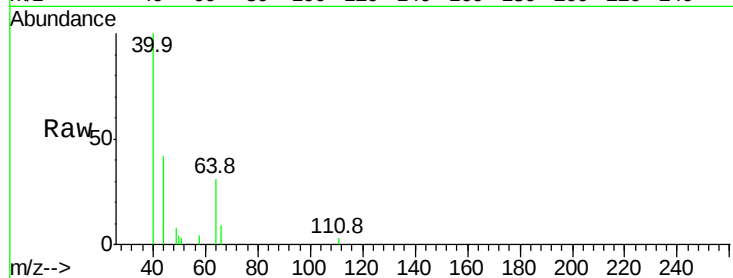
VSTDIC0.1

Tgt Ion: 64 Resp: 1626

Ion Ratio Lower Upper

64 100

66 30.1 25.2 37.8



#8

Dichlorotetrafluoroethane

Concen: 0.097 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033260.D

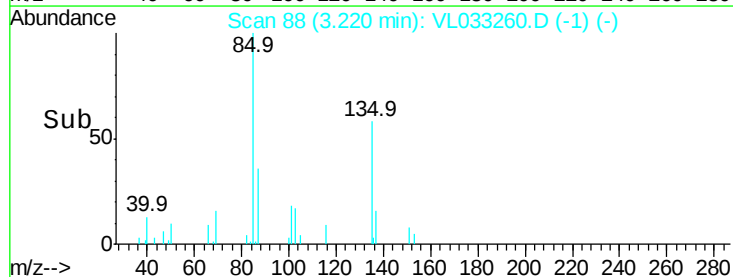
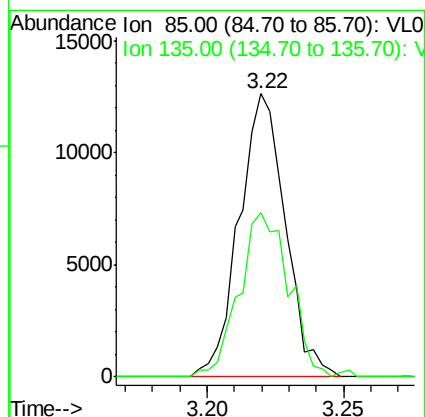
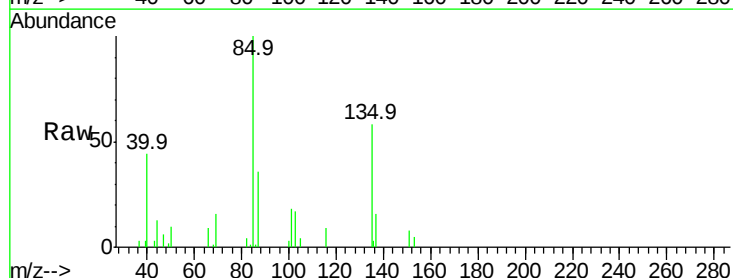
Acq: 8 Mar 2019 15:18

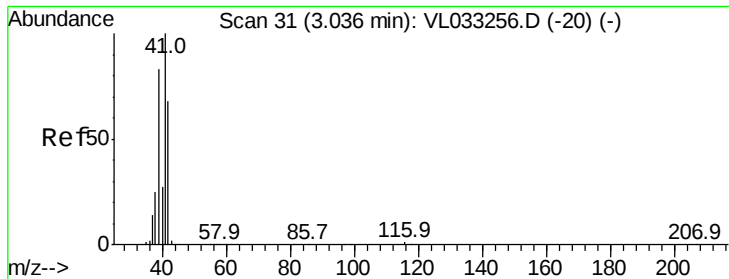
Tgt Ion: 85 Resp: 14789

Ion Ratio Lower Upper

85 100

135 63.2 52.3 78.5





#9

Propene

Concen: 0.062 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

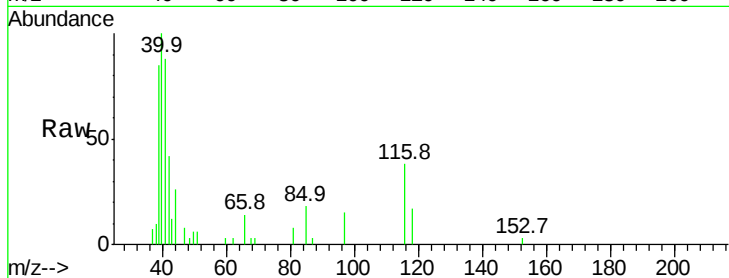
VSTDIC0.1

Tgt Ion: 41 Resp: 3442

Ion Ratio Lower Upper

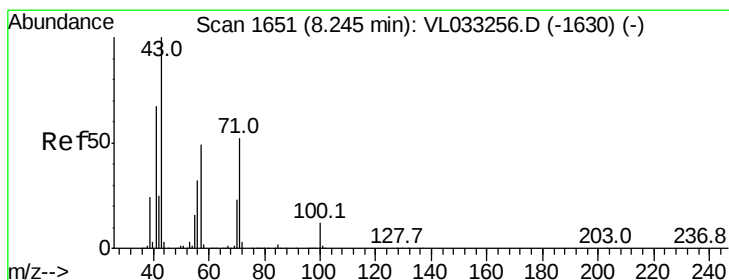
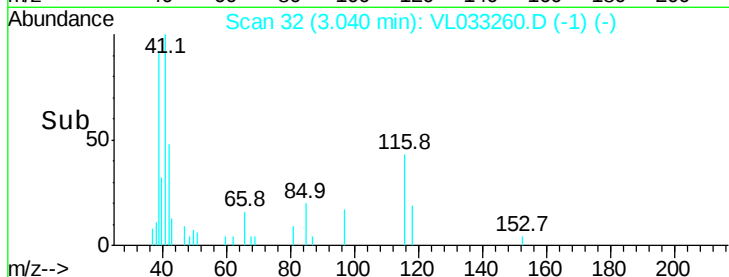
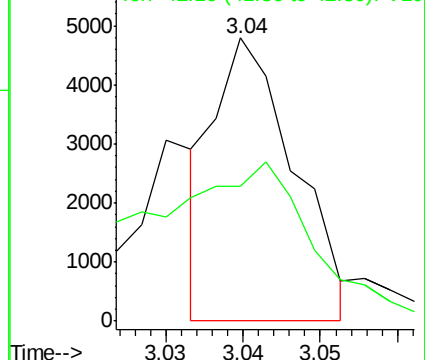
41 100

42 118.8 55.2 82.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.041 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033260.D

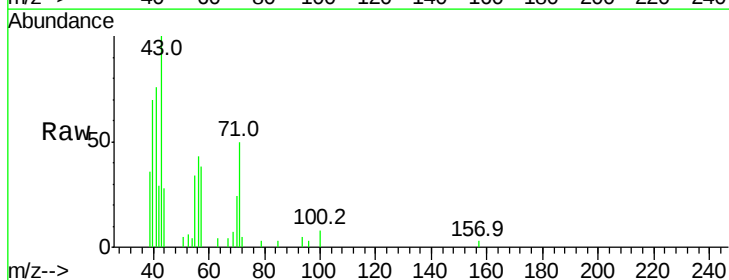
Acq: 8 Mar 2019 15:18

Tgt Ion: 43 Resp: 6238

Ion Ratio Lower Upper

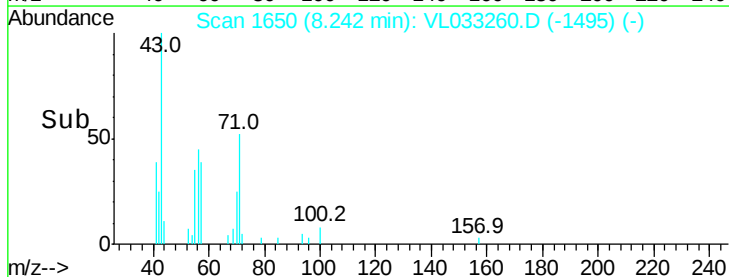
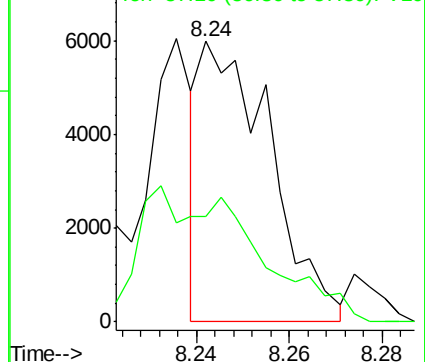
43 100

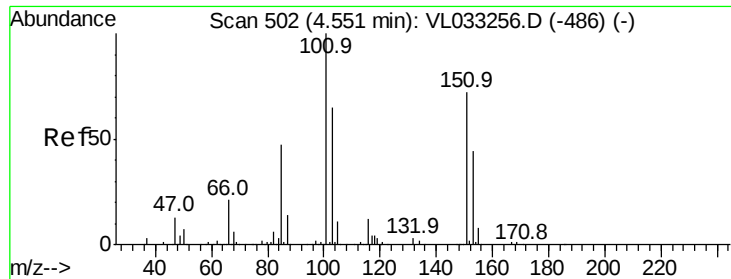
57 0.0 40.0 60.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.071 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

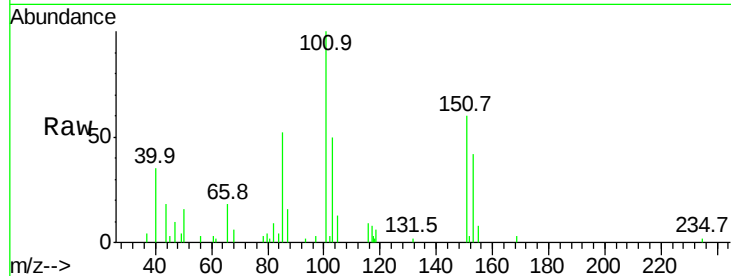
VSTDIC0.1

Tgt Ion:101 Resp: 8344

Ion Ratio Lower Upper

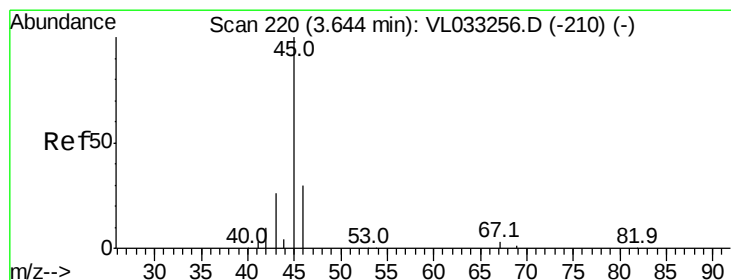
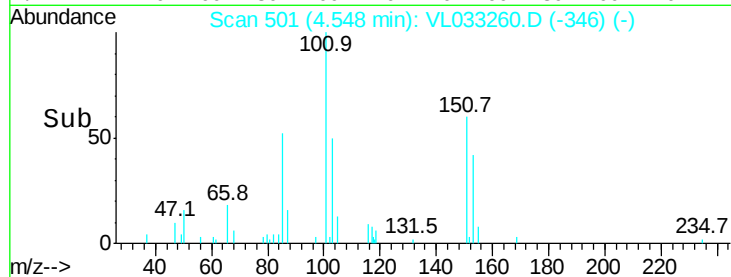
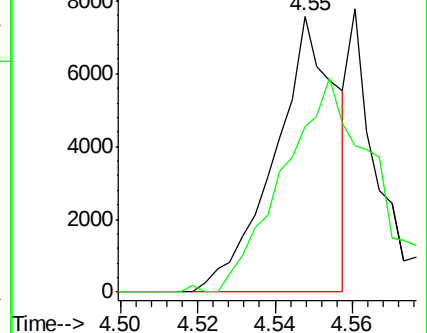
101 100

151 0.0 57.2 85.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.083 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.03 min

Lab File: VL033260.D

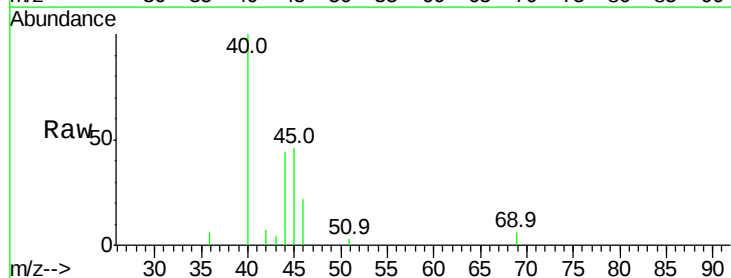
Acq: 8 Mar 2019 15:18

Tgt Ion: 45 Resp: 1391

Ion Ratio Lower Upper

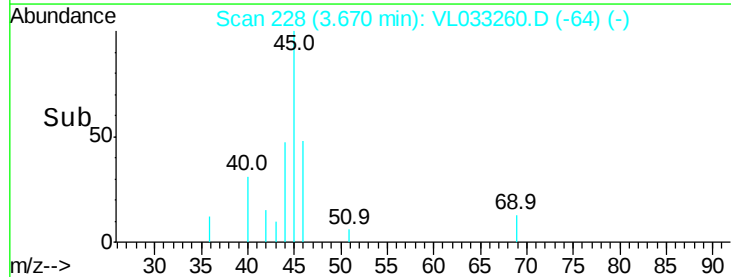
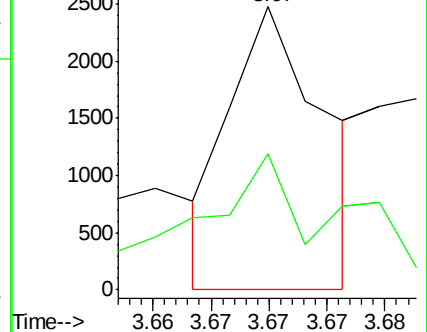
45 100

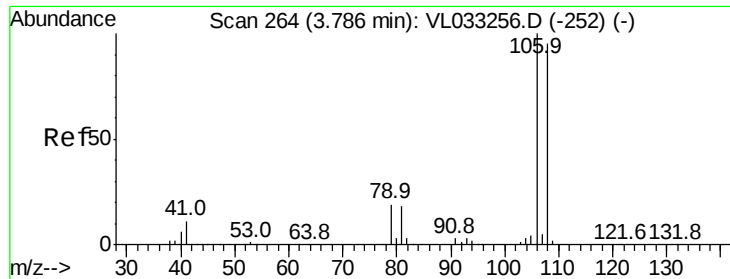
46 100.6 14.9 59.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.057 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

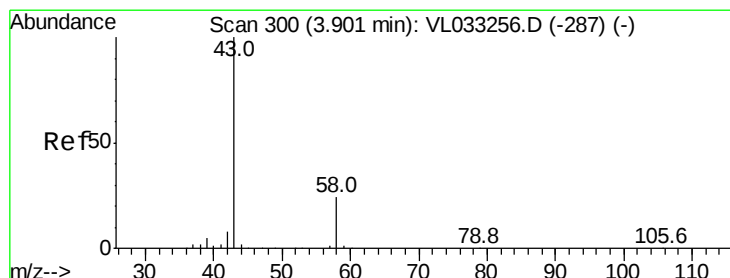
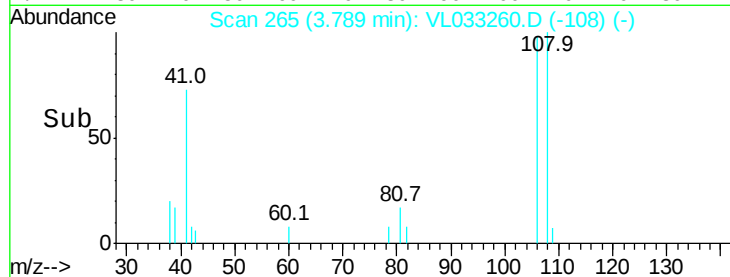
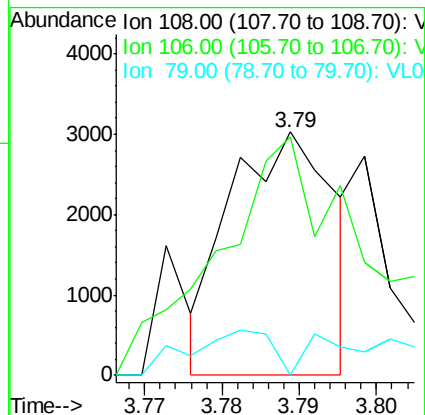
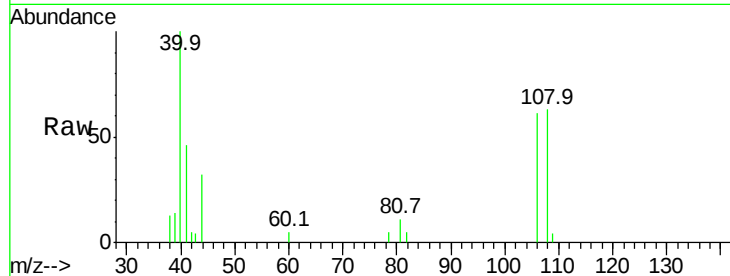
Tgt Ion: 108 Resp: 2825

Ion Ratio Lower Upper

108 100

106 138.3 86.9 130.3#

79 0.0 15.8 23.6#



#15

Acetone

Concen: 0.117 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.03 min

Lab File: VL033260.D

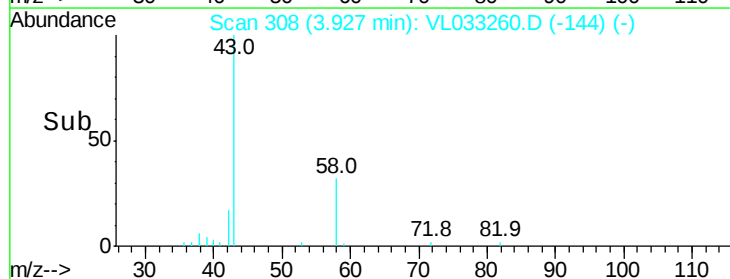
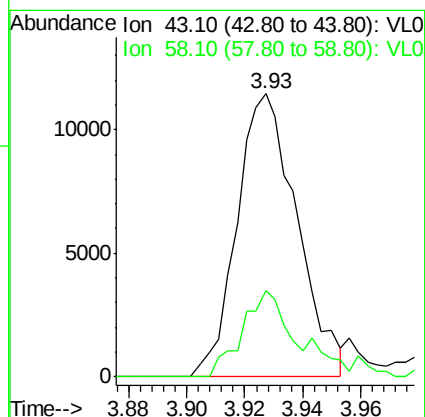
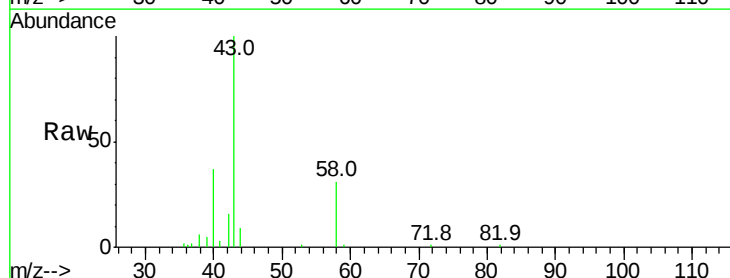
Acq: 8 Mar 2019 15:18

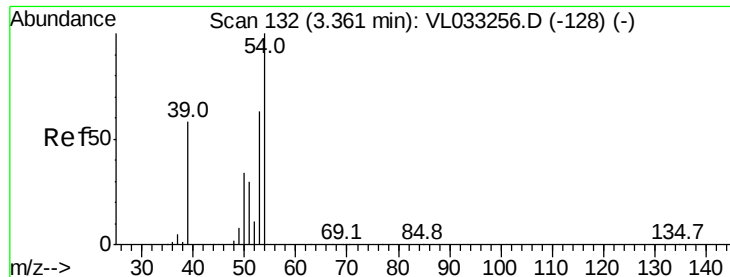
Tgt Ion: 43 Resp: 16420

Ion Ratio Lower Upper

43 100

58 30.0 20.2 30.2

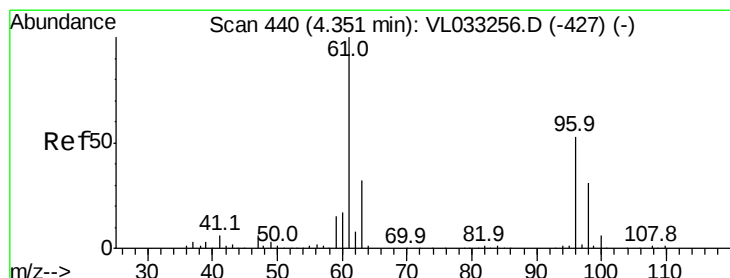
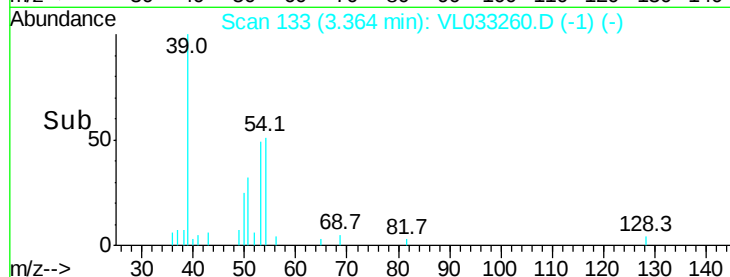
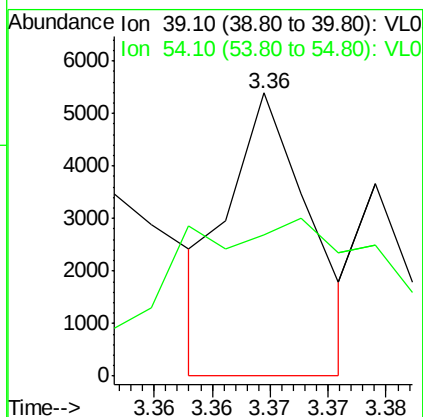
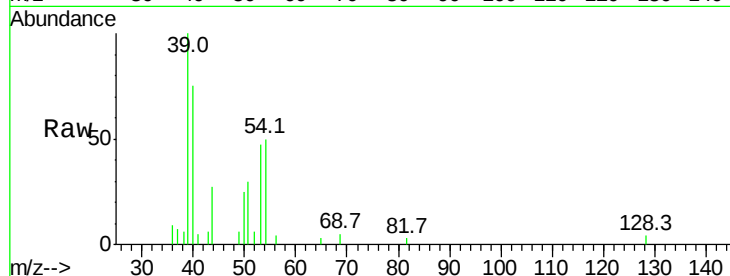




#16
 1,3-Butadiene
 Concen: 0.047 ppbv
 RT: 3.36 min Scan# 133
 Delta R.T. 0.00 min
 Lab File: VL033260.D
 Acq: 8 Mar 2019 15:18

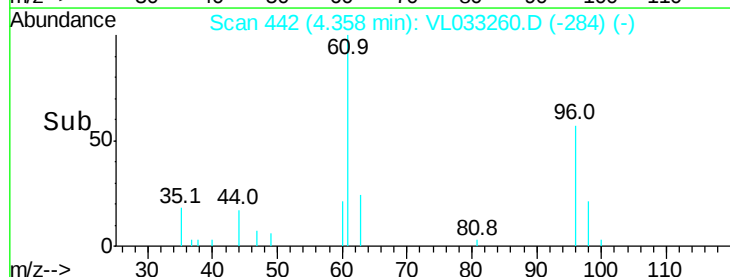
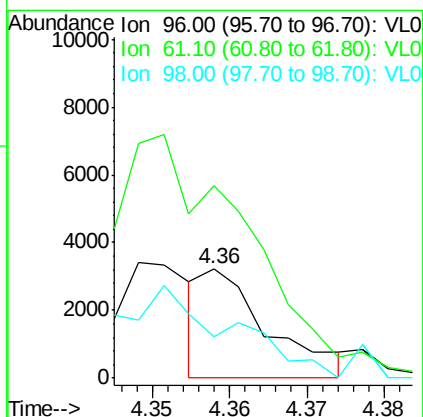
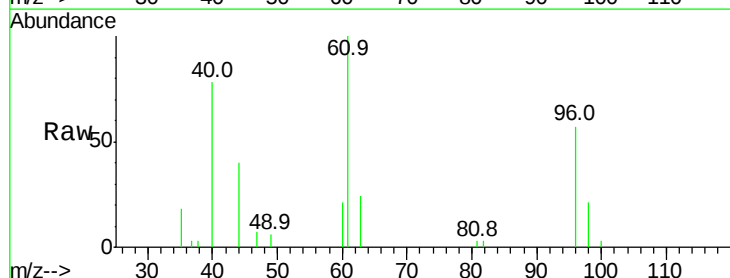
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

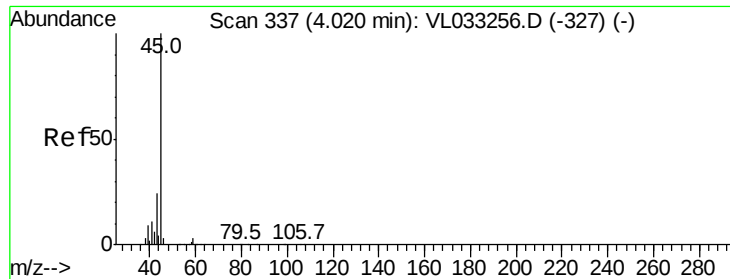
Tgt Ion: 39 Resp: 2624
 Ion Ratio Lower Upper
 39 100
 54 160.6 68.6 103.0#



#18
 1,1-Dichloroethene
 Concen: 0.036 ppbv
 RT: 4.36 min Scan# 442
 Delta R.T. 0.01 min
 Lab File: VL033260.D
 Acq: 8 Mar 2019 15:18

Tgt Ion: 96 Resp: 1900
 Ion Ratio Lower Upper
 96 100
 61 204.1 150.6 226.0
 98 49.2 47.0 70.4





#19

Isopropyl Alcohol

Concen: 0.107 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.04 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

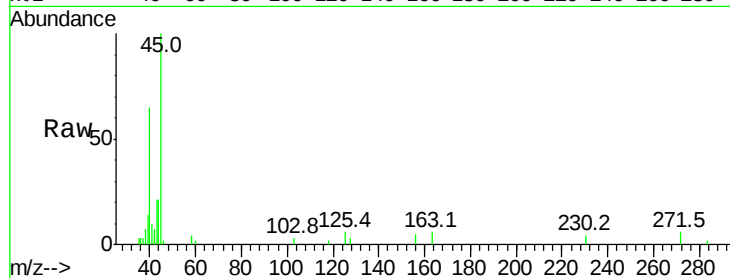
VSTDIC0.1

Tgt Ion: 45 Resp: 8914

Ion Ratio Lower Upper

45 100

58 5.4 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

8000

6000

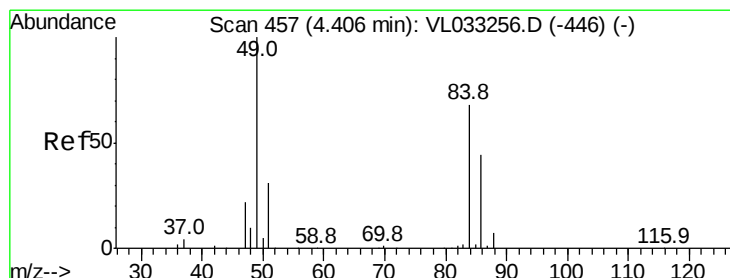
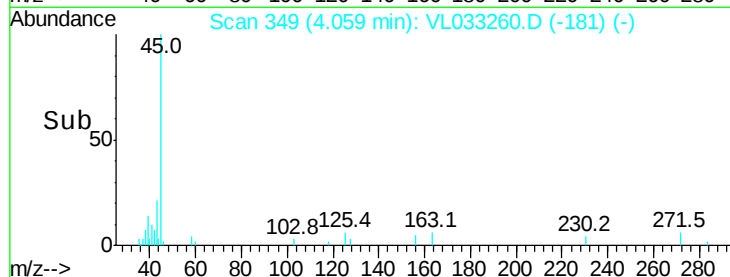
4000

2000

0

4.02 4.04 4.06 4.08

Time-->



#20

Methylene Chloride

Concen: 0.113 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Tgt Ion: 84 Resp: 6026

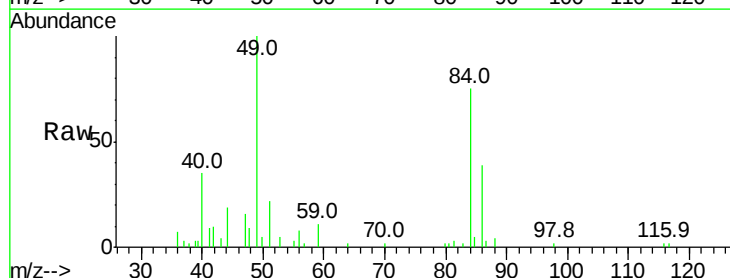
Ion Ratio Lower Upper

84 100

49 125.5 117.8 176.6

51 27.1 36.9 55.3#

86 52.0 51.7 77.5



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

15000

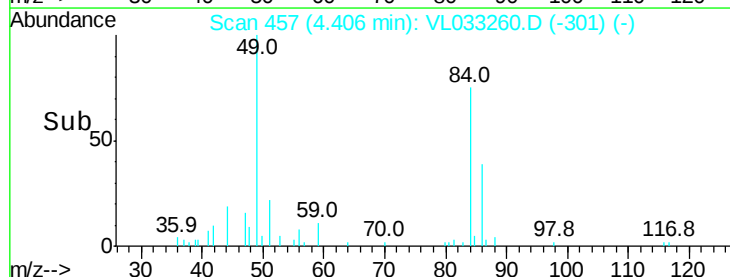
10000

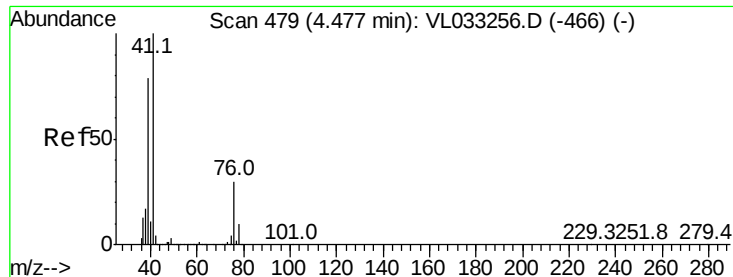
5000

0

4.38 4.40 4.42

Time-->





#21

Allyl Chloride

Concen: 0.096 ppbv

RT: 4.48 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

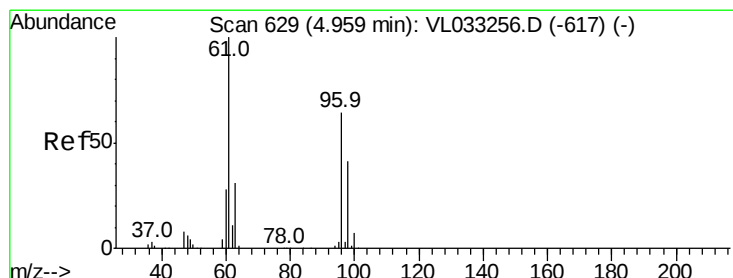
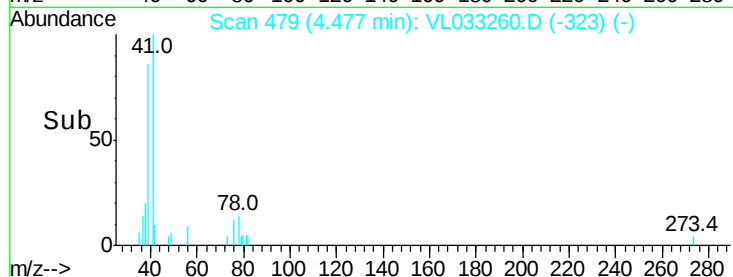
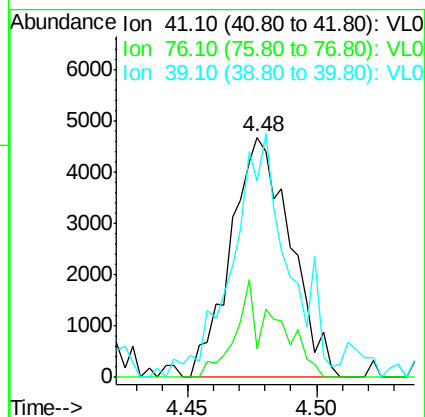
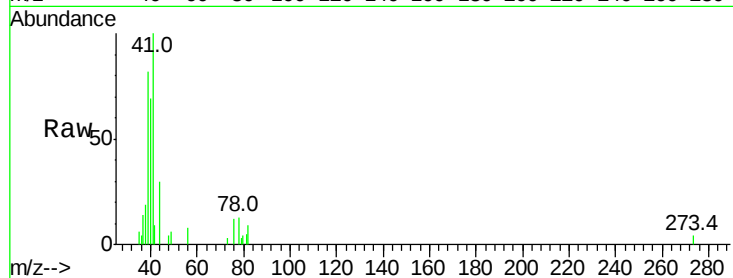
Tgt Ion: 41 Resp: 7540

Ion Ratio Lower Upper

41 100

76 28.3 24.5 36.7

39 107.7 65.3 97.9#



#22

trans-1,2-Dichloroethene

Concen: 0.085 ppbv

RT: 4.96 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

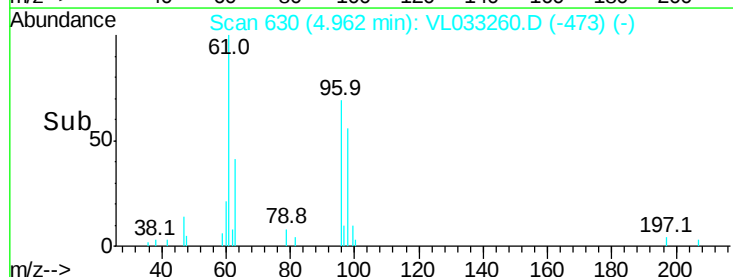
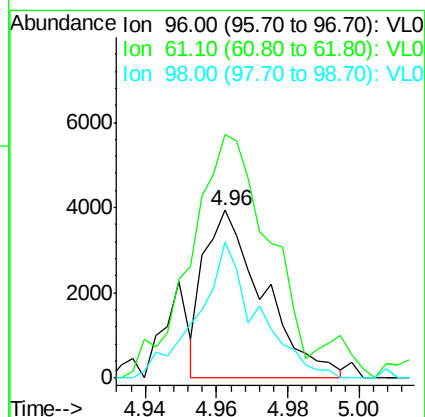
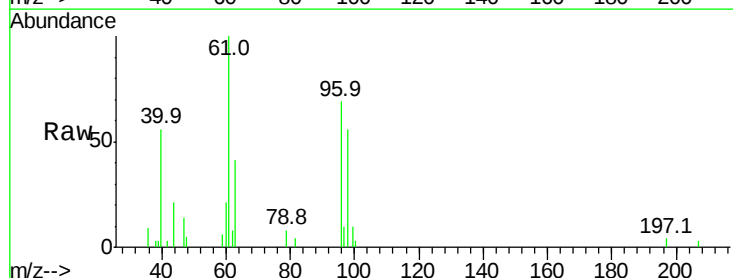
Tgt Ion: 96 Resp: 4539

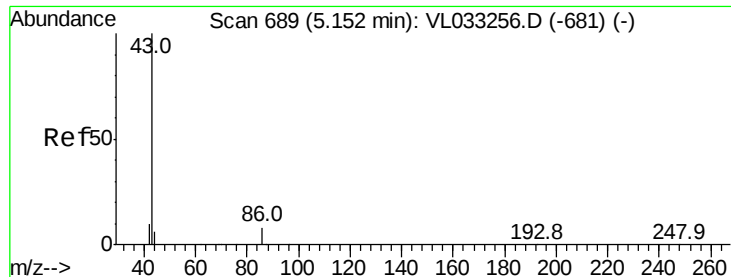
Ion Ratio Lower Upper

96 100

61 125.8 125.7 188.5

98 85.3 52.1 78.1#





#23

Vinyl Acetate

Concen: 0.077 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.01 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 16080

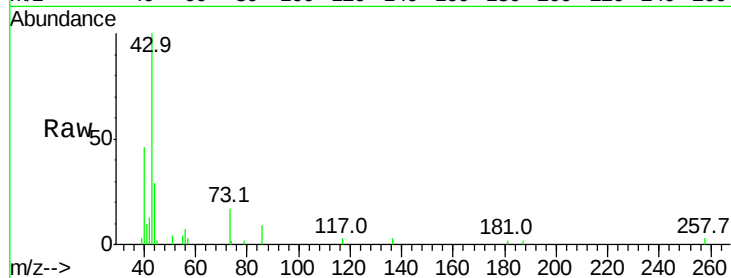
Ion Ratio Lower Upper

43 100

86 9.7 5.6 8.4#

42 11.6 8.1 12.1

44 17.5 4.3 6.5#

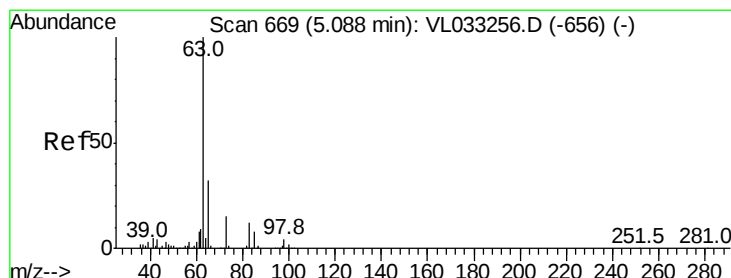
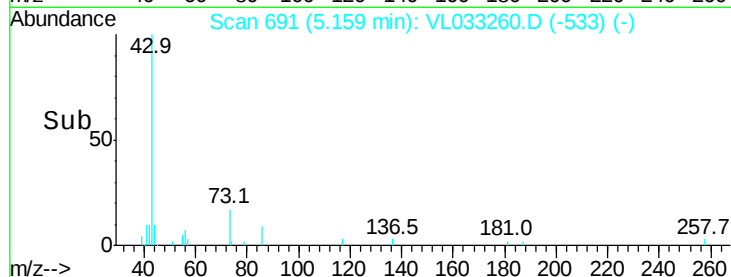
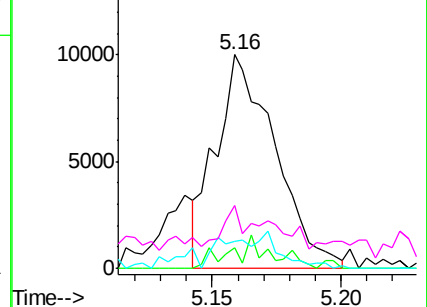


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.093 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

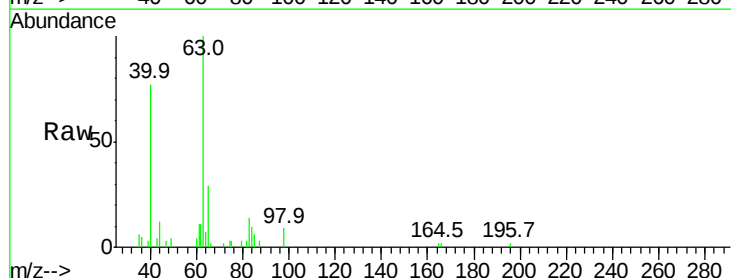
Tgt Ion: 63 Resp: 13836

Ion Ratio Lower Upper

63 100

98 8.6 2.1 6.2#

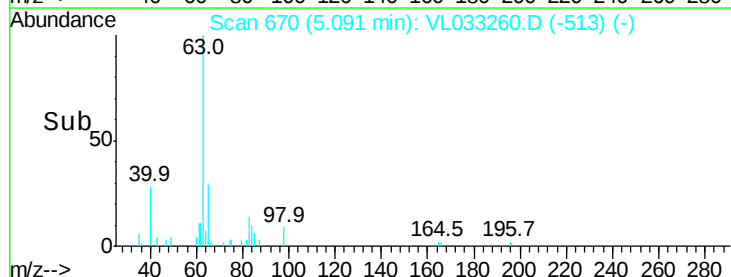
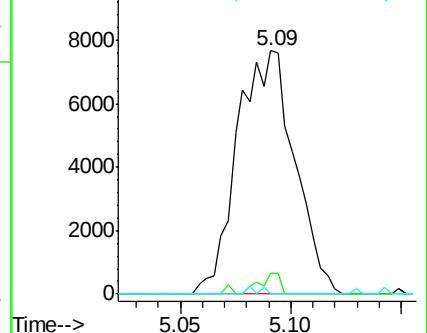
100 0.0 1.3 3.8#

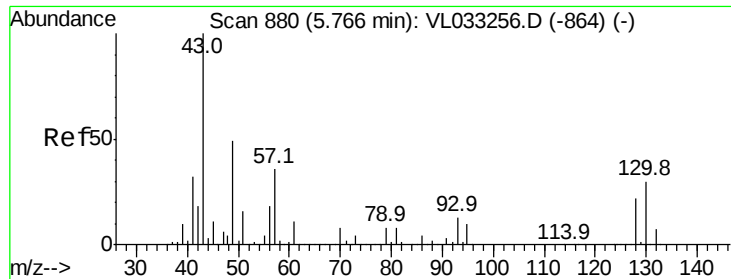


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

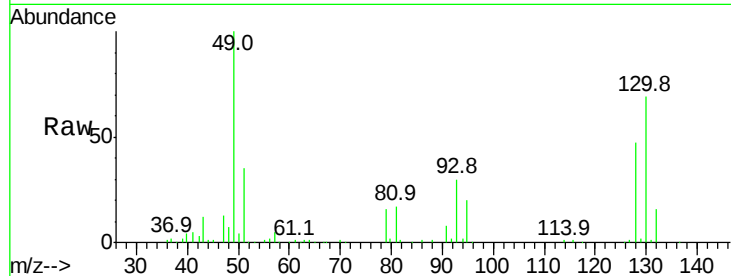




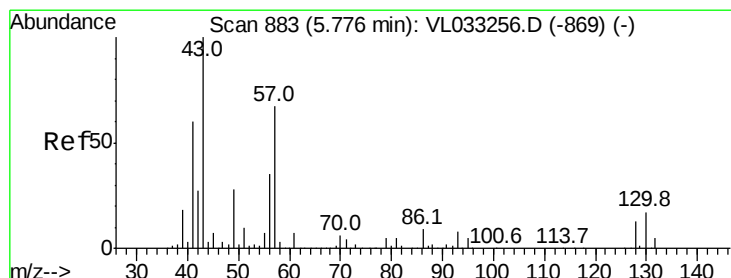
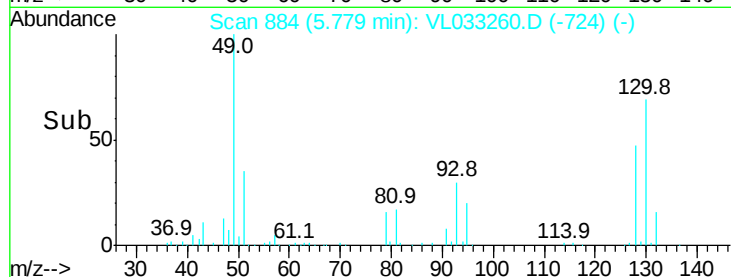
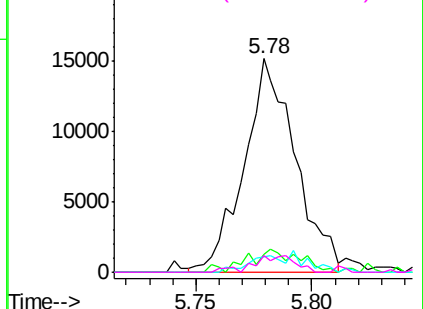
#25
Ethyl Acetate
Concen: 0.091 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033260.D
Acq: 8 Mar 2019 15:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion:	43	Resp:	23381
Ion	Ratio	Lower	Upper
43	100		
45	12.6	7.8	11.8#
61	9.2	7.4	11.0
70	6.9	5.4	8.2

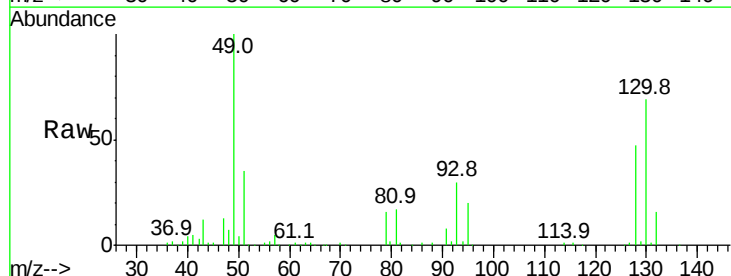


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

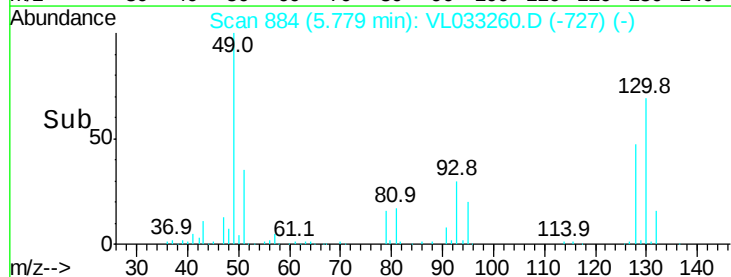
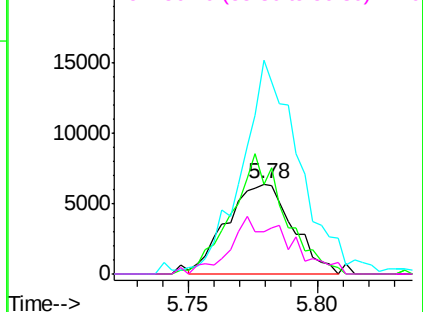


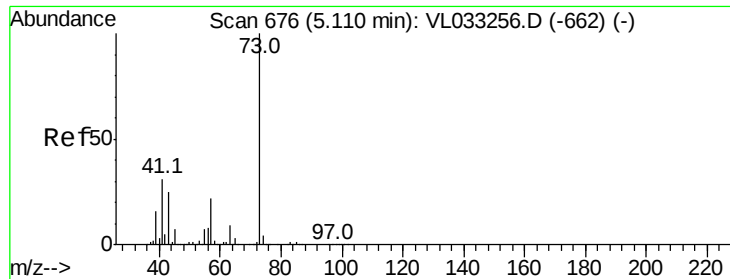
#26
Hexane
Concen: 0.094 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033260.D
Acq: 8 Mar 2019 15:18

Tgt Ion:	57	Resp:	11352
Ion	Ratio	Lower	Upper
57	100		
41	107.4	72.2	108.4
43	214.5	179.0	268.4
56	57.4	41.8	62.8



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

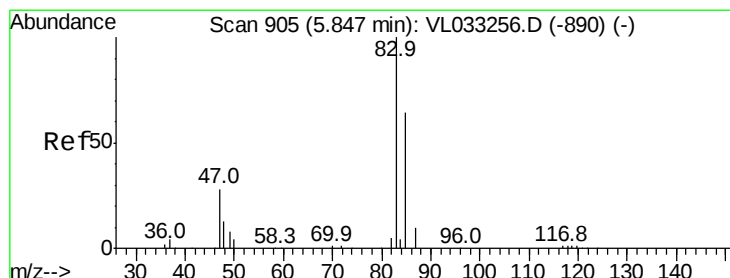
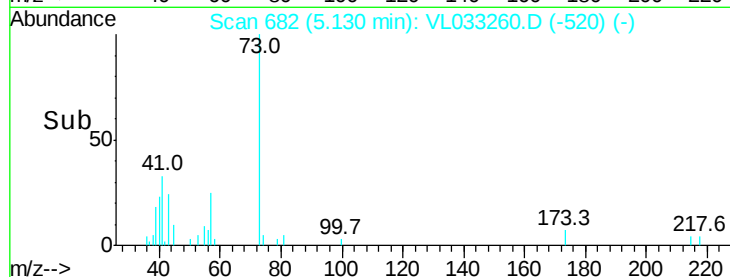
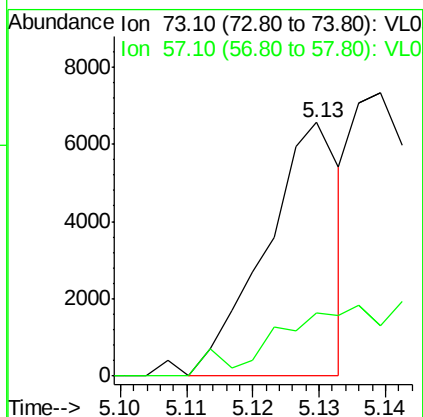
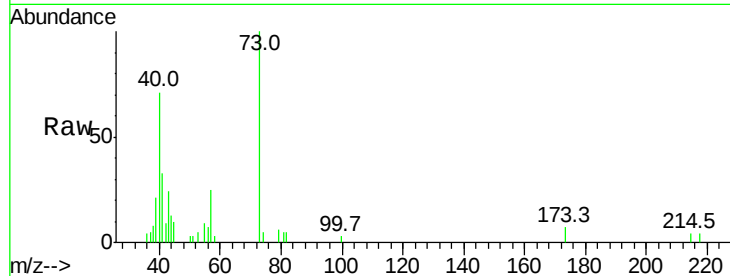




#28
Methyl tert-Butyl Ether
Concen: 0.031 ppbv
RT: 5.13 min Scan# 682
Delta R.T. 0.02 min
Lab File: VL033260.D
Acq: 8 Mar 2019 15:18

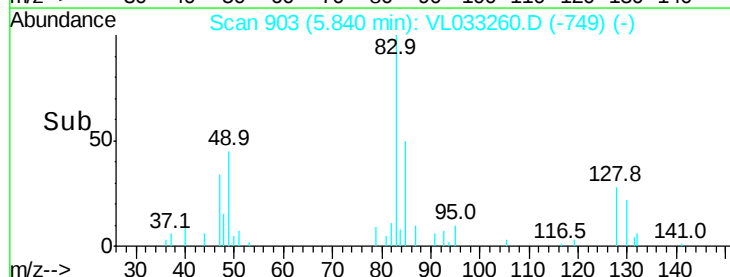
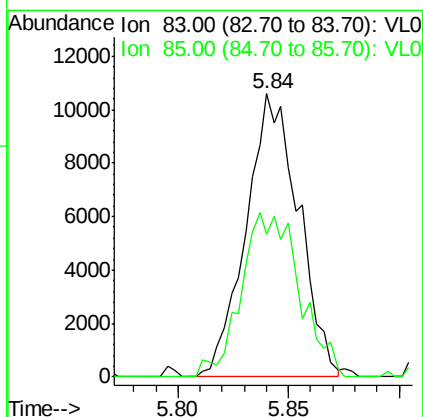
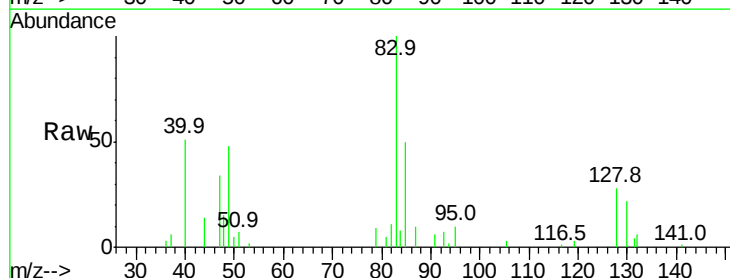
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

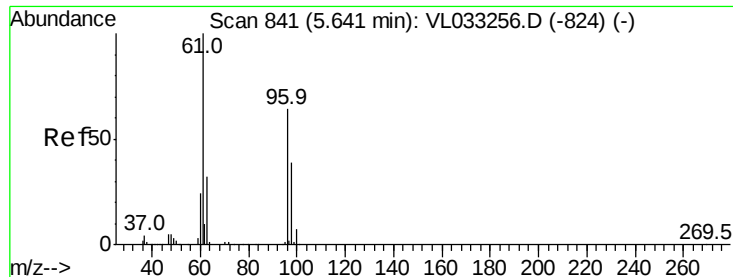
Tgt Ion: 73 Resp: 5129
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#29
Chloroform
Concen: 0.093 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033260.D
Acq: 8 Mar 2019 15:18

Tgt Ion: 83 Resp: 17498
Ion Ratio Lower Upper
83 100
85 50.2 51.0 76.6#





#31

cis-1,2-Dichloroethene

Concen: 0.037 ppbv

RT: 5.64 min Scan# 842

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

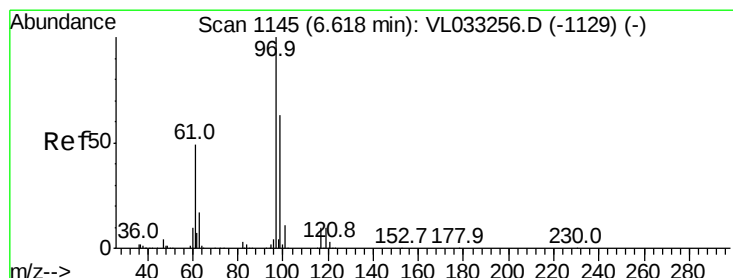
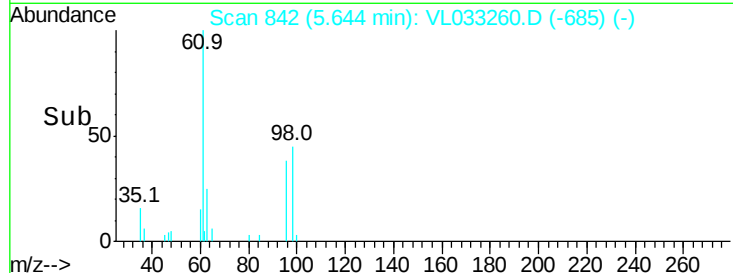
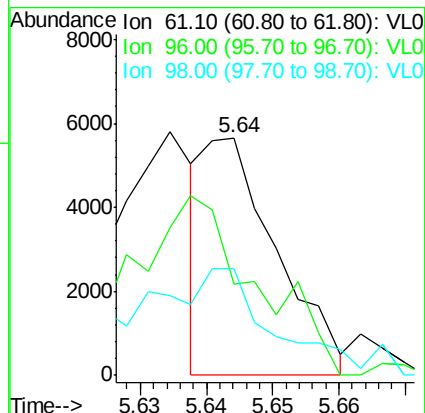
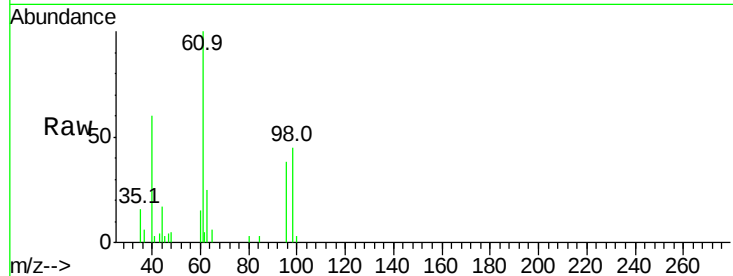
Tgt Ion: 61 Resp: 4284

Ion Ratio Lower Upper

61 100

96 39.7 51.2 76.8#

98 35.3 30.8 46.2



#32

1,1,1-Trichloroethane

Concen: 0.046 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

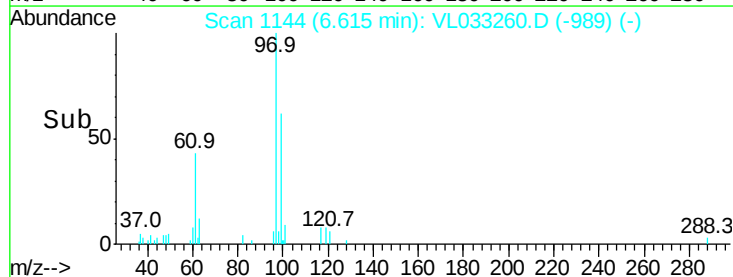
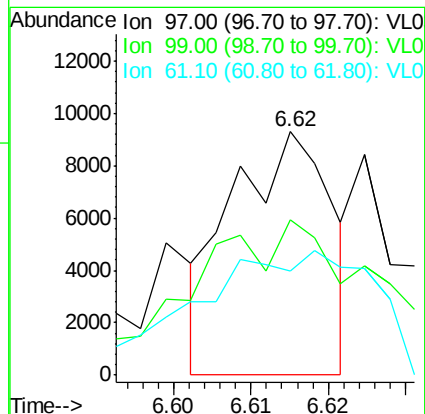
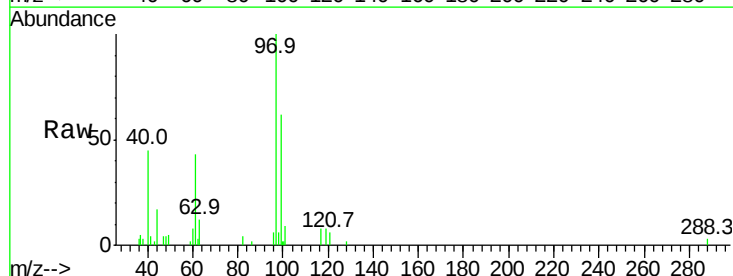
Tgt Ion: 97 Resp: 8328

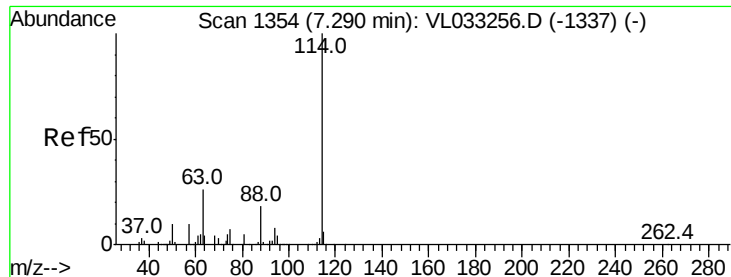
Ion Ratio Lower Upper

97 100

99 125.8 51.6 77.4#

61 103.9 40.8 61.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.01 min

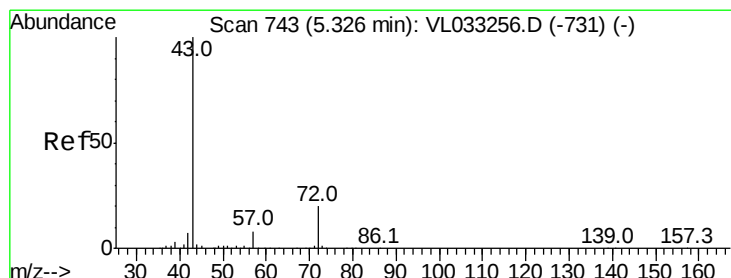
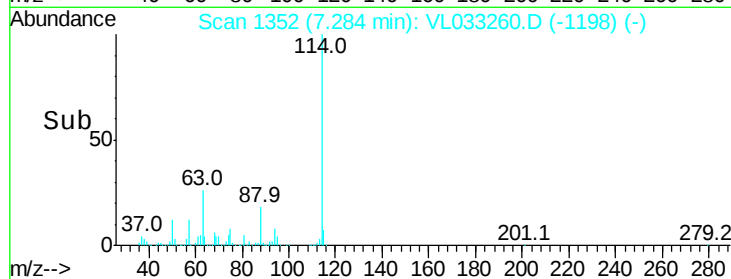
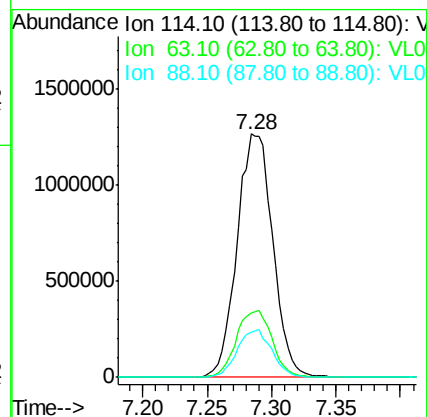
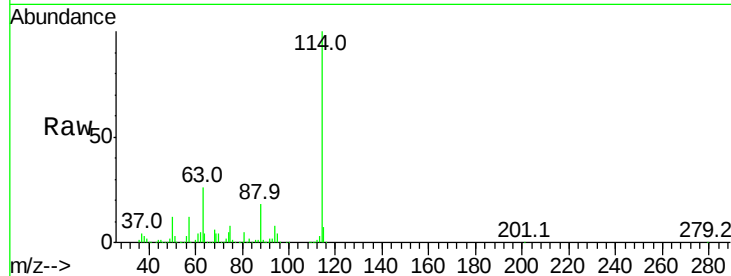
Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion:114 Resp: 2440502

Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.2	33.2
88	19.0	14.6	22.0



#34

2-Butanone

Concen: 0.083 ppbv

RT: 5.36 min Scan# 753

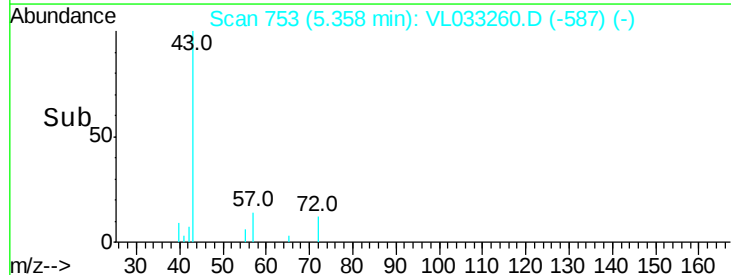
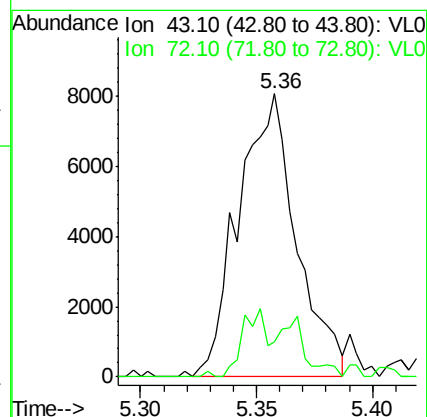
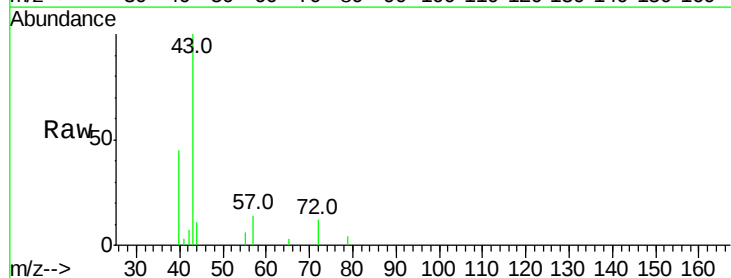
Delta R.T. 0.03 min

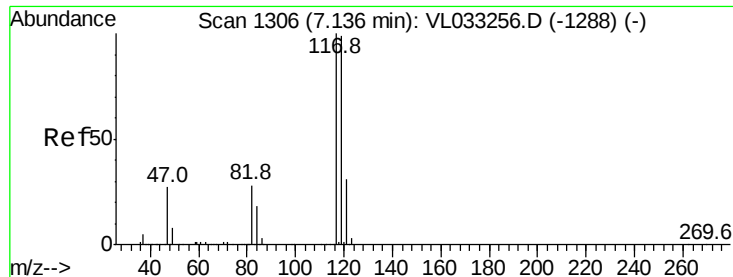
Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Tgt Ion: 43 Resp: 14048

Ion	Ratio	Lower	Upper
43	100		
72	21.7	16.9	25.3





#35

Carbon Tetrachloride

Concen: 0.084 ppbv

RT: 7.12 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

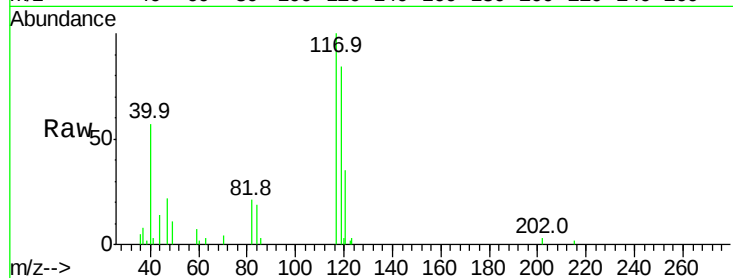
Tgt Ion:117 Resp: 15530

Ion Ratio Lower Upper

117 100

119 84.1 79.0 118.6

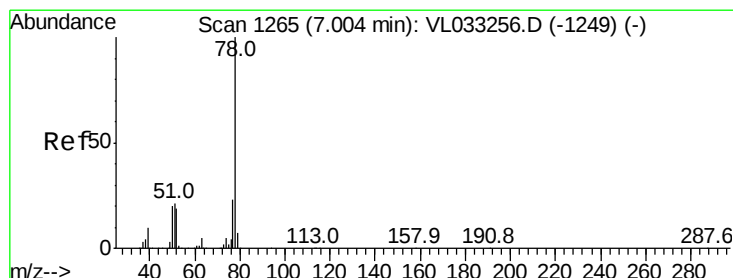
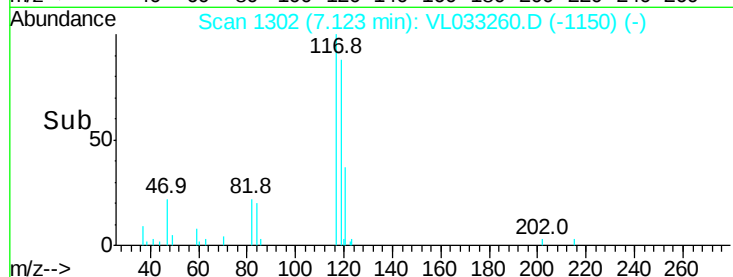
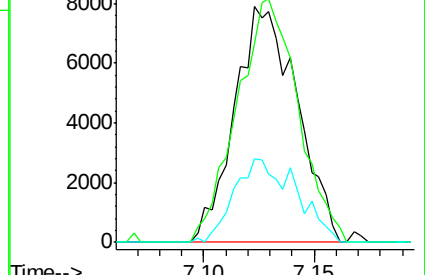
121 35.5 24.7 37.1



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: 0.050 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

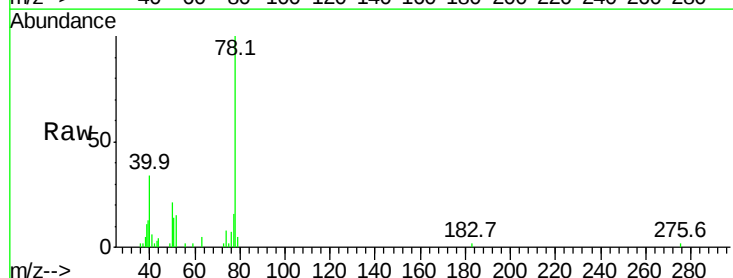
Tgt Ion: 78 Resp: 11486

Ion Ratio Lower Upper

78 100

77 10.5 18.2 27.2#

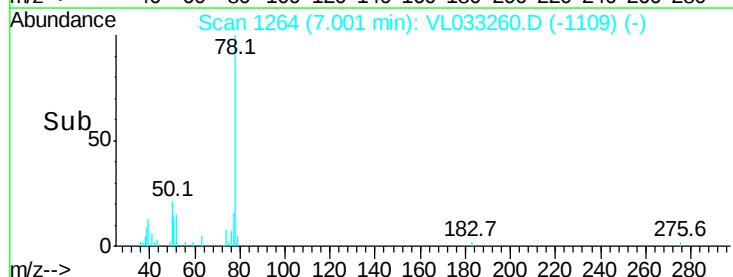
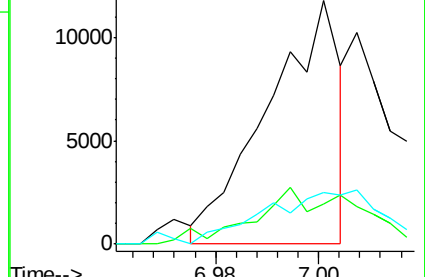
50 20.0 16.2 24.2

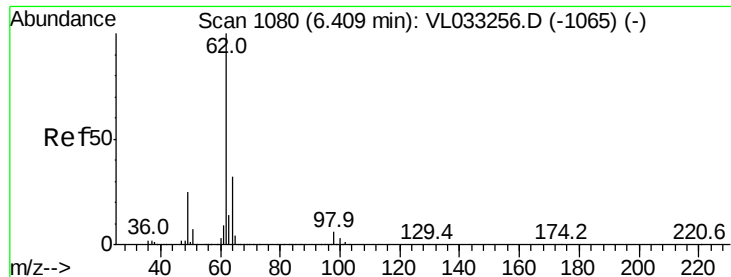


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

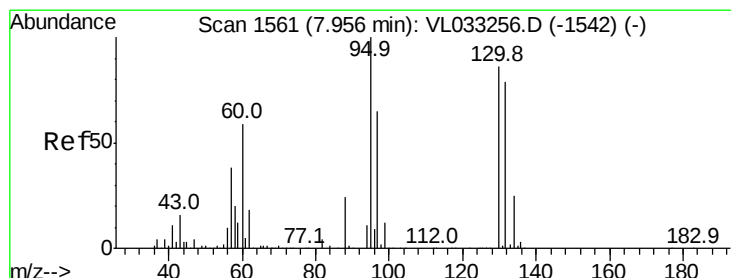
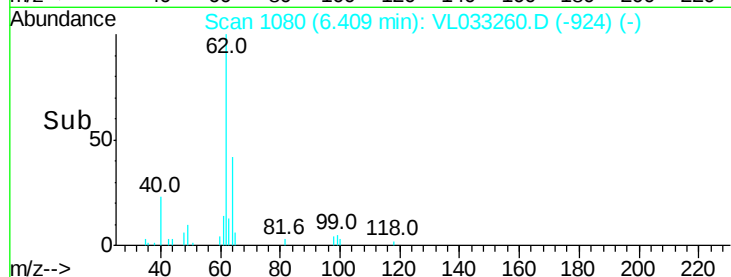
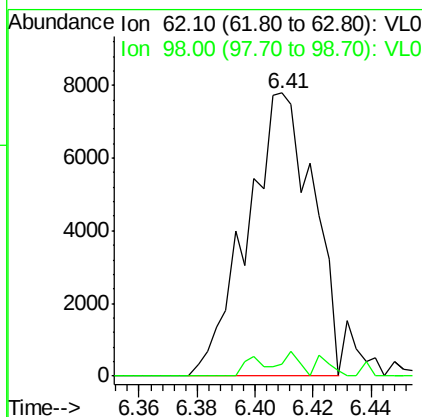
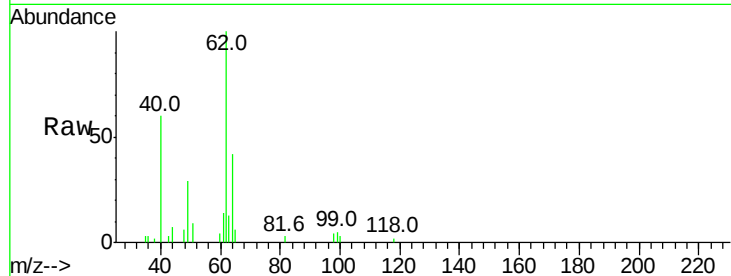




#37
 1,2-Dichloroethane
 Concen: 0.086 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VL033260.D
 Acq: 8 Mar 2019 15:18

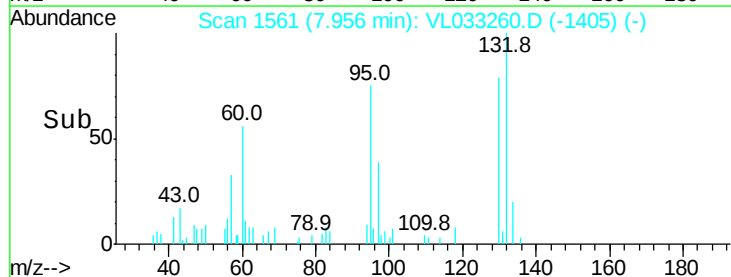
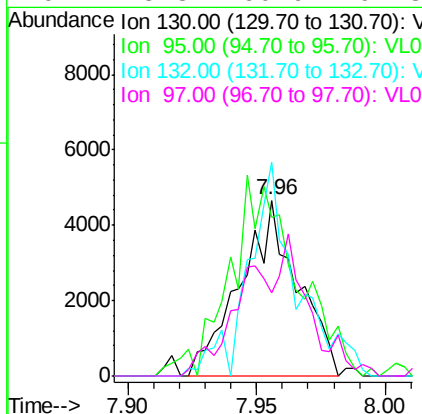
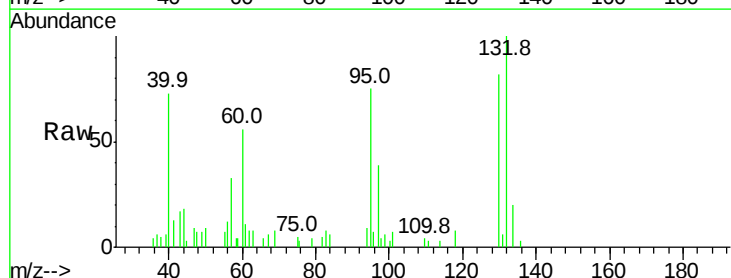
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

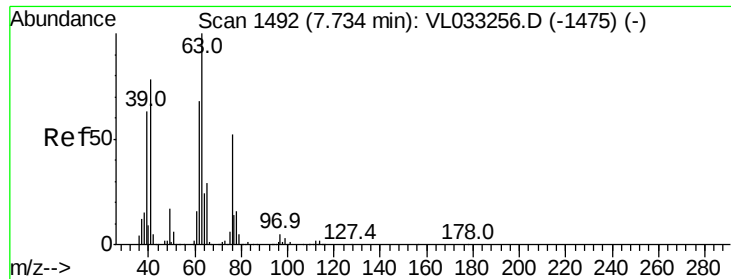
Tgt Ion: 62 Resp: 12225
 Ion Ratio Lower Upper
 62 100
 98 6.7 4.5 6.7#



#38
 Trichloroethene
 Concen: 0.084 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033260.D
 Acq: 8 Mar 2019 15:18

Tgt Ion: 130 Resp: 7273
 Ion Ratio Lower Upper
 130 100
 95 75.6 93.4 140.0#
 132 116.8 74.0 111.0#
 97 45.3 60.9 91.3#





#39

1,2-Dichloropropane

Concen: 7.524 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.44 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

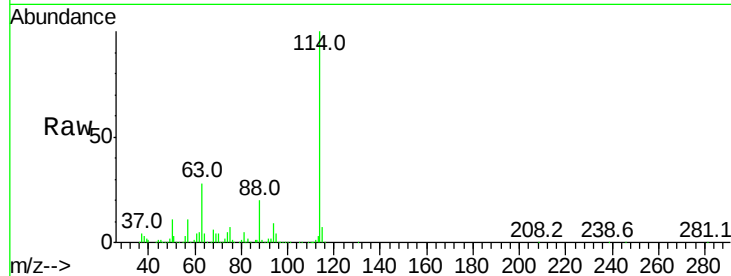
Tgt Ion: 63 Resp: 672847

Ion Ratio Lower Upper

63 100

41 0.0 62.6 94.0#

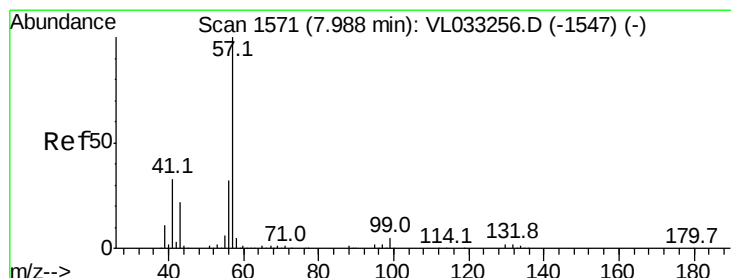
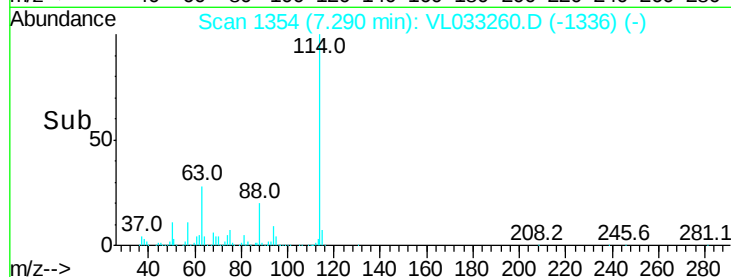
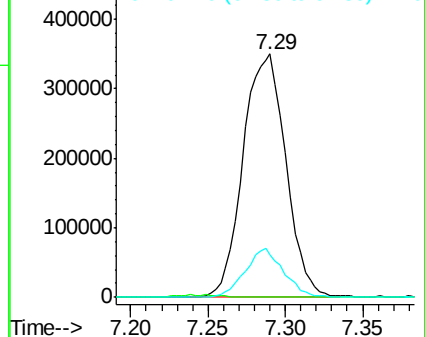
62 17.8 54.6 81.8#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.035 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

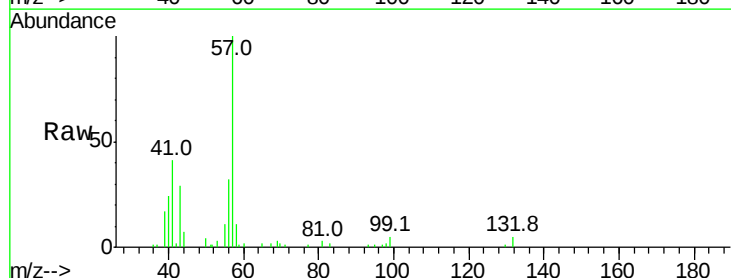
Tgt Ion: 57 Resp: 14100

Ion Ratio Lower Upper

57 100

41 86.2 26.4 39.6#

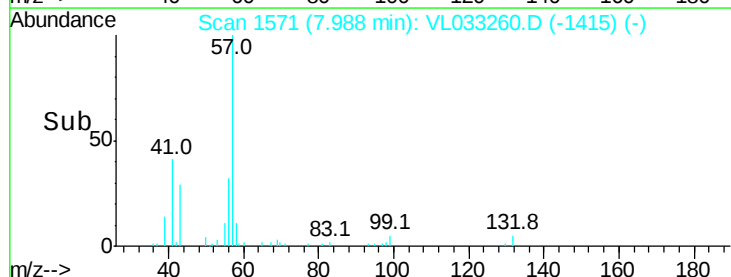
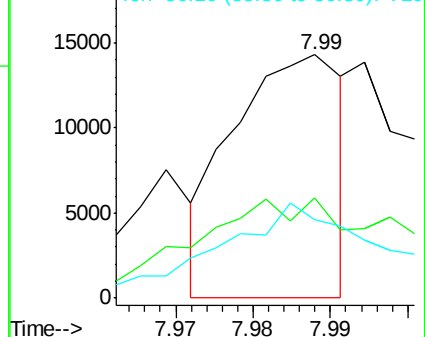
56 72.1 25.1 37.7#

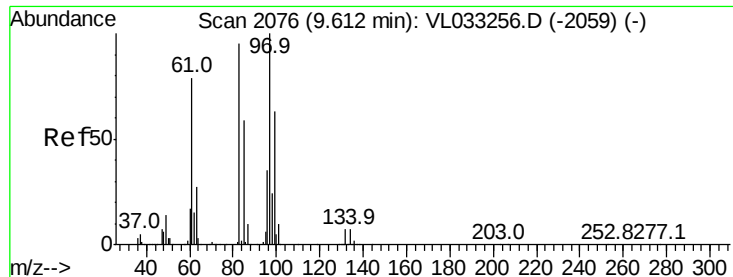


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#47

1,1,2-Trichloroethane

Concen: 0.075 ppbv

RT: 9.61 min Scan# 2074

Delta R.T. -0.01 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 7207

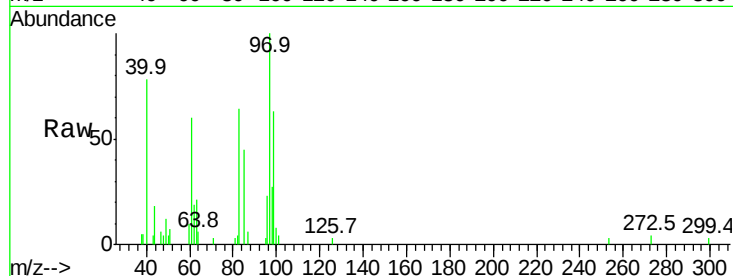
Ion Ratio Lower Upper

97 100

83 57.6 75.8 113.8#

85 34.5 47.5 71.3#

99 59.4 50.2 75.2

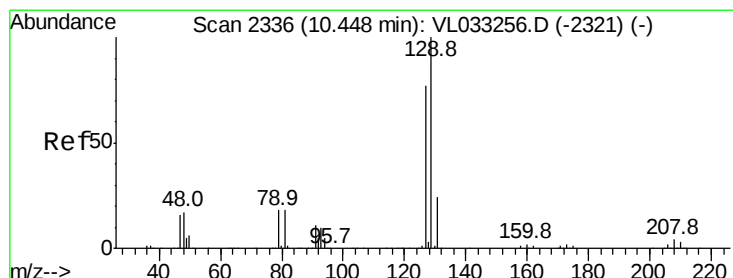
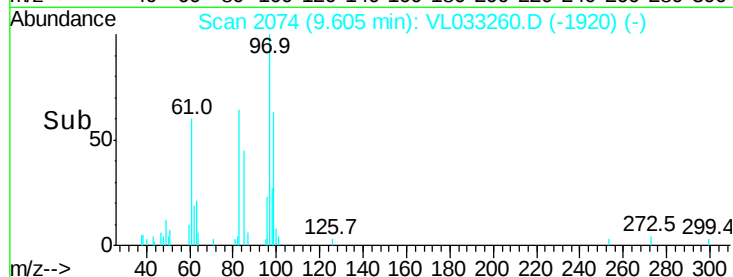
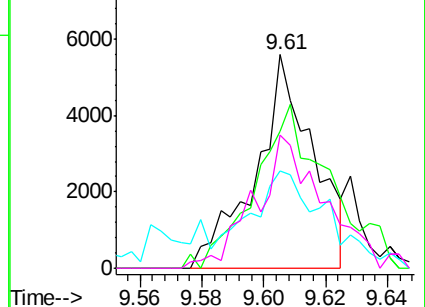


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.056 ppbv

RT: 10.45 min Scan# 2336

Delta R.T. 0.00 min

Lab File: VL033260.D

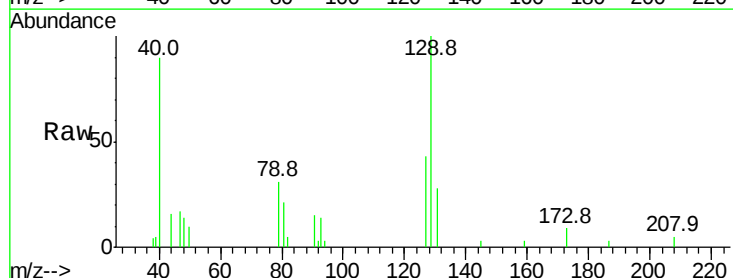
Acq: 8 Mar 2019 15:18

Tgt Ion: 129 Resp: 8727

Ion Ratio Lower Upper

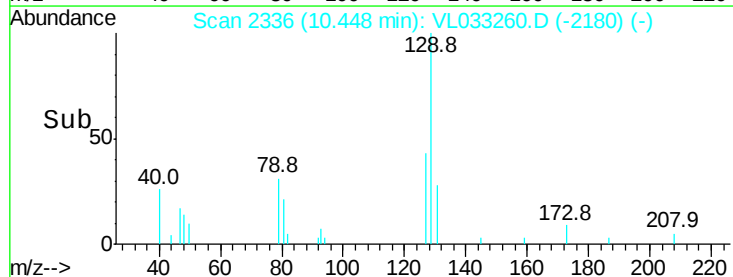
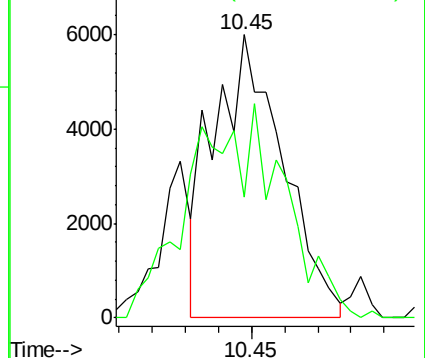
129 100

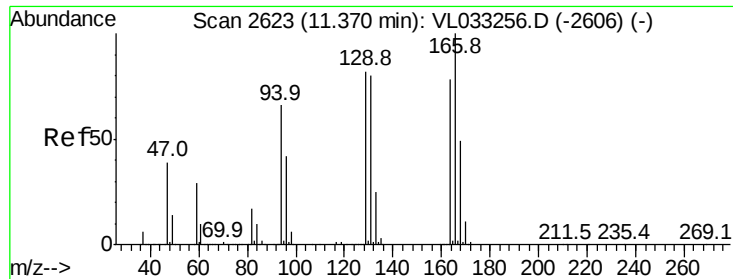
127 101.0 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#52

Tetrachloroethene

Concen: 0.036 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. -0.01 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:164 Resp: 3108

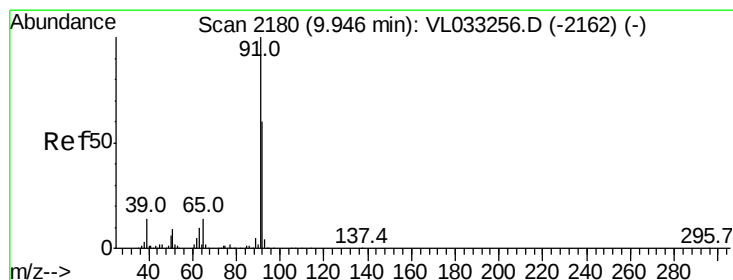
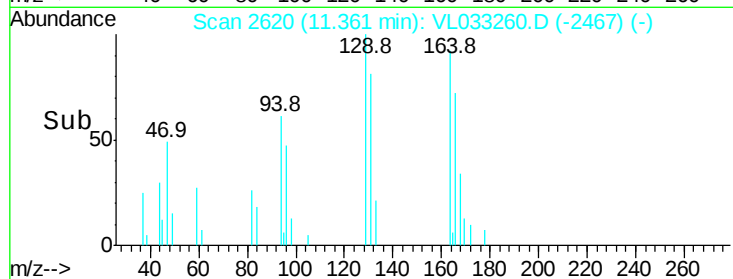
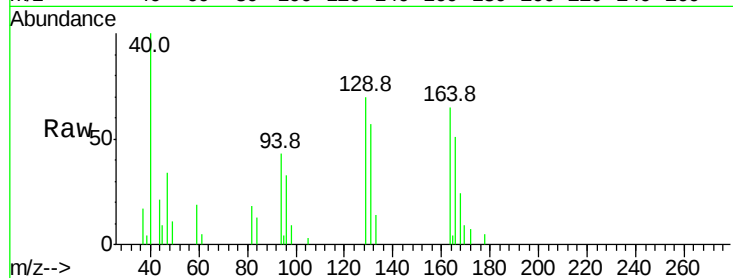
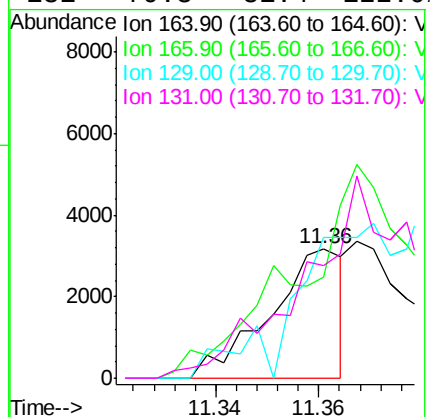
Ion Ratio Lower Upper

164 100

166 56.2 102.0 153.0#

129 108.4 83.2 124.8

131 79.3 81.4 122.0#



#53

Toluene

Concen: 0.068 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033260.D

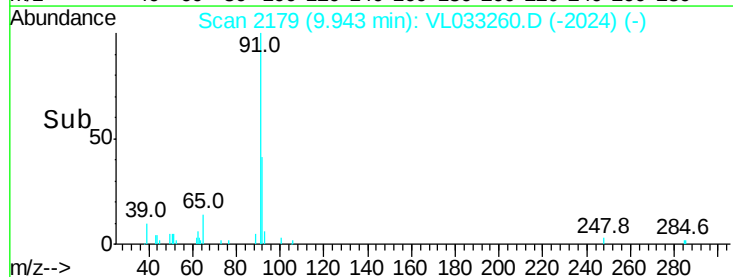
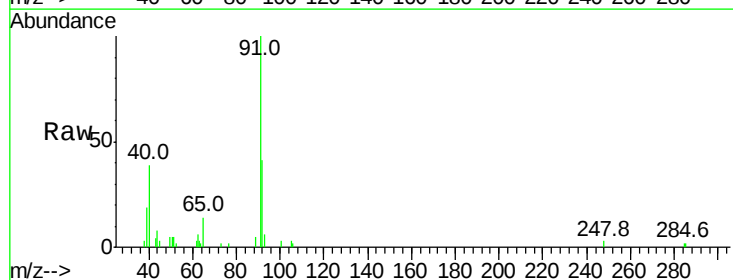
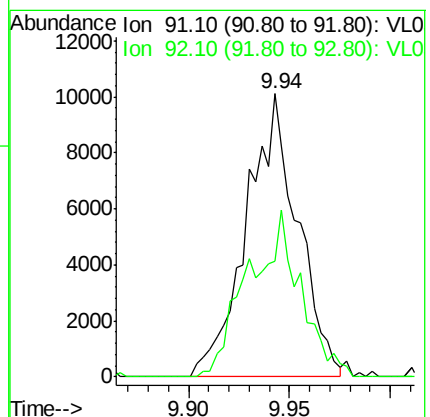
Acq: 8 Mar 2019 15:18

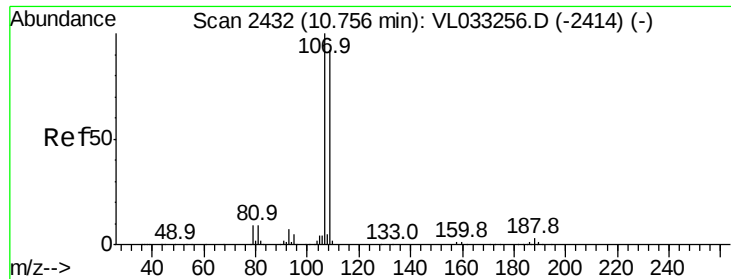
Tgt Ion: 91 Resp: 17887

Ion Ratio Lower Upper

91 100

92 59.8 47.7 71.5





#54

1,2-Dibromoethane

Concen: 0.042 ppbv

RT: 10.75 min Scan# 2430

Delta R.T. -0.01 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

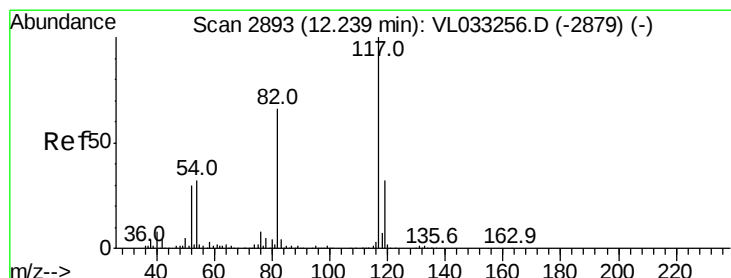
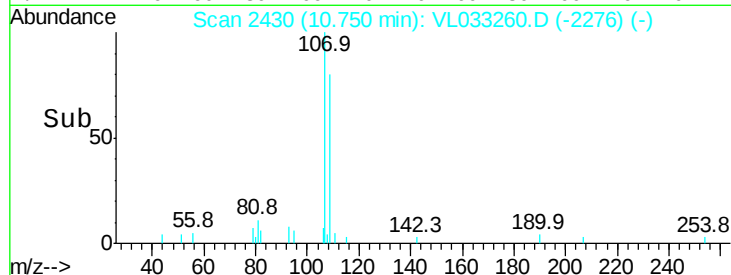
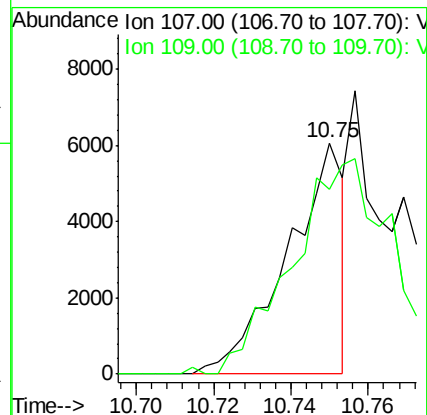
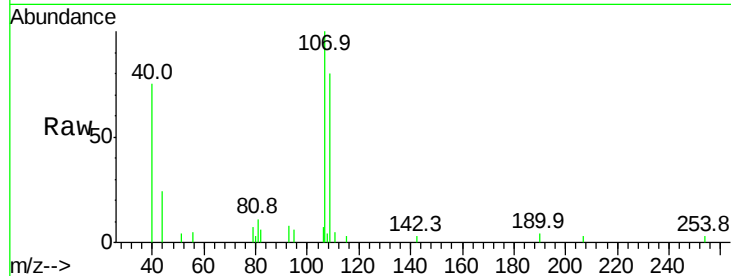
VSTDIC0.1

Tgt Ion:107 Resp: 6079

Ion Ratio Lower Upper

107 100

109 77.2 73.9 110.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

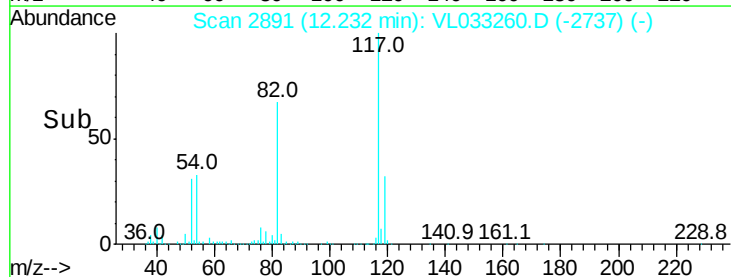
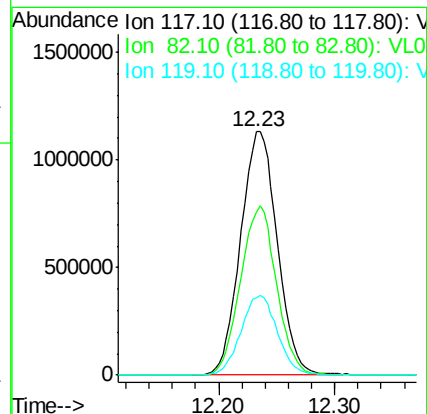
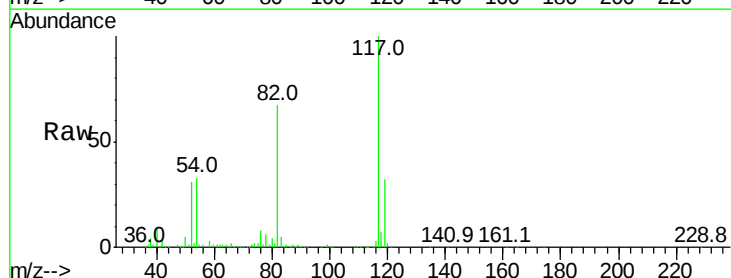
Tgt Ion:117 Resp: 2491285

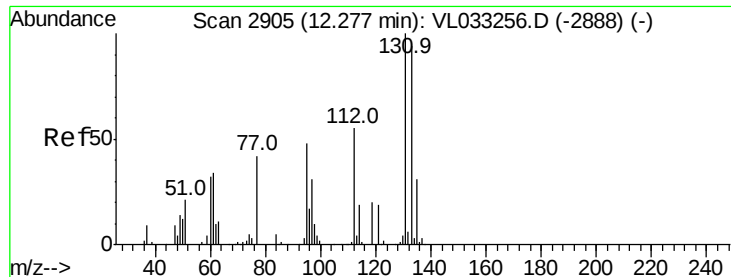
Ion Ratio Lower Upper

117 100

82 68.2 52.2 78.4

119 32.5 43.4 65.2#





#56

1,1,1,2-Tetrachloroethane

Concen: 0.058 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

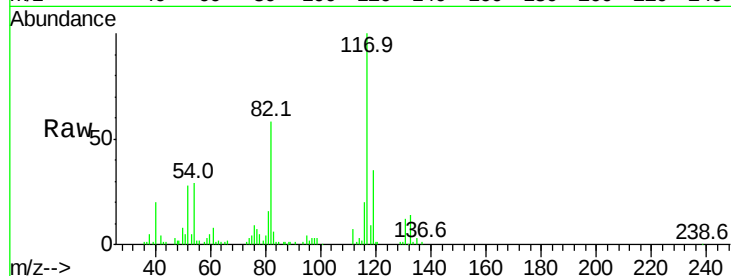
Tgt Ion:131 Resp: 6281

Ion Ratio Lower Upper

131 100

133 152.3 76.3 114.5#

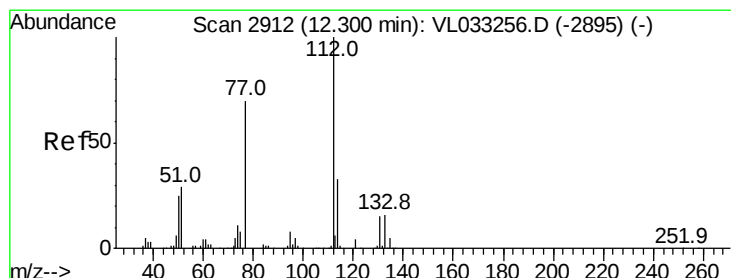
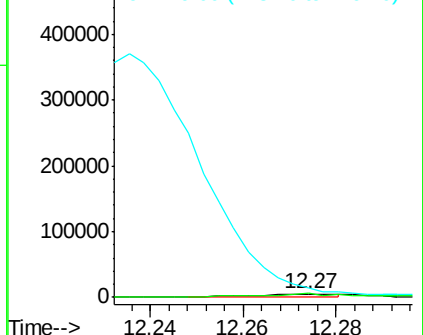
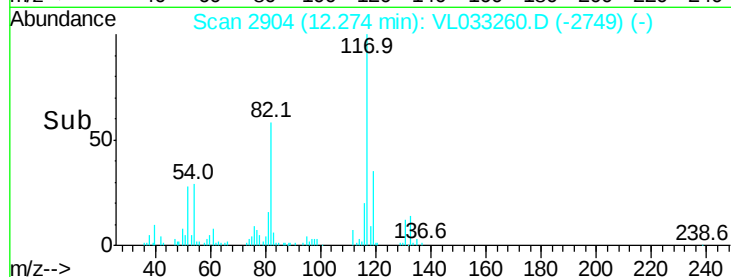
119 0.0 109.2 163.8#



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: 0.064 ppbv

RT: 12.30 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

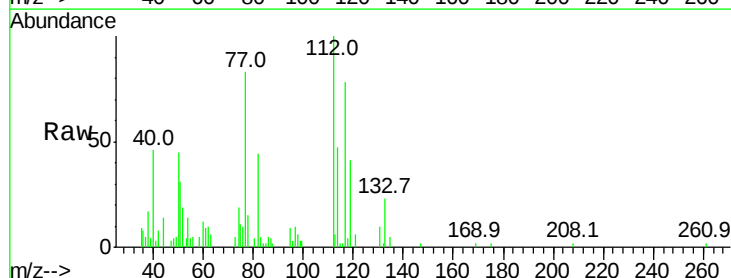
Tgt Ion:112 Resp: 12413

Ion Ratio Lower Upper

112 100

77 78.6 56.8 85.2

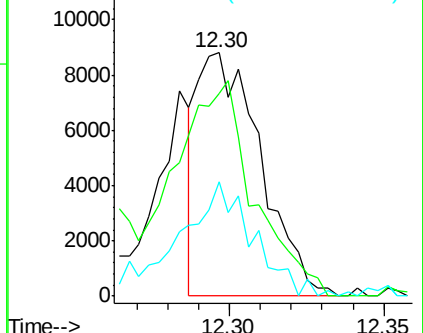
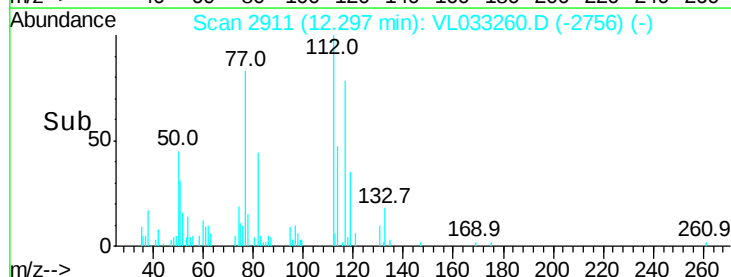
114 44.6 29.5 36.1#

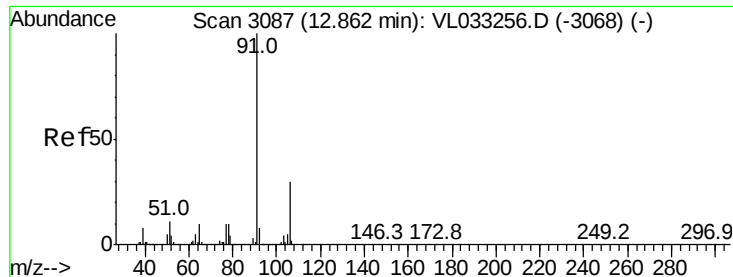


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): V

Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 0.044 ppbv

RT: 12.86 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

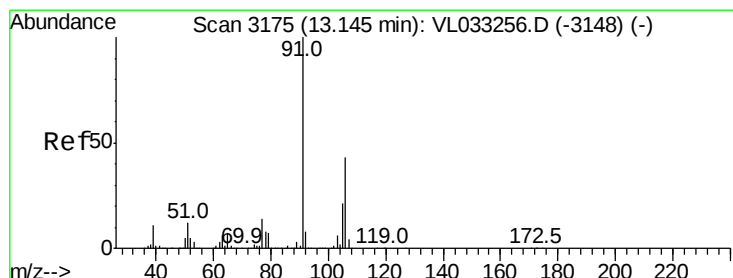
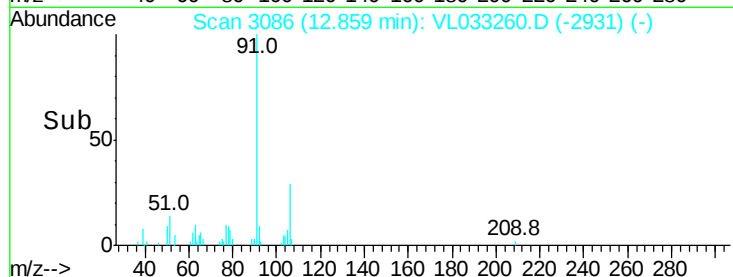
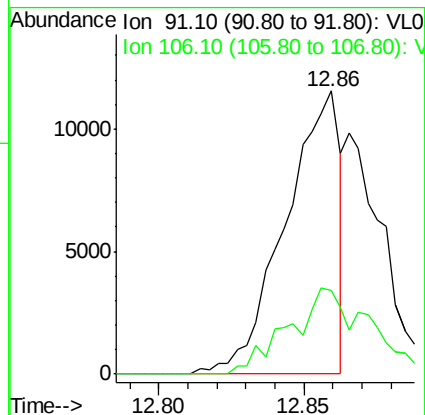
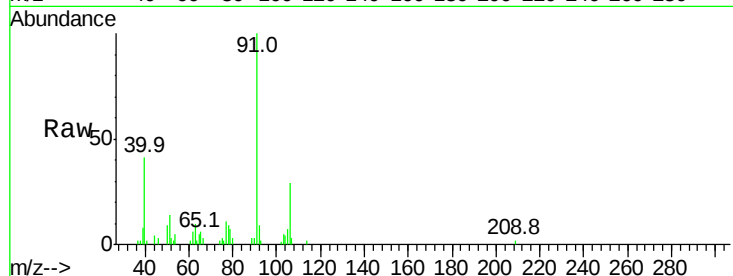
VSTDIC0.1

Tgt Ion: 91 Resp: 15074

Ion Ratio Lower Upper

91 100

106 31.9 23.7 35.5



#59

m/p-Xylene

Concen: 0.041 ppbv

RT: 13.14 min Scan# 3174

Delta R.T. -0.00 min

Lab File: VL033260.D

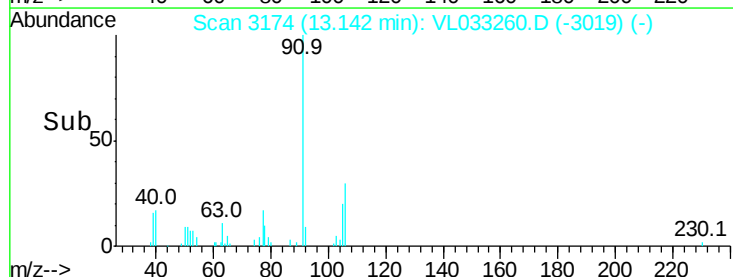
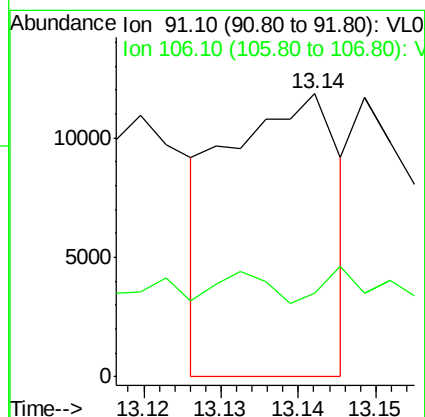
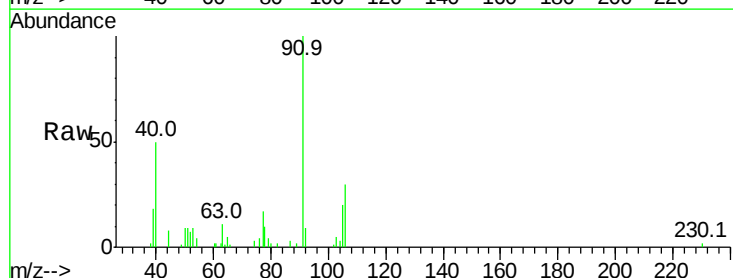
Acq: 8 Mar 2019 15:18

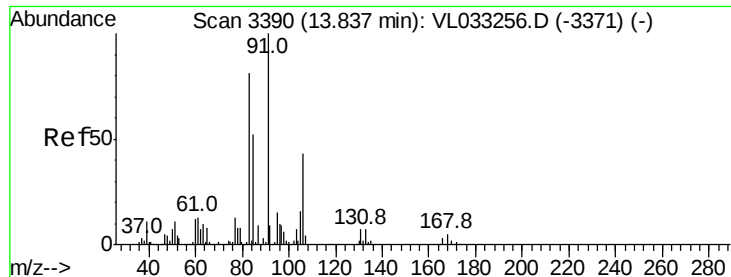
Tgt Ion: 91 Resp: 11933

Ion Ratio Lower Upper

91 100

106 0.0 35.0 52.4#

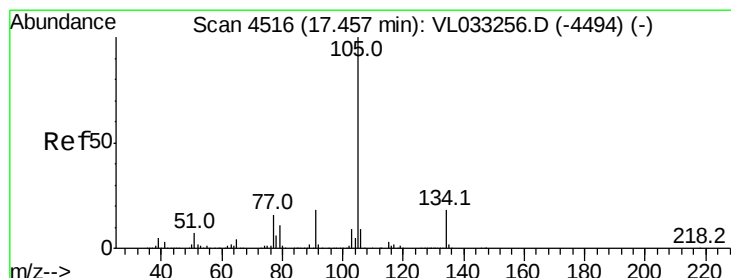
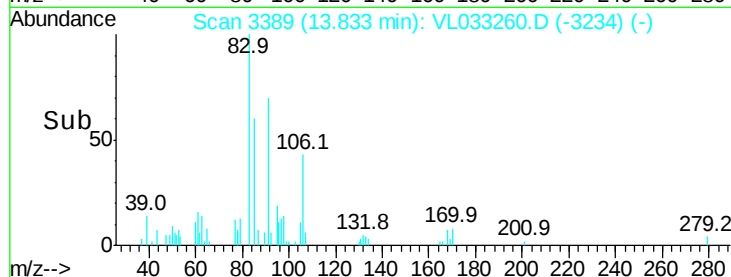
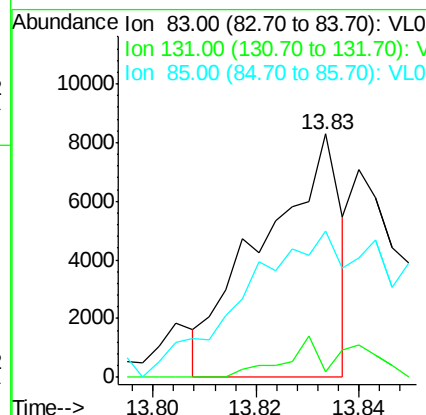
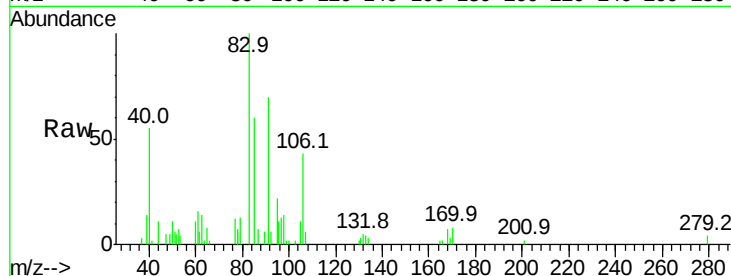




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.043 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033260.D
 Acq: 8 Mar 2019 15:18

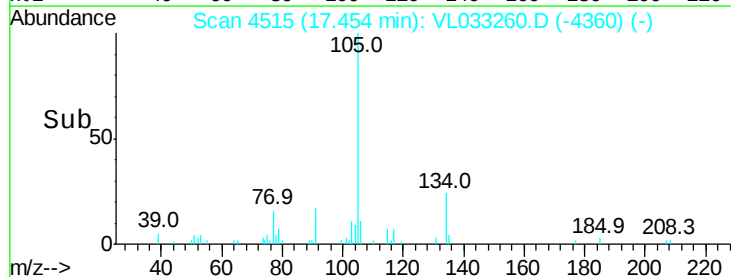
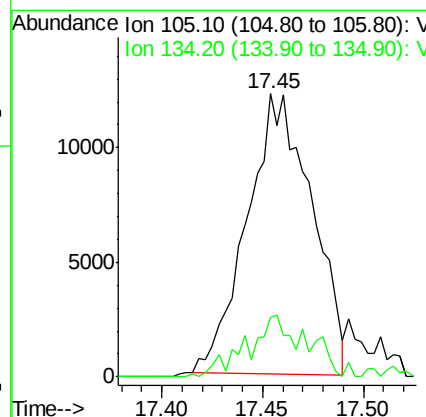
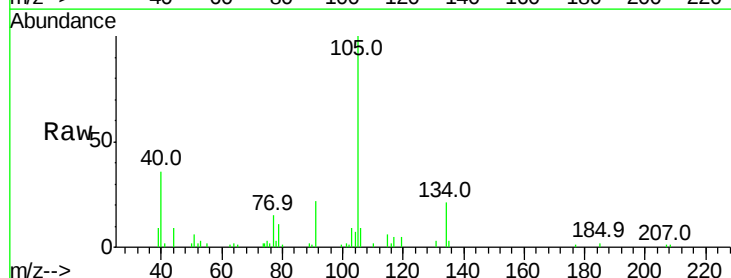
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

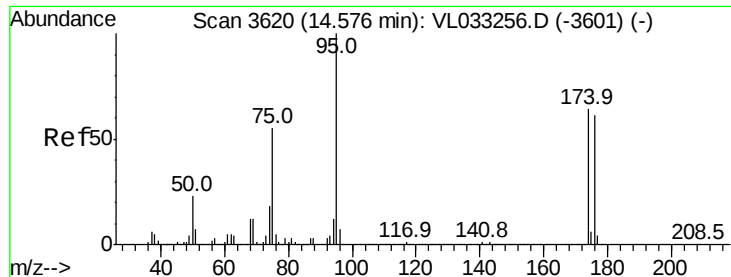
Tgt Ion: 83 Resp: 8663
 Ion Ratio Lower Upper
 83 100
 131 19.0 4.7 14.0#
 85 140.6 32.4 97.0#



#67
 sec-Butylbenzene
 Concen: 0.058 ppbv
 RT: 17.45 min Scan# 4515
 Delta R.T. -0.00 min
 Lab File: VL033260.D
 Acq: 8 Mar 2019 15:18

Tgt Ion: 105 Resp: 27411
 Ion Ratio Lower Upper
 105 100
 134 20.2 14.0 21.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.595 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

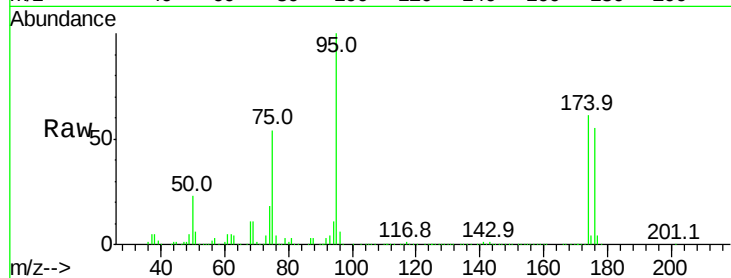
Tgt Ion: 95 Resp: 2002964

Ion Ratio Lower Upper

95 100

174 63.2 51.7 77.5

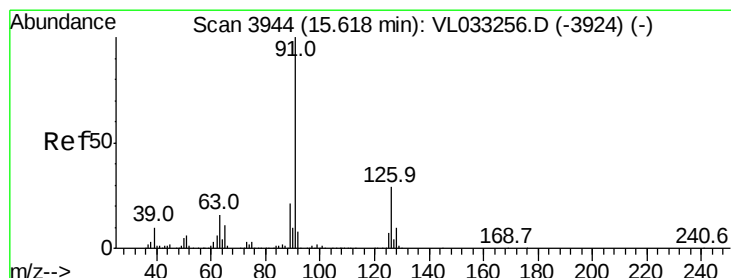
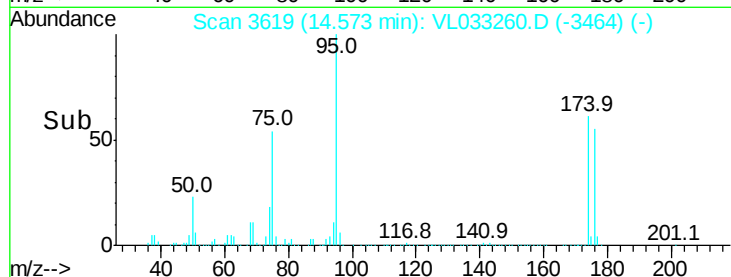
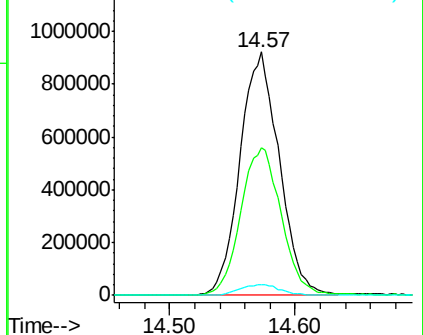
175 4.6 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#71

2-Chlorotoluene

Concen: 0.071 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VL033260.D

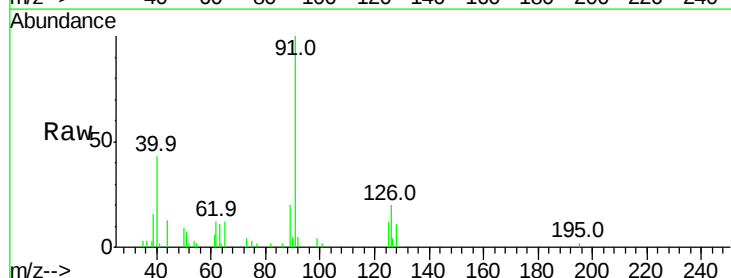
Acq: 8 Mar 2019 15:18

Tgt Ion: 91 Resp: 21125

Ion Ratio Lower Upper

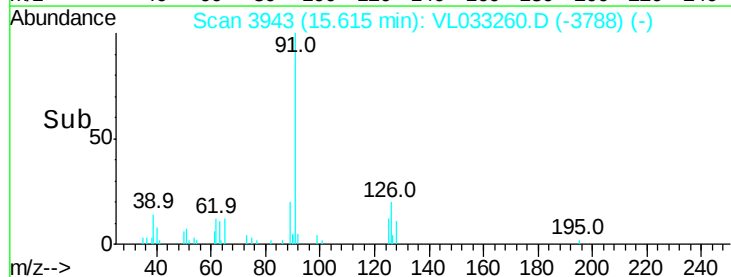
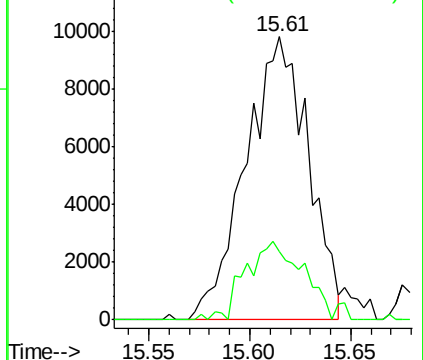
91 100

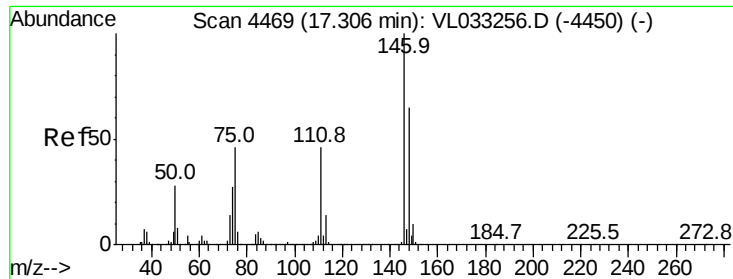
126 26.3 11.7 46.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#76

1,4-Dichlorobenzene

Concen: 0.039 ppbv

RT: 17.30 min Scan# 4467

Delta R.T. -0.01 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

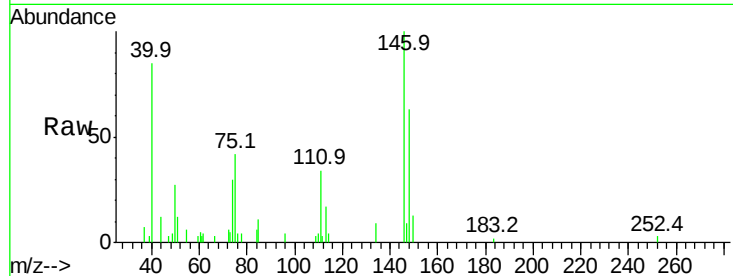
Tgt Ion:146 Resp: 6966

Ion Ratio Lower Upper

146 100

111 104.4 22.6 67.7#

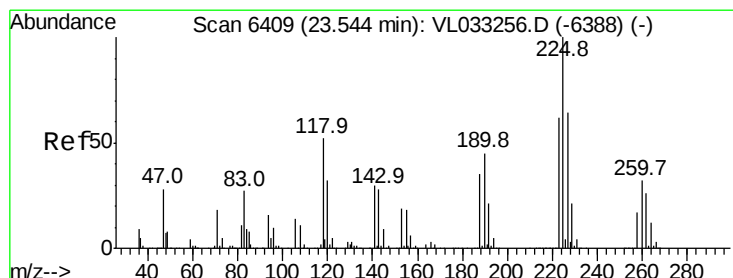
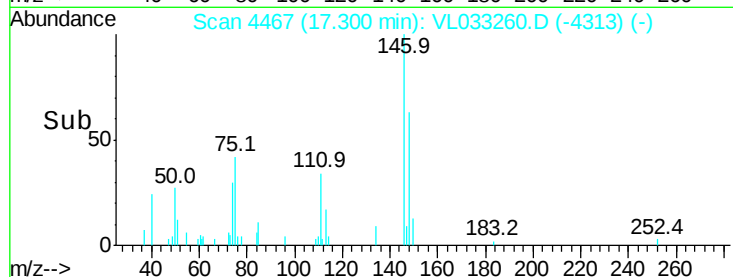
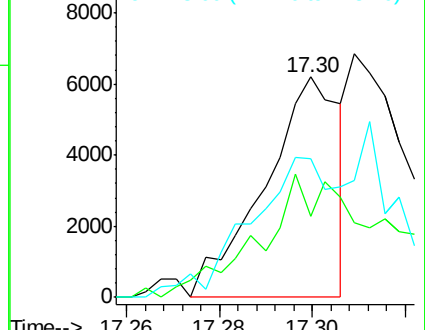
148 0.0 32.3 96.9#



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: 0.035 ppbv

RT: 23.54 min Scan# 6407

Delta R.T. -0.01 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

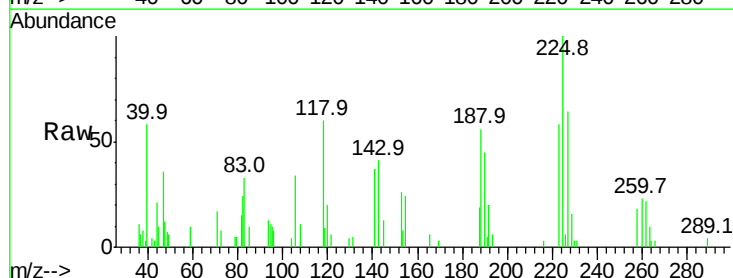
Tgt Ion:225 Resp: 4308

Ion Ratio Lower Upper

225 100

223 0.0 50.4 75.6#

227 0.0 51.4 77.0#



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

