

Data File : VL036318.D
Acq On : 10 Feb 2021 14:01
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Feb 10 15:30:00 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 13:51:24 2021
QLast Update : Wed Feb 10 13:51:24 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1540814	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3387279	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3025221	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2535690	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.03	85	28294	0.137	ppbv	99
3) Chlorodifluoromethane	2.97	51	21809	0.115	ppbv	96
4) Chloromethane	3.12	50	6078	0.065	ppbv #	83
5) Vinyl Chloride	3.24	62	3495	0.039	ppbv	99
6) Bromomethane	3.46	94	1744	0.035	ppbv #	59
7) Chloroethane	3.54	64	1680	0.055	ppbv	89
8) Dichlorotetrafluoroethane	3.18	85	23030	0.115	ppbv	93
9) Propene	3.00	41	8187	0.091	ppbv #	15
10) Heptane	8.09	43	7590	0.034	ppbv #	28
11) Trichlorofluoromethane	3.93	101	15942	0.076	ppbv #	76
12) 1,1,2-Trichlorotrifluoroet	4.47	101	8088	0.064	ppbv #	13
13) Ethanol	3.59	45	466	0.033	ppbv #	32
14) Bromoethene	3.73	108	5857	0.101	ppbv #	72
15) Acetone	3.85	43	39593	0.210	ppbv #	50
18) 1,1-Dichloroethene	4.27	96	4078	0.069	ppbv #	63
20) Methylene Chloride	4.33	84	8832	0.147	ppbv #	79
21) Allyl Chloride	4.39	41	4446	0.043	ppbv #	16
22) trans-1,2-Dichloroethene	4.87	96	3296	0.060	ppbv #	65
23) Vinyl Acetate	5.05	43	8151	0.036	ppbv #	76
24) 1,1-Dichloroethane	4.99	63	9665	0.058	ppbv #	86
25) Ethyl Acetate	5.67	43	19098	0.050	ppbv #	71
26) Hexane	5.66	57	8590	0.054	ppbv #	1
28) Methyl tert-Butyl Ether	5.04	73	8105	0.038	ppbv #	20
30) Cyclohexane	7.11	84	4175	0.035	ppbv #	1
32) 1,1,1-Trichloroethane	6.49	97	11669	0.053	ppbv #	16
35) Carbon Tetrachloride	6.98	117	9902	0.046	ppbv #	77
37) 1,2-Dichloroethane	6.28	62	11271	0.060	ppbv #	83
38) Trichloroethene	7.80	130	4098	0.036	ppbv #	64
39) 1,2-Dichloropropane	7.15	63	967407	7.677	ppbv #	23
42) Bromodichloromethane	7.77	83	12800	0.055	ppbv #	84
43) Methyl Methacrylate	8.00	69	6444	0.049	ppbv #	1
44) 2,2,4-Trimethylpentane	7.84	57	23840	0.042	ppbv #	40
47) 1,1,2-Trichloroethane	9.46	97	6885	0.057	ppbv #	87
49) Bromoform	13.02	173	6173	0.042	ppbv #	26
53) Toluene	9.79	91	22936	0.066	ppbv	91
57) Chlorobenzene	12.13	112	11408	0.048	ppbv	98
60) o-Xylene	13.67	91	17458	0.047	ppbv #	37
62) Isopropylbenzene	14.65	105	24544	0.044	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	13.66	83	14518	0.052	ppbv #	26
64) n-propylbenzene	15.55	120	5327	0.039	ppbv #	1
67) sec-Butylbenzene	17.28	105	38985	0.056	ppbv #	60

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021021\
Quantitation Report (Not Reviewed)

Data File : VL036318.D
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Instrument :
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ClientSampleId :
VSTDICC0.1

Quant Time: Feb 10 15:30:00 2021
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Feb 10 13:51:24 2021
QLast Update : Wed Feb 10 13:51:24 2021
Response via : Initial Calibration

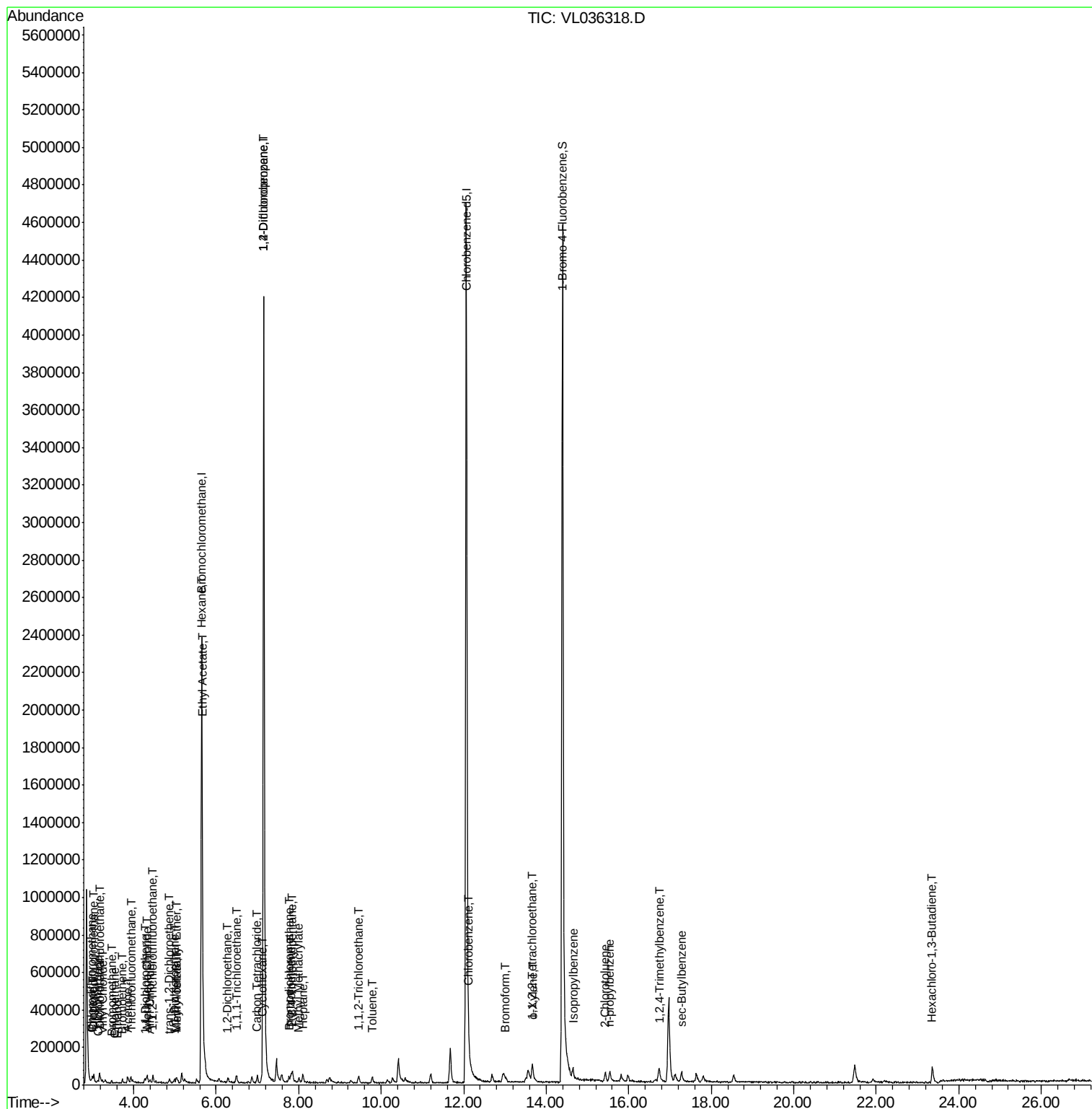
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	15.43	91	18083	0.042	ppbv #	51
74) 1,2,4-Trimethylbenzene	16.74	105	14685	0.036	ppbv #	51
78) Hexachloro-1,3-Butadiene	23.36	225	7747	0.045	ppbv #	1

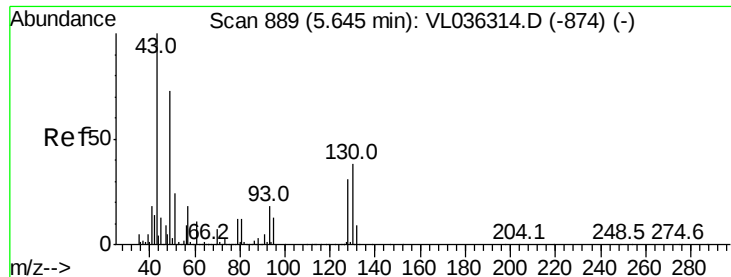
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

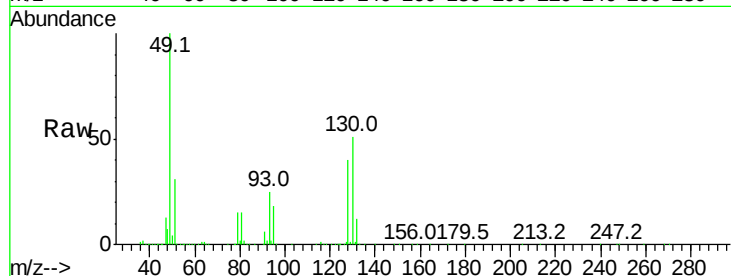
Tgt Ion: 49 Resp: 1540814

Ion Ratio Lower Upper

49 100

128 41.0 20.8 62.5

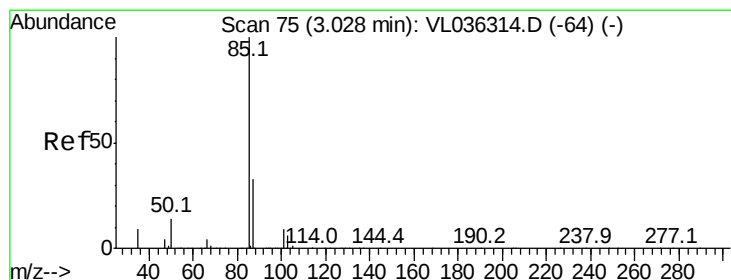
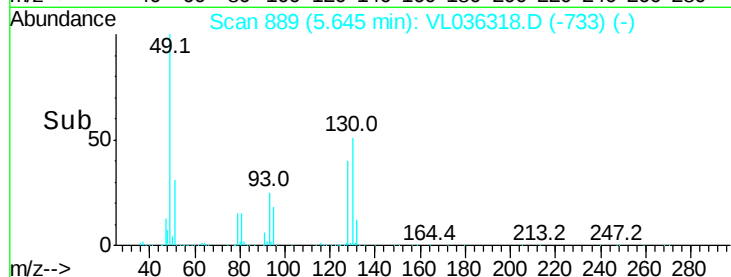
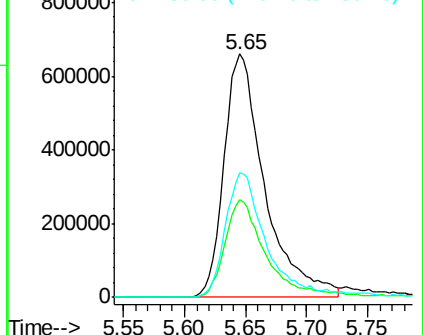
130 53.0 26.7 80.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.137 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL036318.D

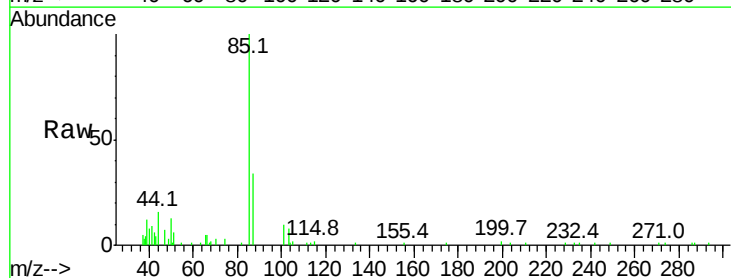
Acq: 10 Feb 2021 14:01

Tgt Ion: 85 Resp: 28294

Ion Ratio Lower Upper

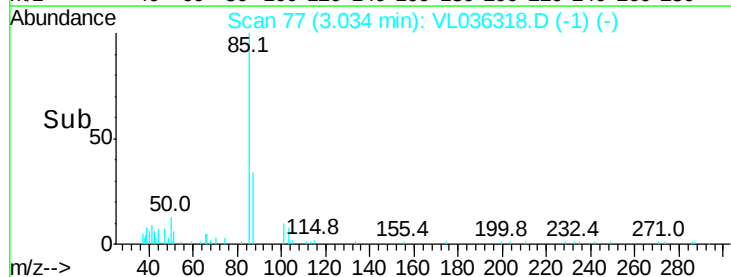
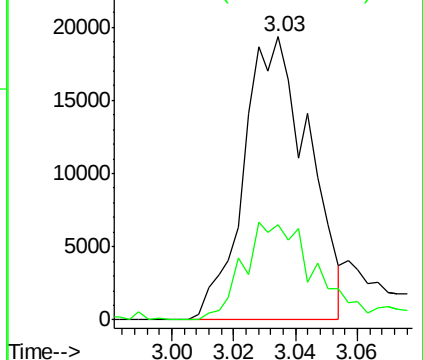
85 100

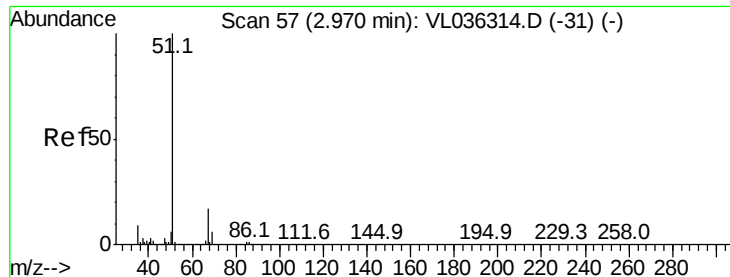
87 33.8 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.115 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

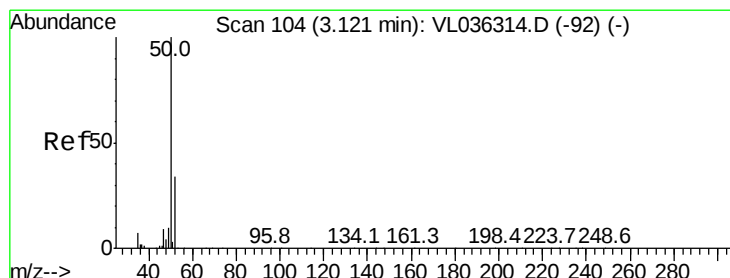
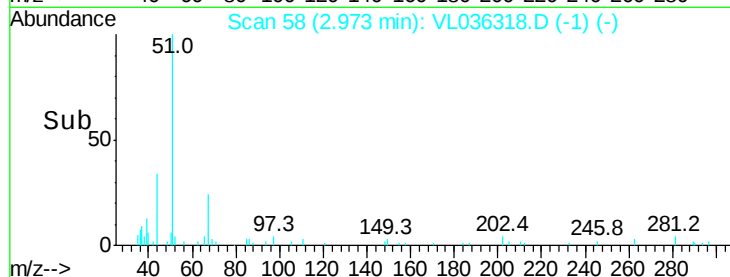
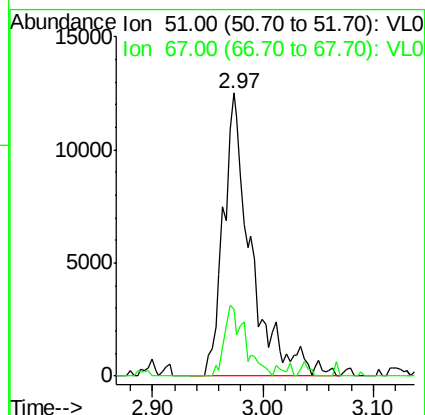
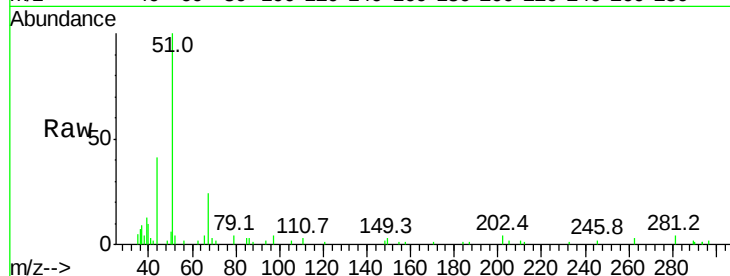
VSTDIC0.1

Tgt Ion: 51 Resp: 21809

Ion Ratio Lower Upper

51 100

67 20.1 14.7 22.1



#4

Chloromethane

Concen: 0.065 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL036318.D

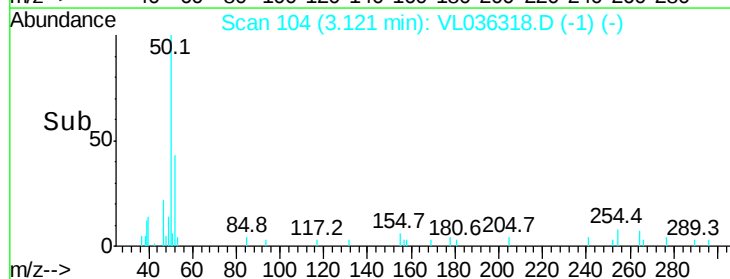
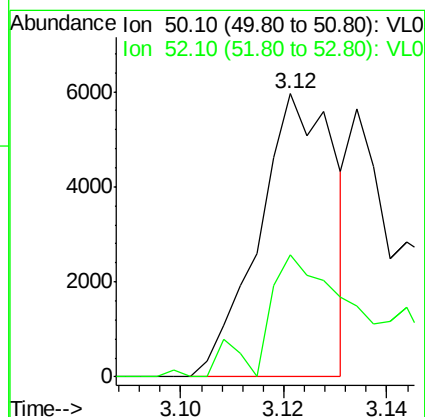
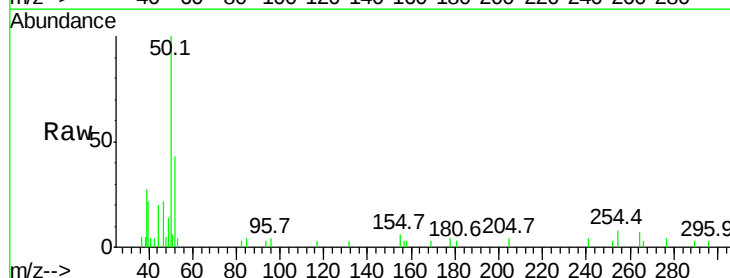
Acq: 10 Feb 2021 14:01

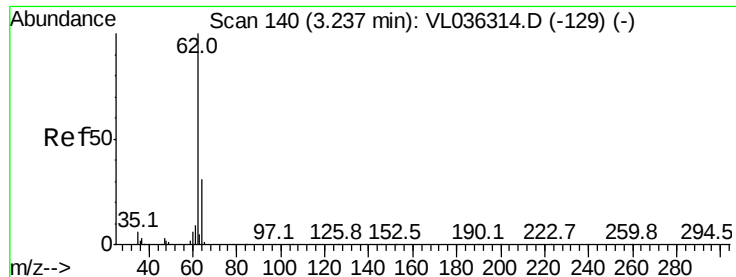
Tgt Ion: 50 Resp: 6078

Ion Ratio Lower Upper

50 100

52 43.2 27.0 40.4#





#5

Vinyl Chloride

Concen: 0.039 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

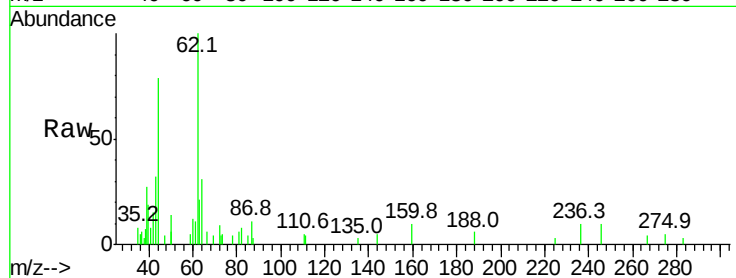
VSTDIC0.1

Tgt Ion: 62 Resp: 3495

Ion Ratio Lower Upper

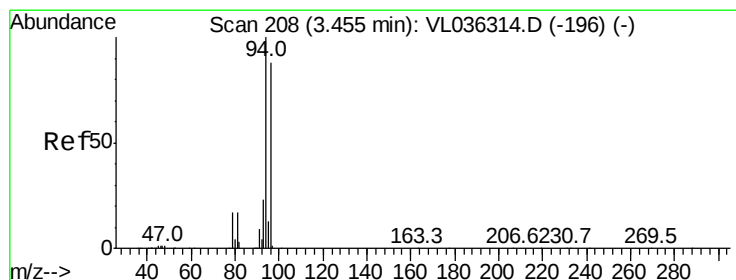
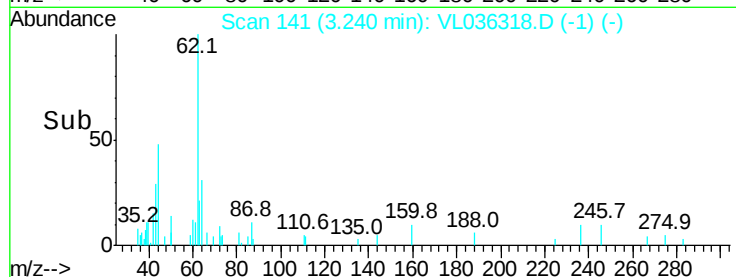
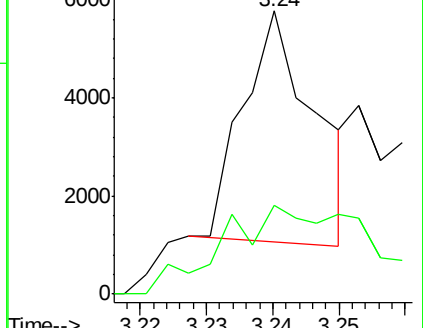
62 100

64 29.9 24.4 36.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.035 ppbv

RT: 3.46 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL036318.D

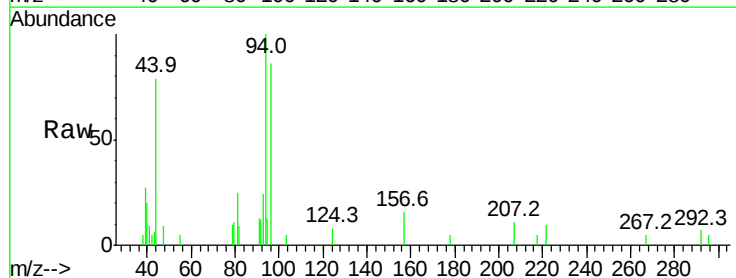
Acq: 10 Feb 2021 14:01

Tgt Ion: 94 Resp: 1744

Ion Ratio Lower Upper

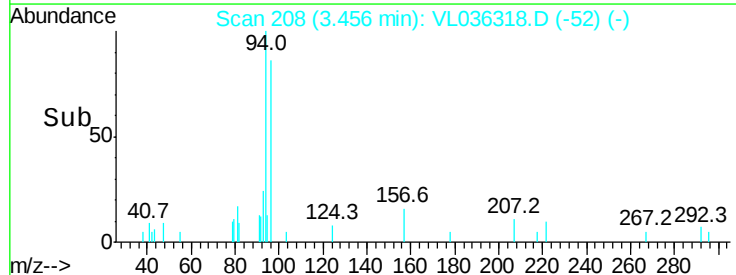
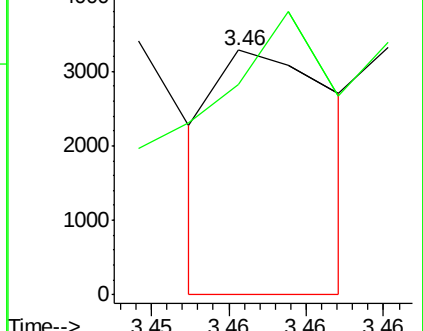
94 100

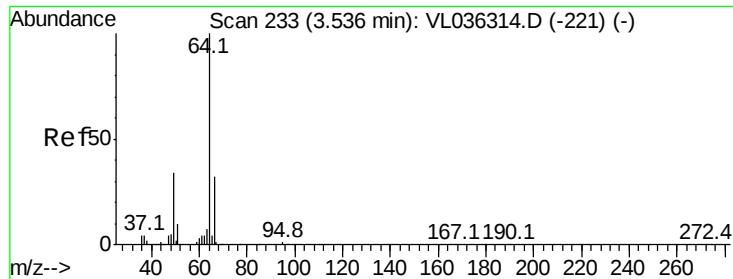
96 49.8 70.8 106.2#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.055 ppbv

RT: 3.54 min Scan# 233

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

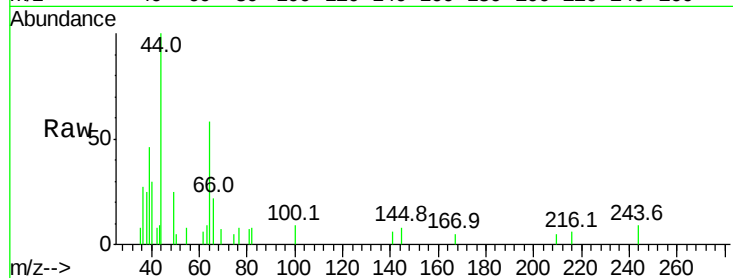
VSTDIC0.1

Tgt Ion: 64 Resp: 1680

Ion Ratio Lower Upper

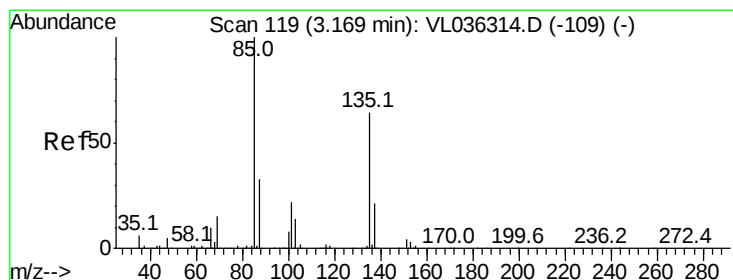
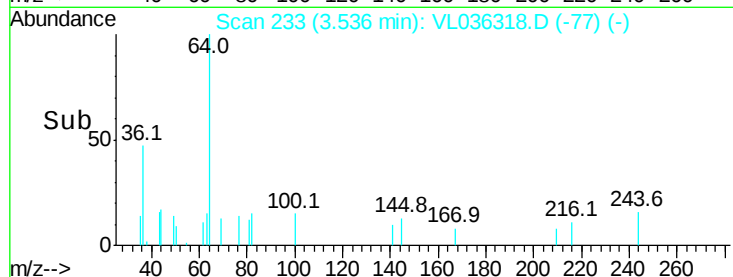
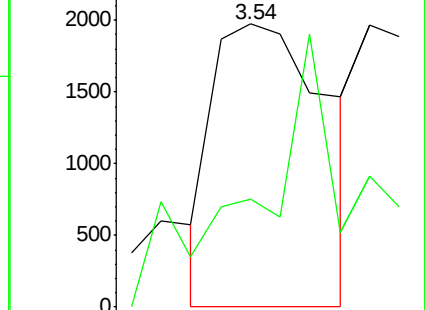
64 100

66 38.0 25.6 38.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.115 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.01 min

Lab File: VL036318.D

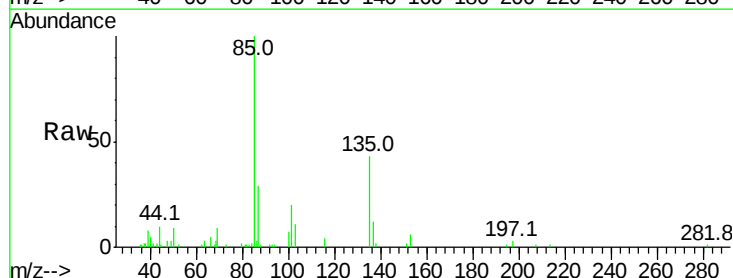
Acq: 10 Feb 2021 14:01

Tgt Ion: 85 Resp: 23030

Ion Ratio Lower Upper

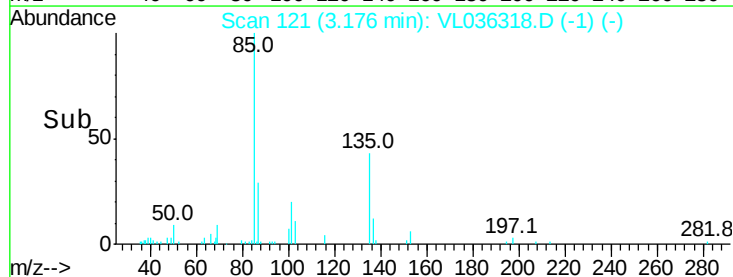
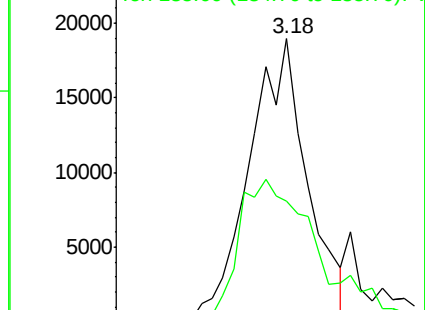
85 100

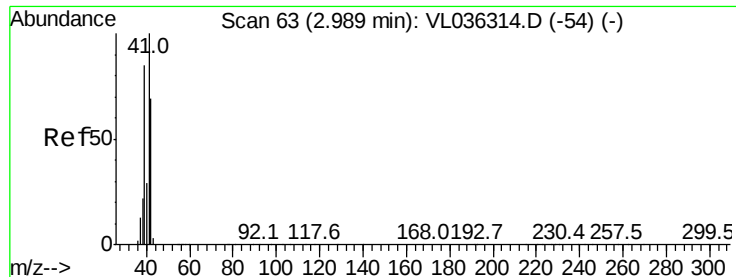
135 69.7 51.1 76.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0





#9

Propene

Concen: 0.091 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.01 min

Lab File: VL036318.D

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Instrument :

MSVOA_L

ClientSampleId :

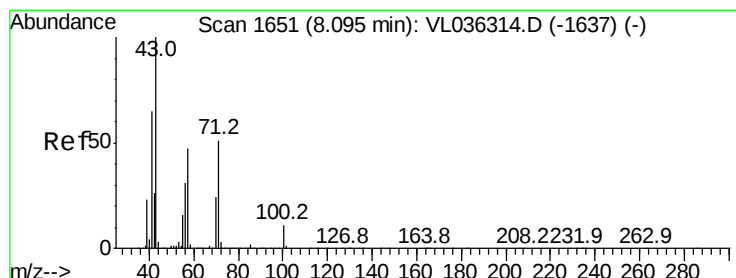
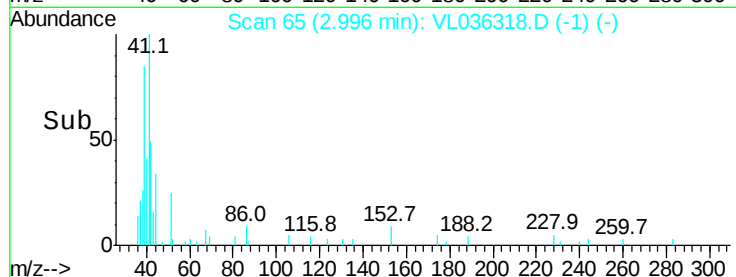
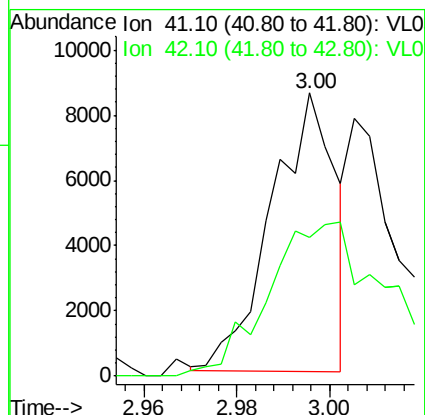
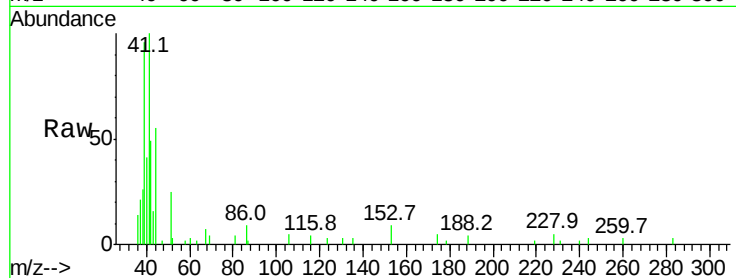
VSTDIC0.1

Tgt Ion: 41 Resp: 8187

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.2#



#10

Heptane

Concen: 0.034 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL036318.D

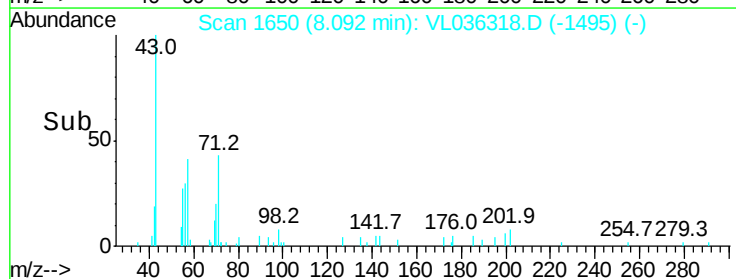
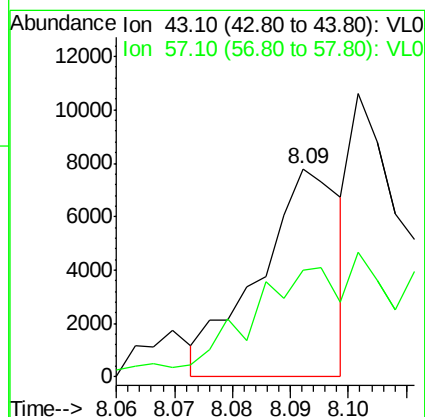
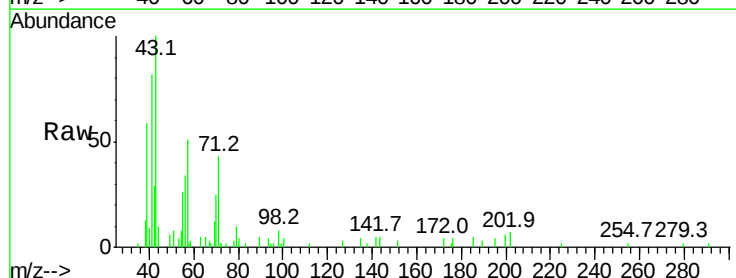
Acq: 10 Feb 2021 14:01

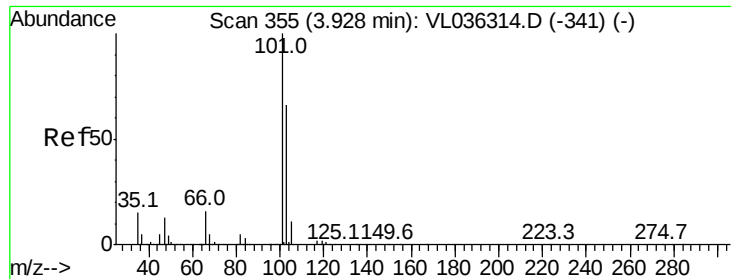
Tgt Ion: 43 Resp: 7590

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.2#

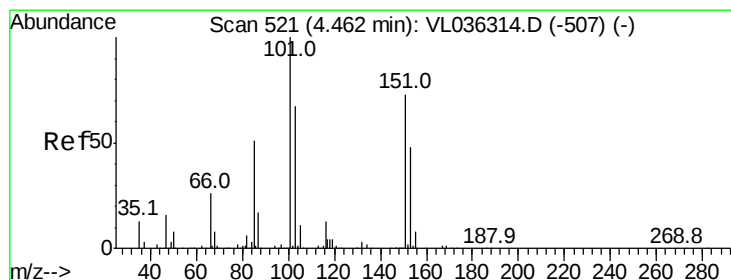
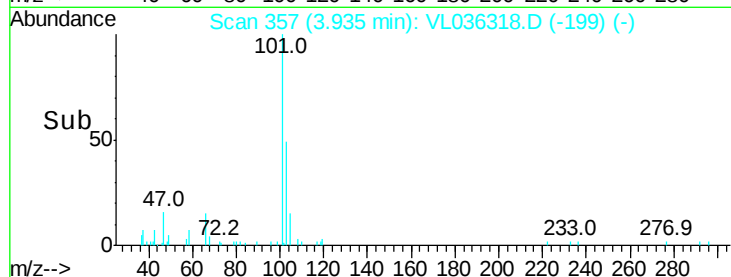
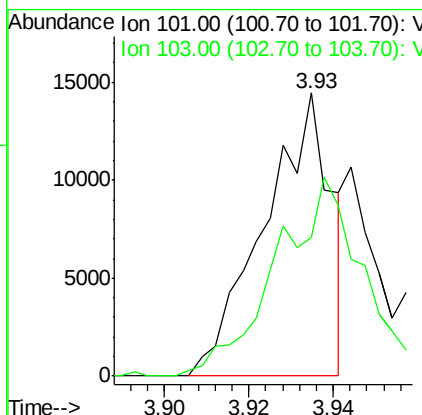
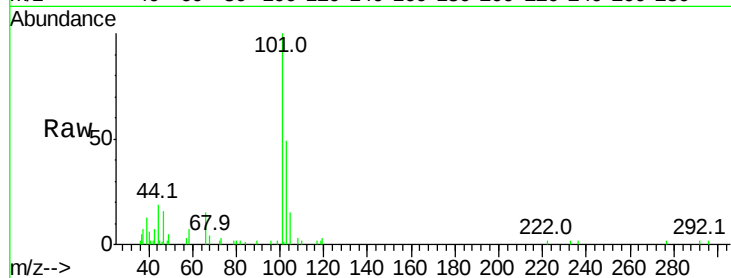




#11
 Trichlorofluoromethane
 Concen: 0.076 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. 0.01 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

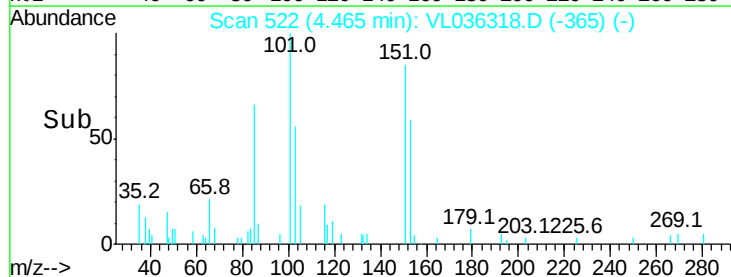
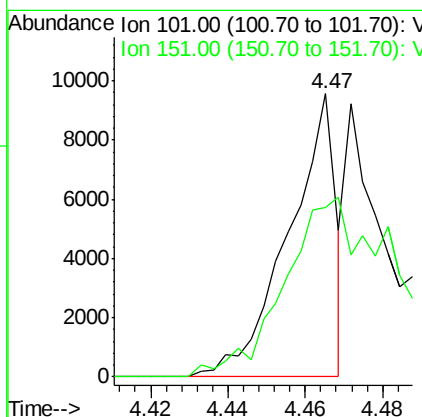
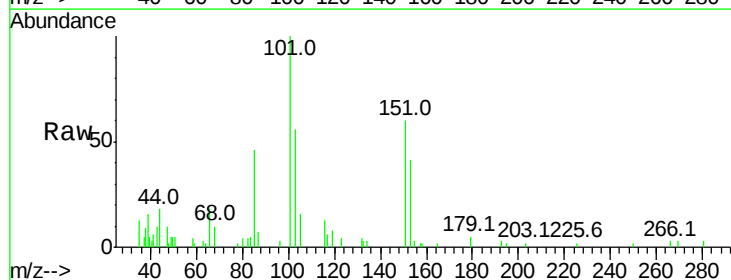
Instrument :
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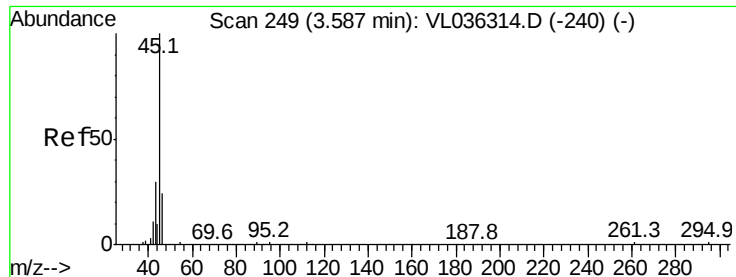
Tgt Ion:101 Resp: 15942
 Ion Ratio Lower Upper
 101 100
 103 47.0 52.9 79.3#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.064 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. 0.00 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

Tgt Ion:101 Resp: 8088
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.2 87.4#





#13

Ethanol

Concen: 0.033 ppbv

RT: 3.59 min Scan# 250

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

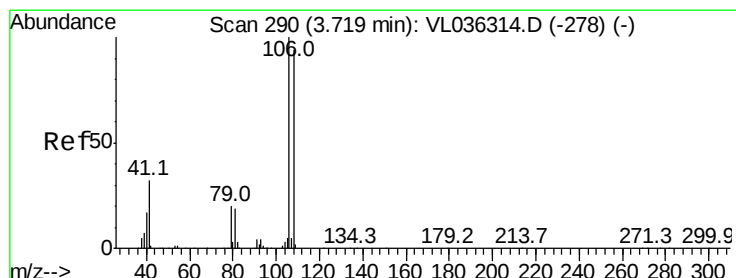
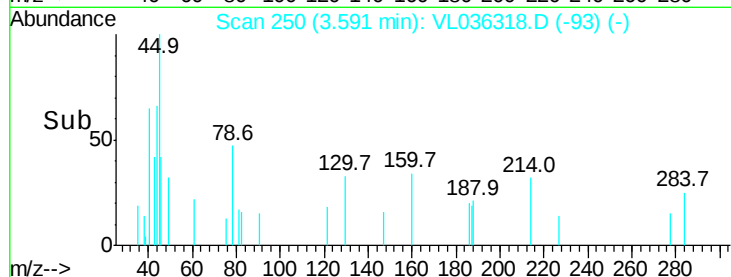
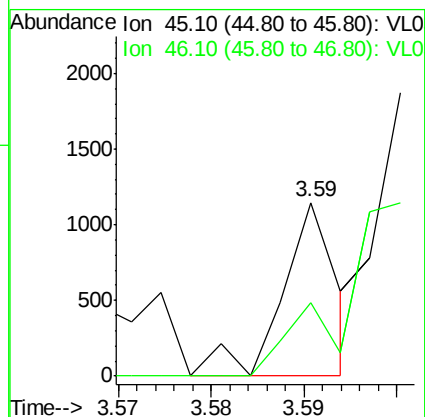
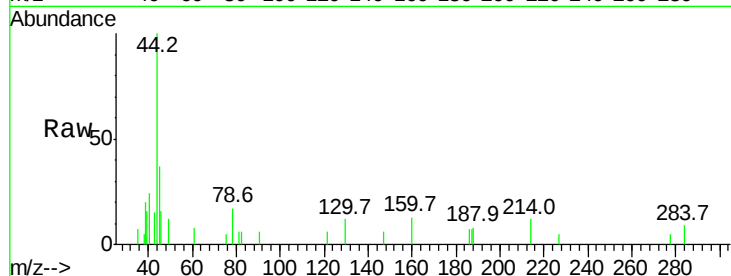
VSTDIC0.1

Tgt Ion: 45 Resp: 466

Ion Ratio Lower Upper

45 100

46 0.0 17.7 70.7#



#14

Bromoethene

Concen: 0.101 ppbv

RT: 3.73 min Scan# 292

Delta R.T. 0.01 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

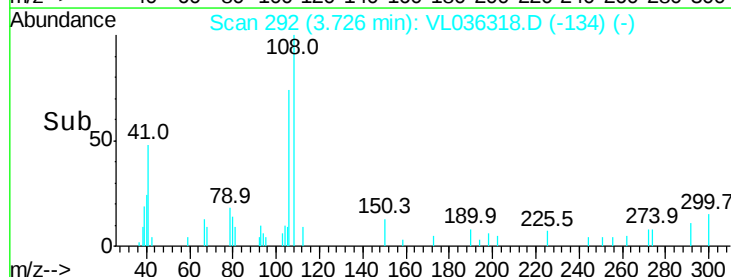
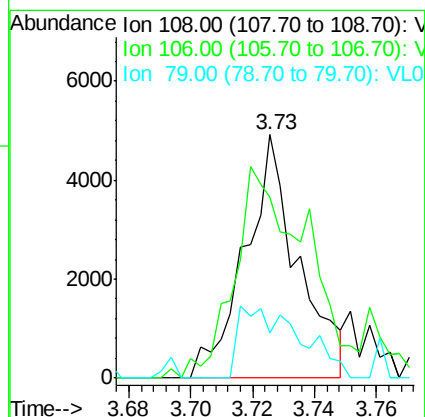
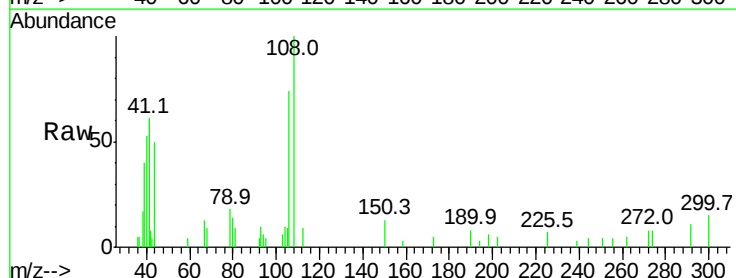
Tgt Ion: 108 Resp: 5857

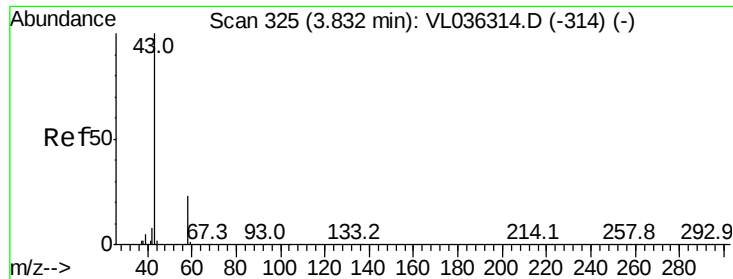
Ion Ratio Lower Upper

108 100

106 142.1 89.8 134.8#

79 35.8 17.1 25.7#





#15

Acetone

Concen: 0.210 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

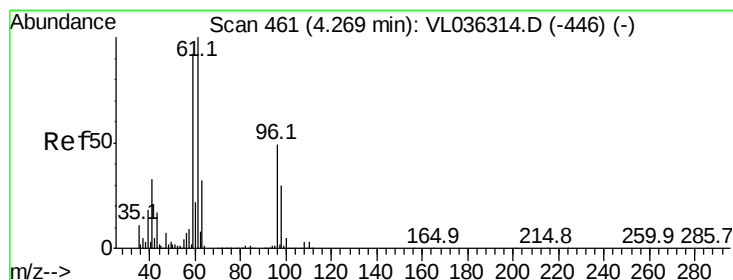
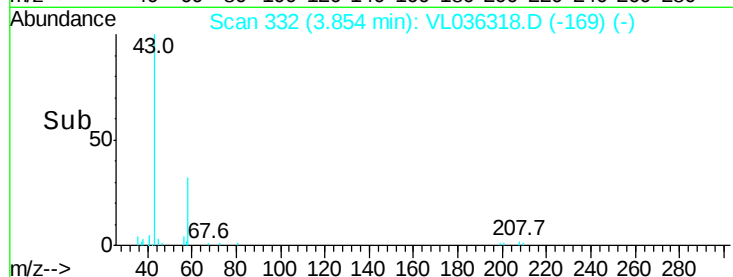
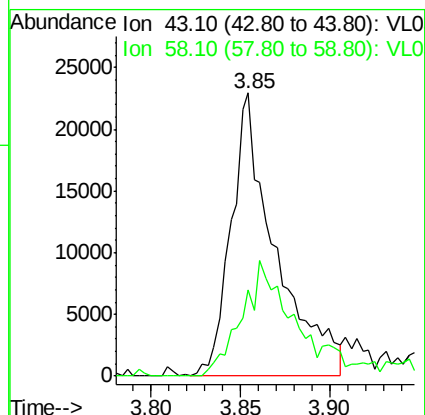
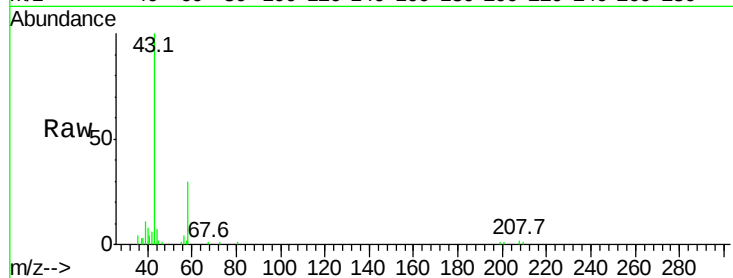
VSTDIC0.1

Tgt Ion: 43 Resp: 39593

Ion Ratio Lower Upper

43 100

58 50.6 20.3 30.5#



#18

1,1-Dichloroethene

Concen: 0.069 ppbv

RT: 4.27 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

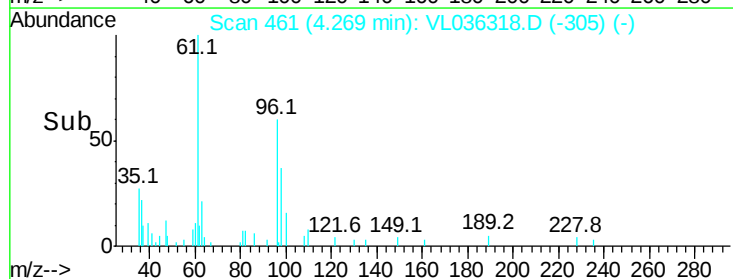
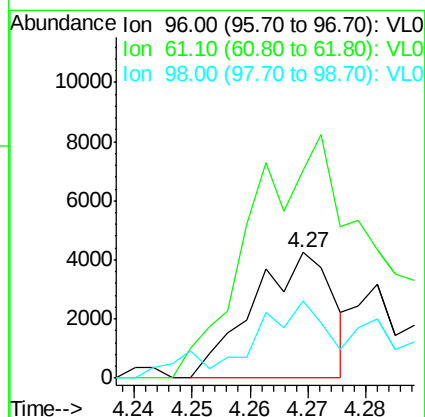
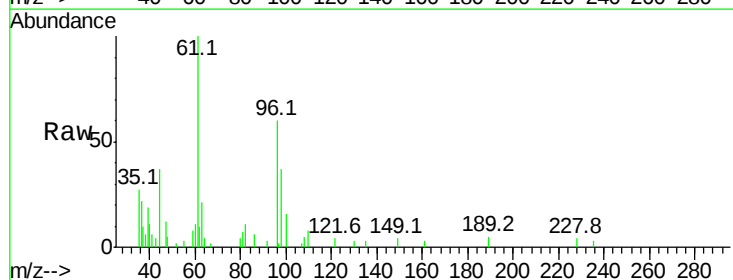
Tgt Ion: 96 Resp: 4078

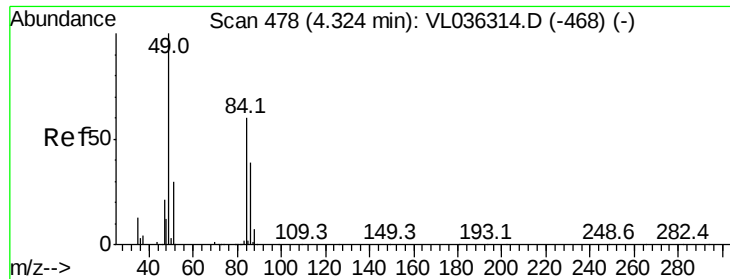
Ion Ratio Lower Upper

96 100

61 141.2 162.5 243.7#

98 39.9 48.5 72.7#

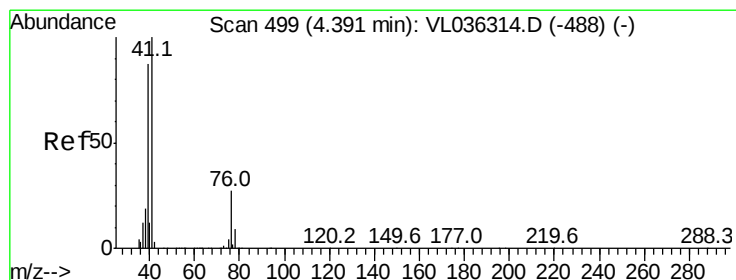
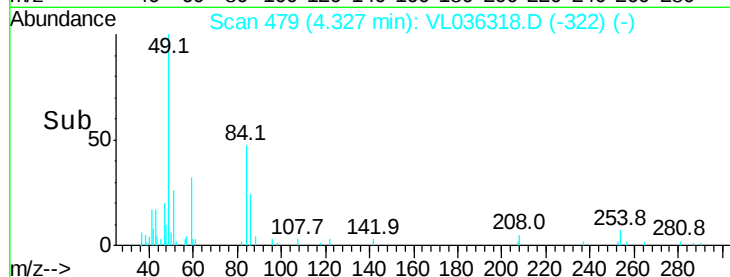
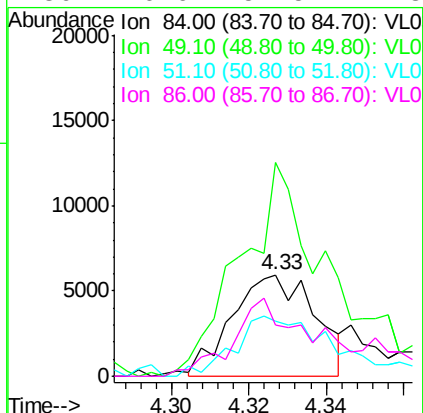
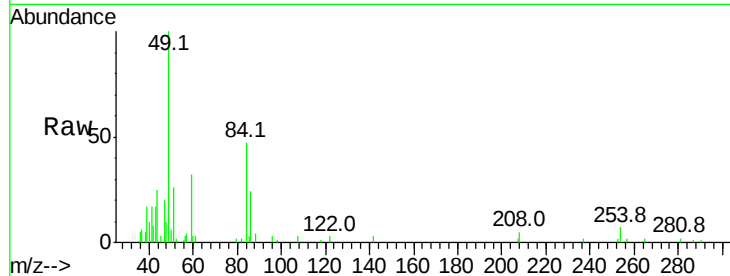




#20
Methylene Chloride
Concen: 0.147 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL036318.D
Acq: 10 Feb 2021 14:01

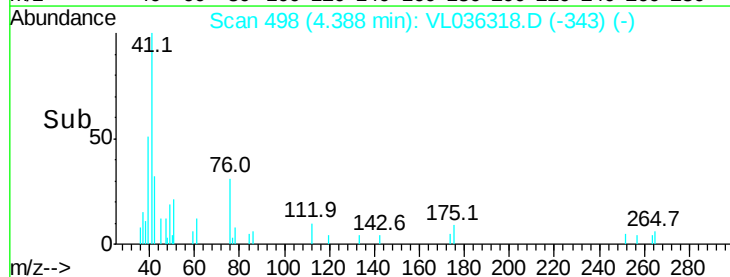
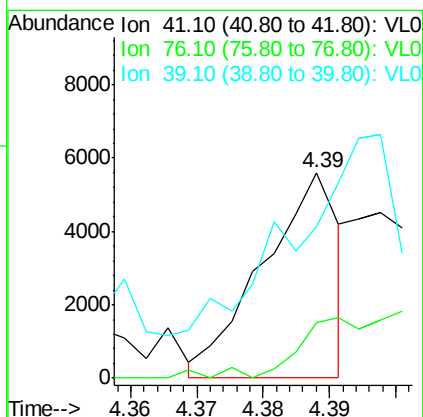
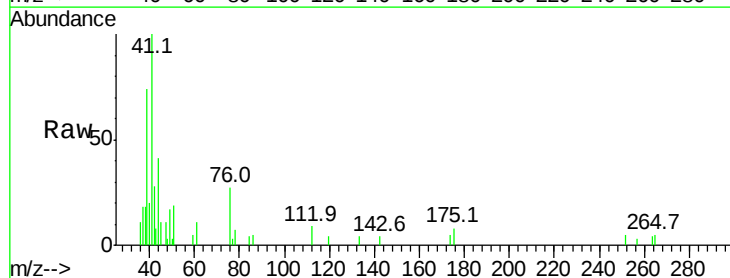
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

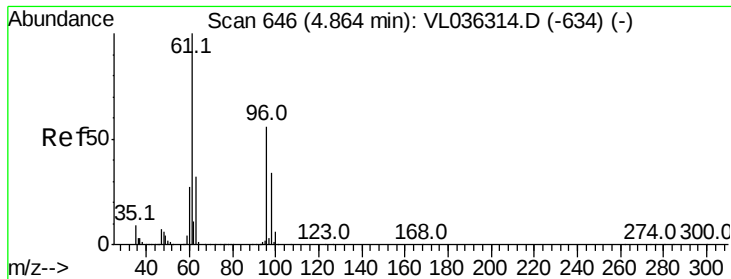
Tgt Ion: 84 Resp: 8832
Ion Ratio Lower Upper
84 100
49 200.9 133.8 200.8#
51 45.4 41.4 62.0
86 46.6 51.5 77.3#



#21
Allyl Chloride
Concen: 0.043 ppbv
RT: 4.39 min Scan# 498
Delta R.T. -0.00 min
Lab File: VL036318.D
Acq: 10 Feb 2021 14:01

Tgt Ion: 41 Resp: 4446
Ion Ratio Lower Upper
41 100
76 0.0 22.0 33.0#
39 0.0 70.2 105.2#





#22

trans-1,2-Dichloroethene

Concen: 0.060 ppbv

RT: 4.87 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

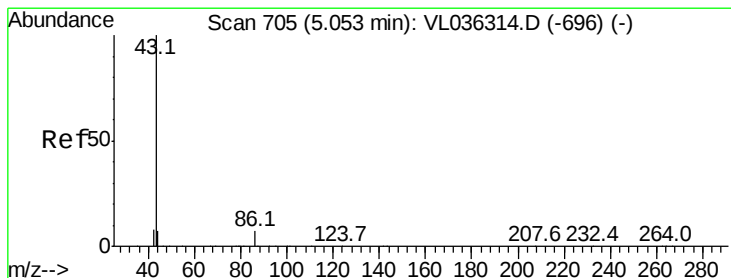
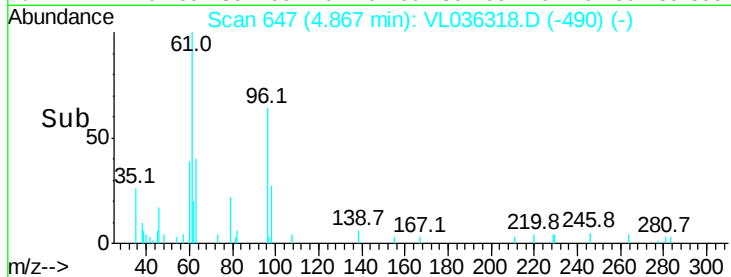
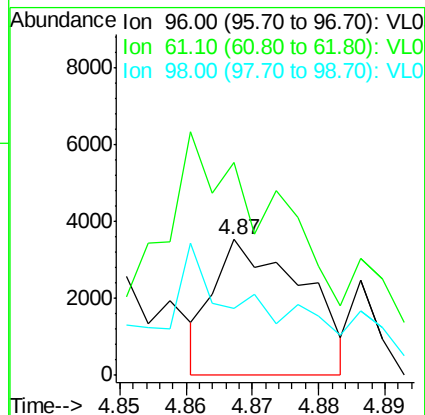
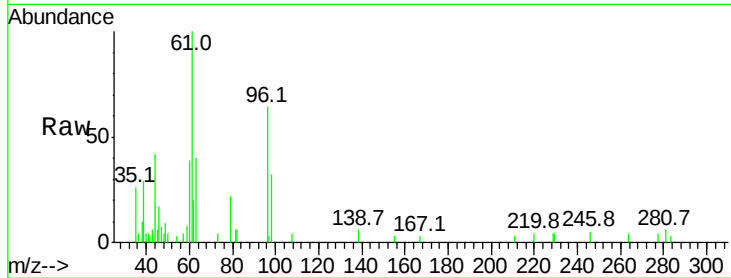
Tgt Ion: 96 Resp: 3296

Ion Ratio Lower Upper

96 100

61 133.2 143.7 215.5#

98 27.7 48.5 72.7#



#23

Vinyl Acetate

Concen: 0.036 ppbv

RT: 5.05 min Scan# 705

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Tgt Ion: 43 Resp: 8151

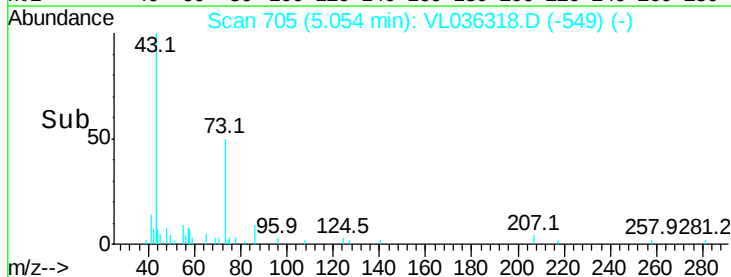
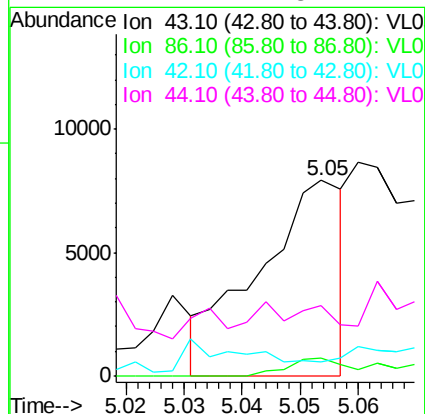
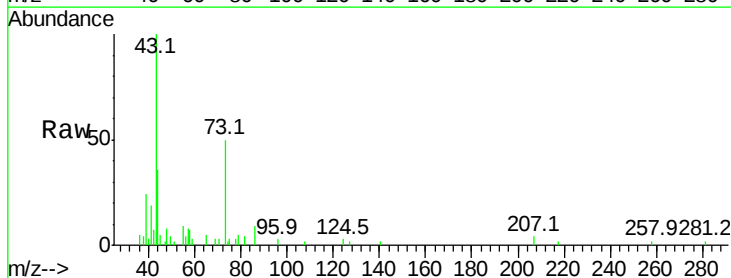
Ion Ratio Lower Upper

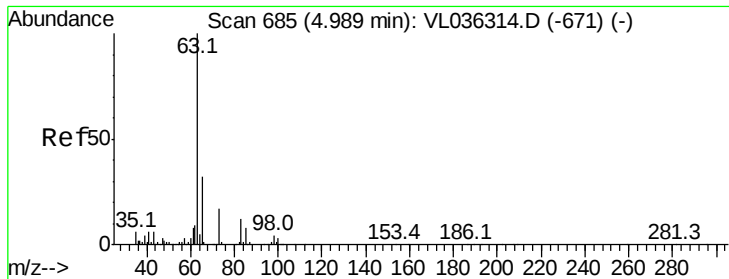
43 100

86 13.2 4.8 7.2#

42 0.0 7.4 11.0#

44 14.7 4.8 7.2#





#24

1,1-Dichloroethane

Concen: 0.058 ppbv

RT: 4.99 min Scan# 685

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

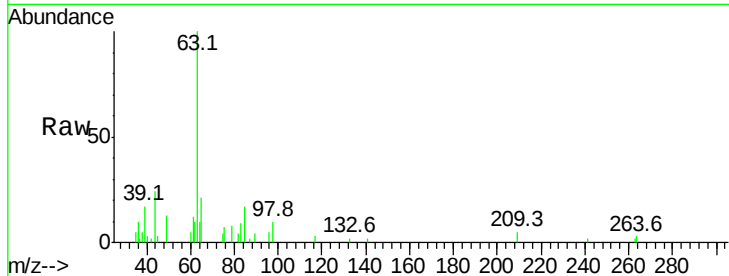
Tgt Ion: 63 Resp: 9665

Ion Ratio Lower Upper

63 100

98 10.0 2.0 6.0#

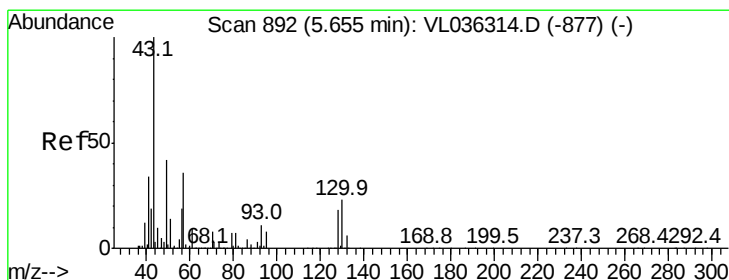
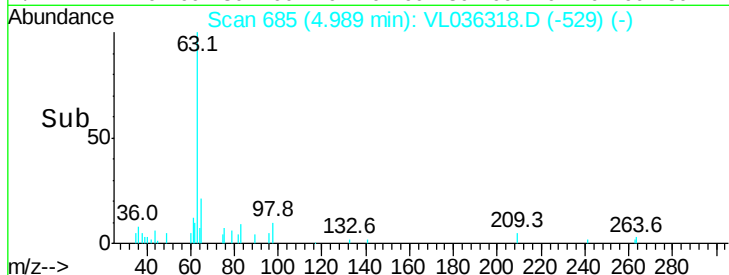
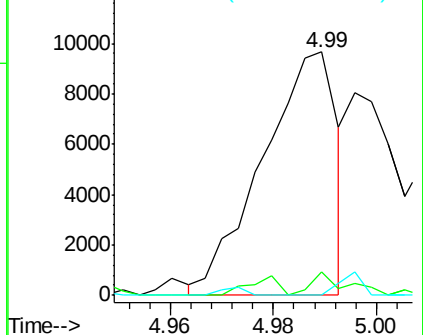
100 0.0 1.5 4.4#



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: 0.050 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Tgt Ion: 43 Resp: 19098

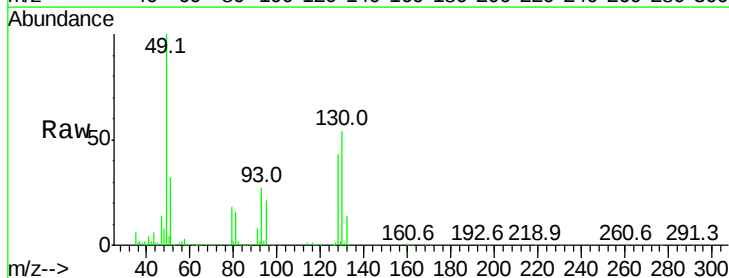
Ion Ratio Lower Upper

43 100

45 24.5 8.3 12.5#

61 0.0 7.3 10.9#

70 0.0 5.4 8.0#

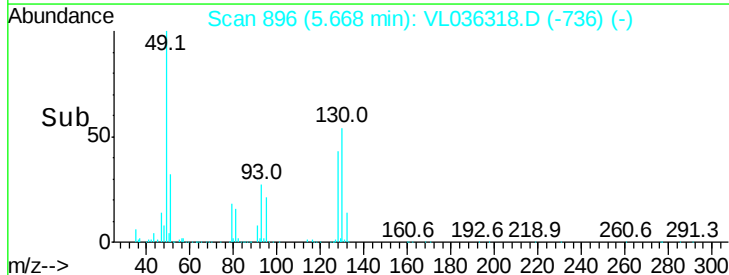
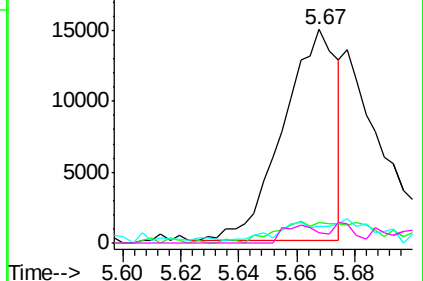


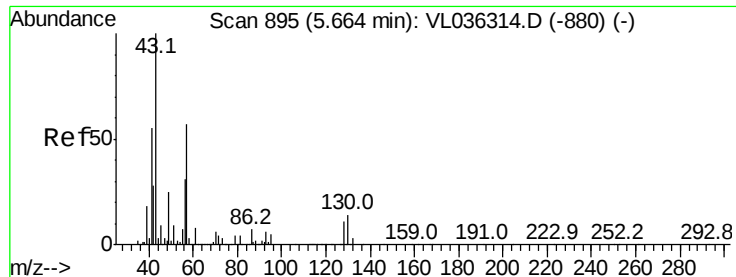
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.054 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 57 Resp: 8590

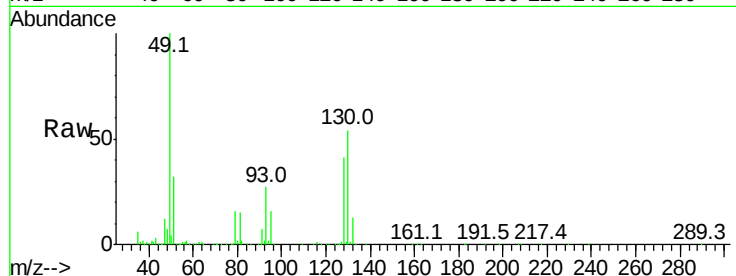
Ion Ratio Lower Upper

57 100

41 0.0 81.7 122.5#

43 0.0 199.1 298.7#

56 0.0 44.0 66.0#

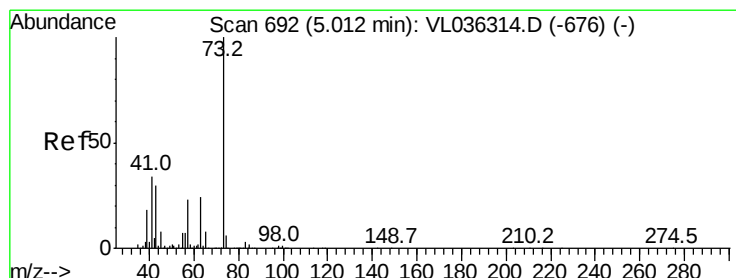
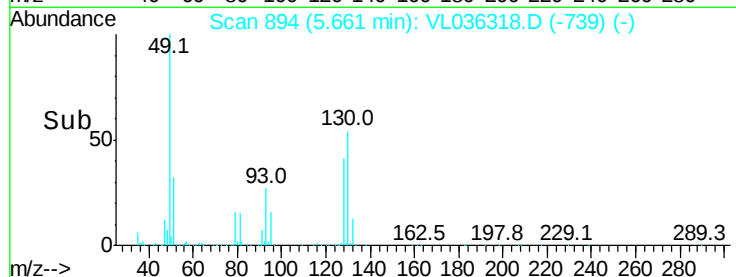
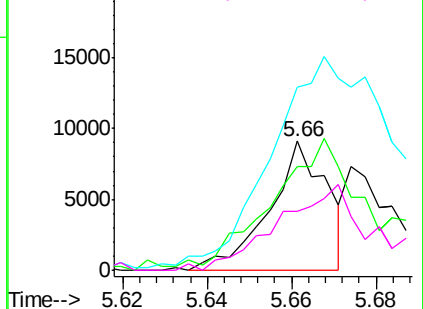


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.038 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.03 min

Lab File: VL036318.D

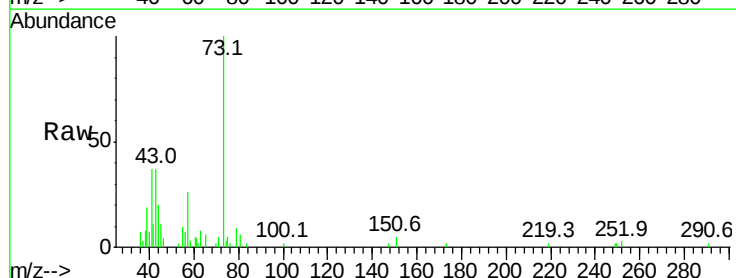
Acq: 10 Feb 2021 14:01

Tgt Ion: 73 Resp: 8105

Ion Ratio Lower Upper

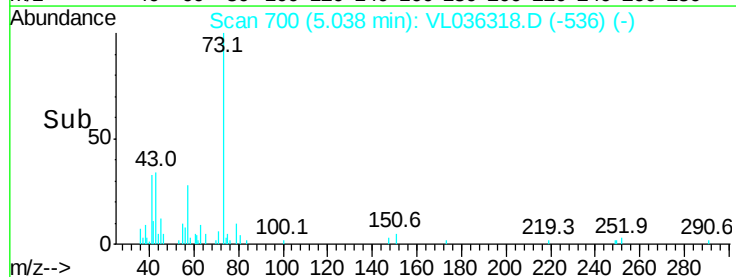
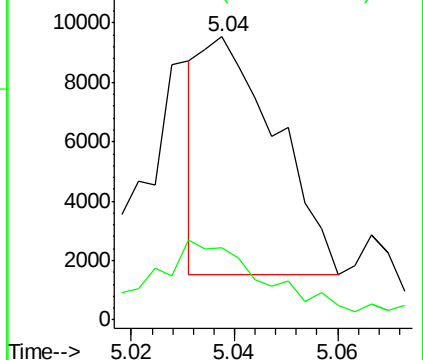
73 100

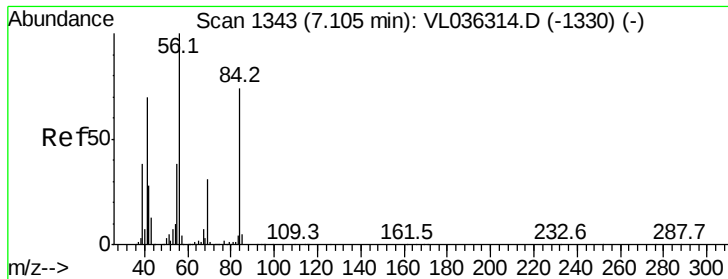
57 63.5 19.2 28.8#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

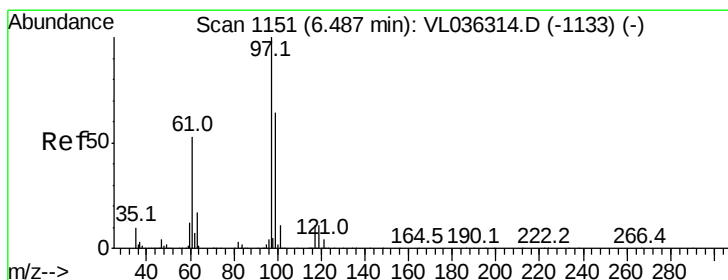
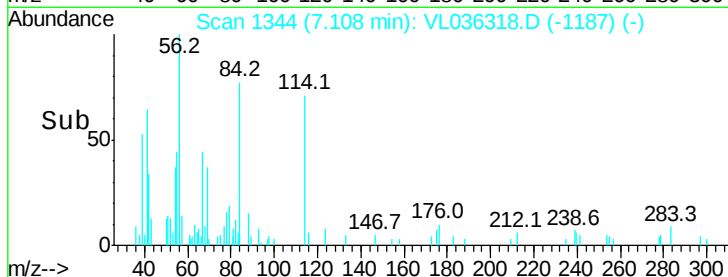
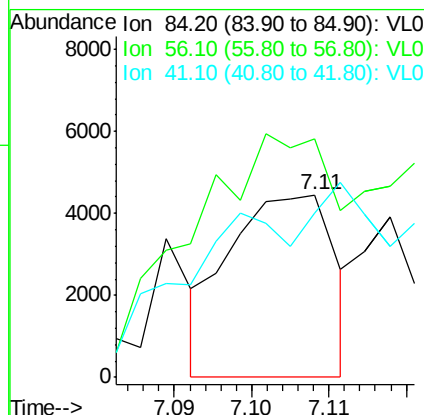
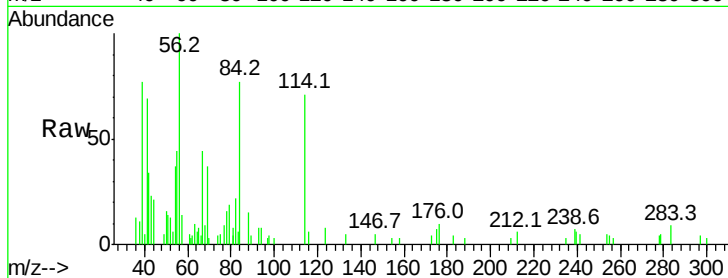




#30
Cyclohexane
Concen: 0.035 ppbv
RT: 7.11 min Scan# 1344
Delta R.T. 0.00 min
Lab File: VL036318.D
Acq: 10 Feb 2021 14:01

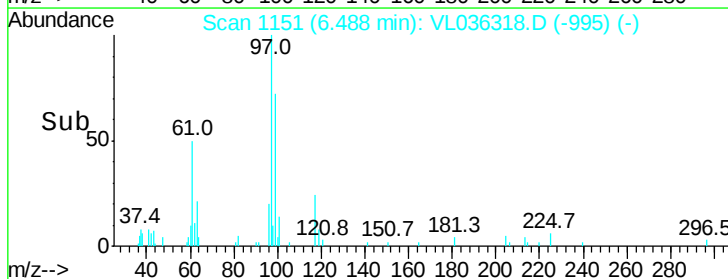
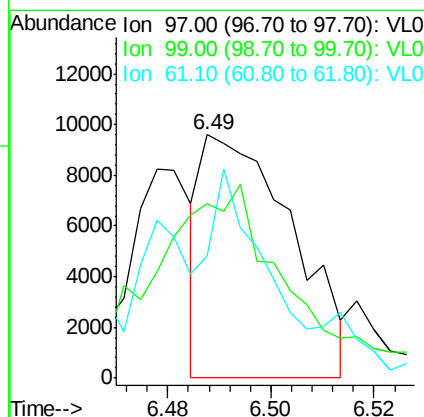
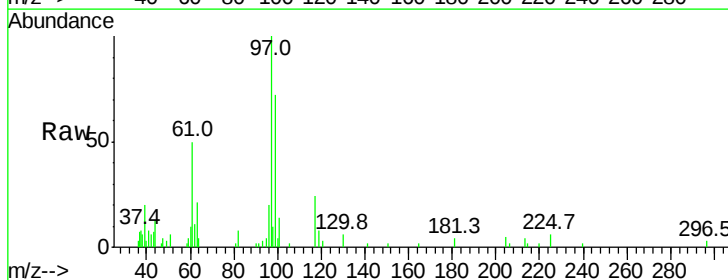
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

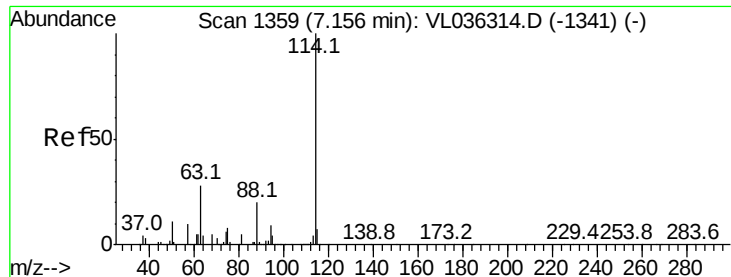
Tgt Ion: 84 Resp: 4175
Ion Ratio Lower Upper
84 100
56 0.0 120.2 180.4#
41 319.3 79.7 119.5#



#32
1,1,1-Trichloroethane
Concen: 0.053 ppbv
RT: 6.49 min Scan# 1151
Delta R.T. 0.00 min
Lab File: VL036318.D
Acq: 10 Feb 2021 14:01

Tgt Ion: 97 Resp: 11669
Ion Ratio Lower Upper
97 100
99 126.8 52.2 78.4#
61 119.5 43.3 64.9#

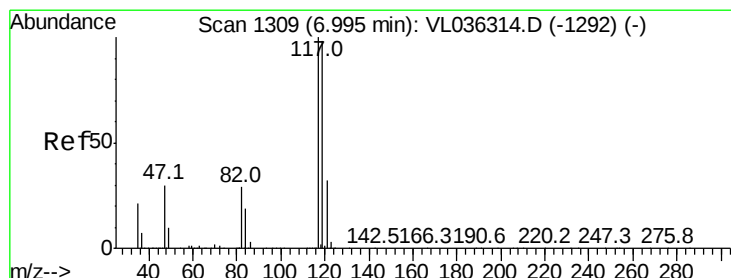
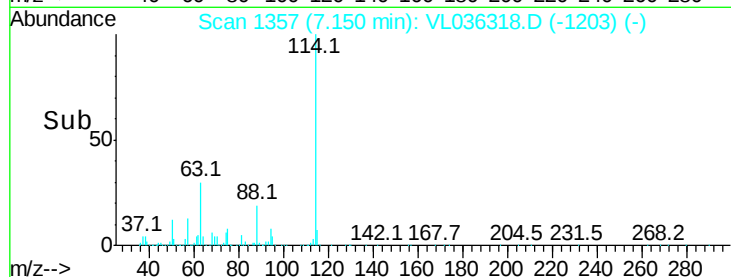
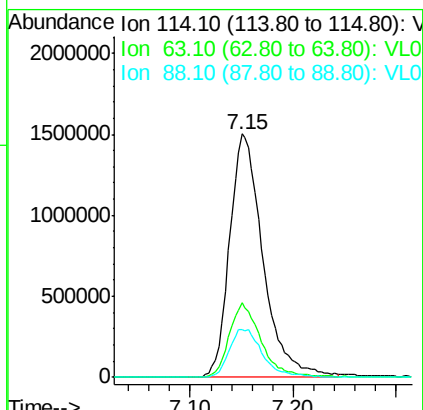
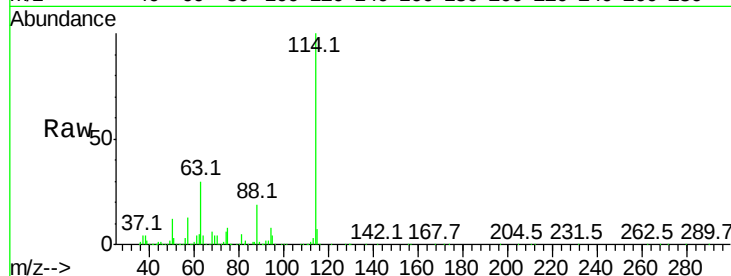




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

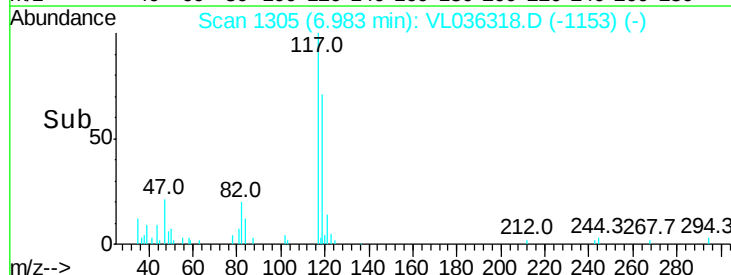
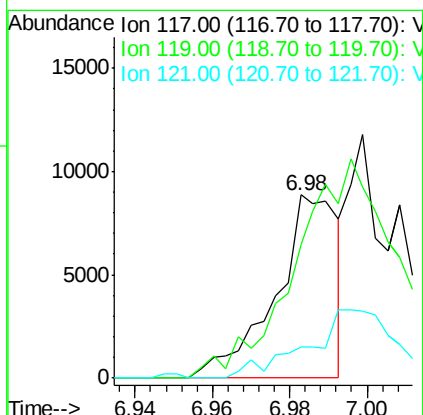
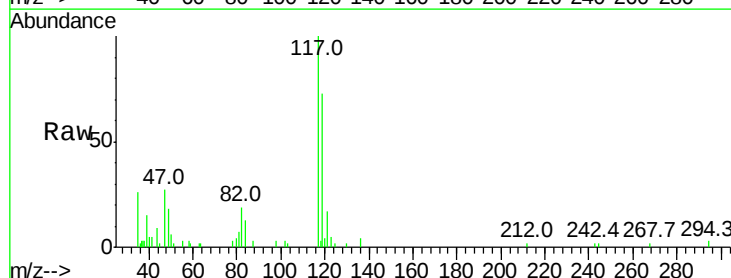
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

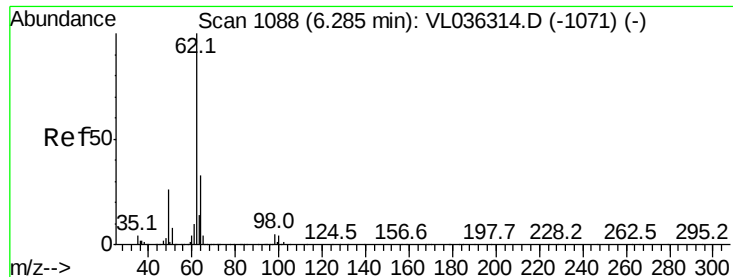
Tgt Ion:114 Resp: 3387279
 Ion Ratio Lower Upper
 114 100
 63 29.8 24.1 36.1
 88 20.2 16.0 24.0



#35
 Carbon Tetrachloride
 Concen: 0.046 ppbv
 RT: 6.98 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

Tgt Ion:117 Resp: 9902
 Ion Ratio Lower Upper
 117 100
 119 76.8 78.1 117.1#
 121 16.9 25.8 38.8#

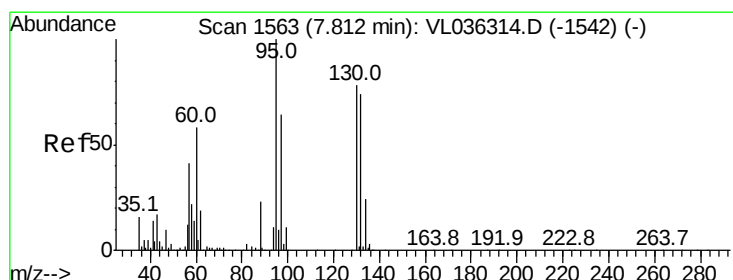
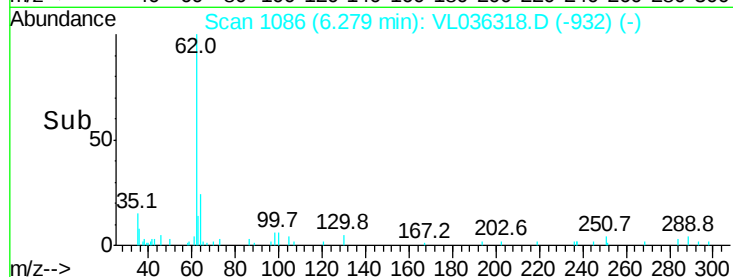
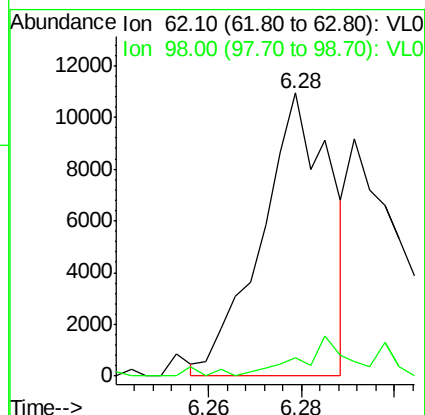
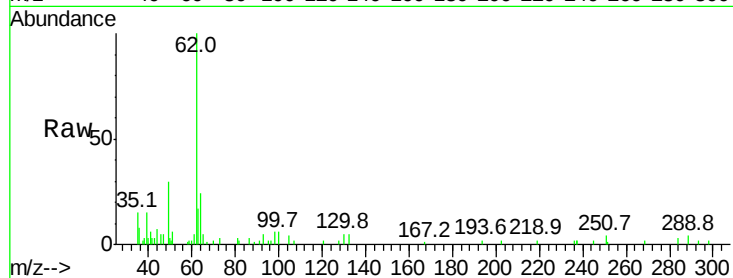




#37
 1,2-Dichloroethane
 Concen: 0.060 ppbv
 RT: 6.28 min Scan# 1086
 Delta R.T. -0.01 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

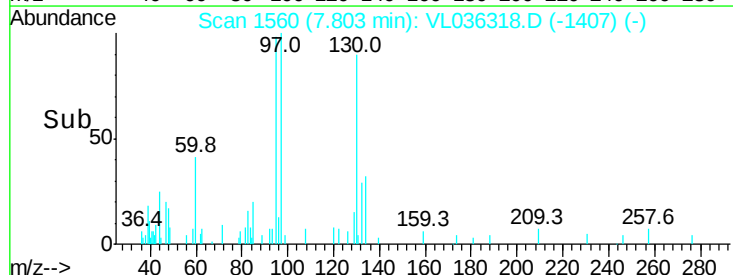
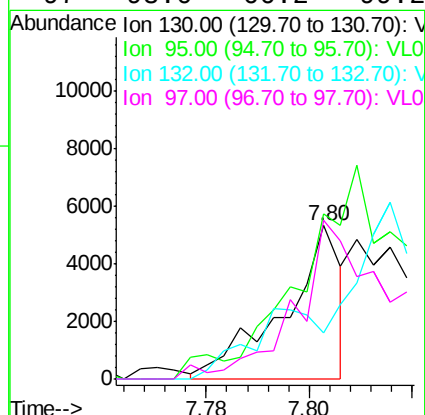
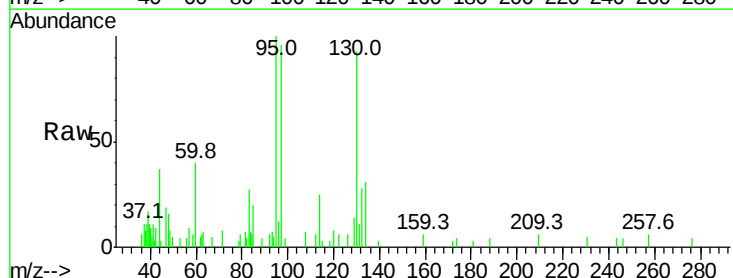
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

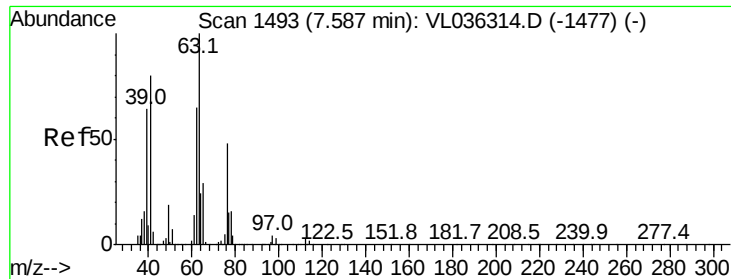
Tgt Ion: 62 Resp: 11271
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.5 6.7#



#38
 Trichloroethene
 Concen: 0.036 ppbv
 RT: 7.80 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

Tgt Ion: 130 Resp: 4098
 Ion Ratio Lower Upper
 130 100
 95 96.5 102.8 154.2#
 132 31.3 75.7 113.5#
 97 98.0 66.2 99.2





#39

1,2-Dichloropropane

Concen: 7.677 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCO.1

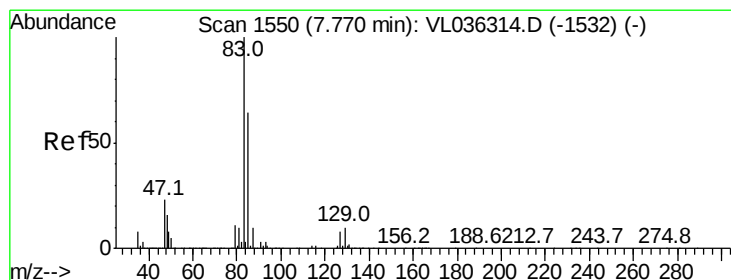
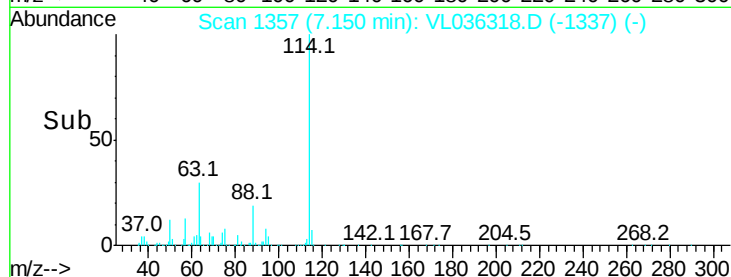
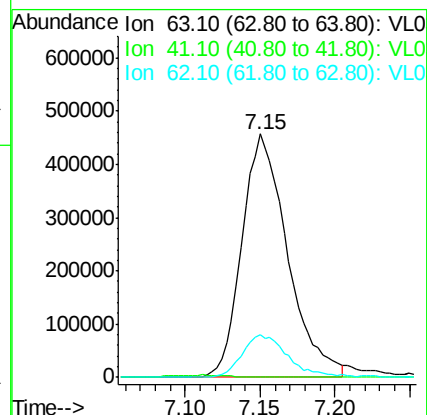
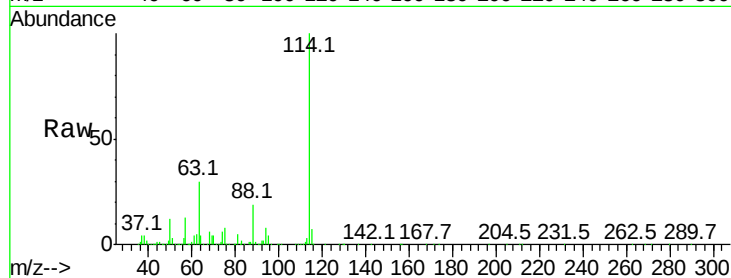
Tgt Ion: 63 Resp: 967407

Ion Ratio Lower Upper

63 100

41 0.2 63.8 95.6#

62 17.7 52.3 78.5#



#42

Bromodichloromethane

Concen: 0.055 ppbv

RT: 7.77 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

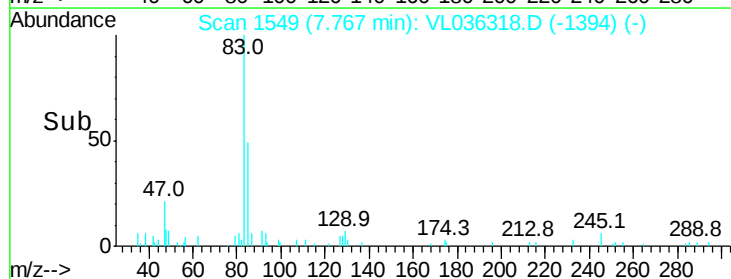
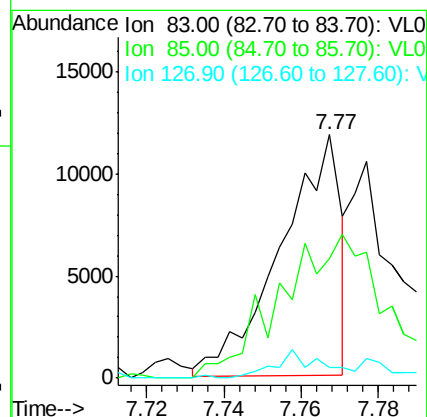
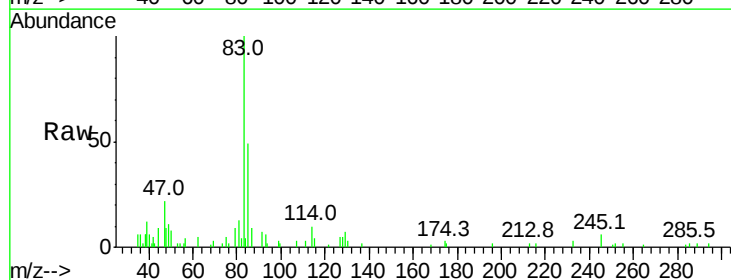
Tgt Ion: 83 Resp: 12800

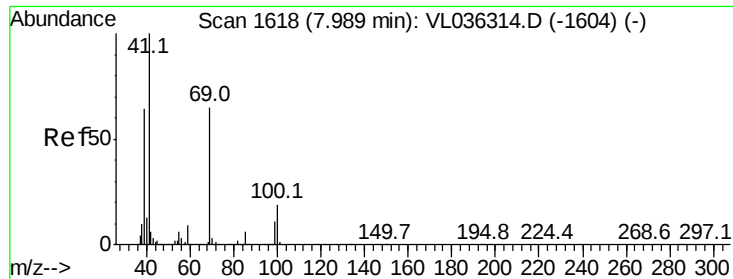
Ion Ratio Lower Upper

83 100

85 50.9 51.1 76.7#

127 4.8 6.3 9.5#





#43

Methyl Methacrylate

Concen: 0.049 ppbv

RT: 8.00 min Scan# 1622

Delta R.T. 0.01 min

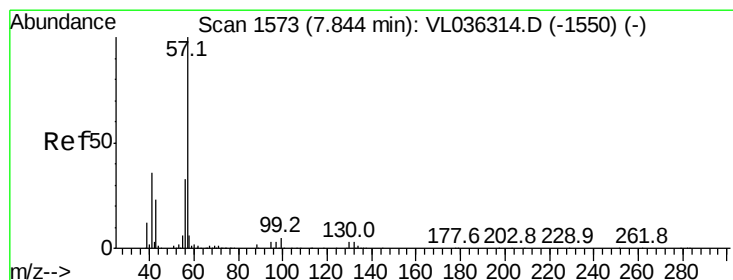
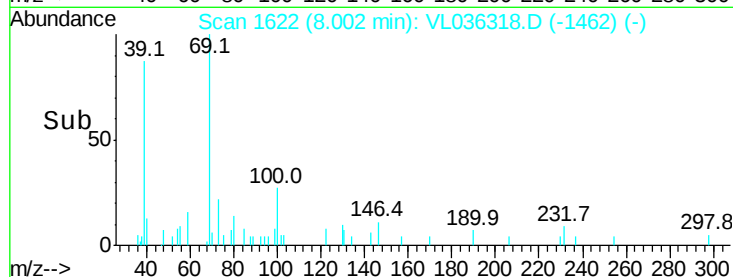
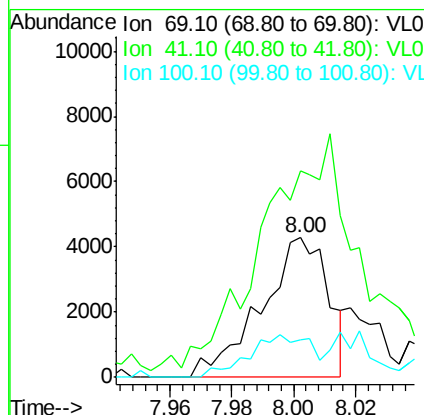
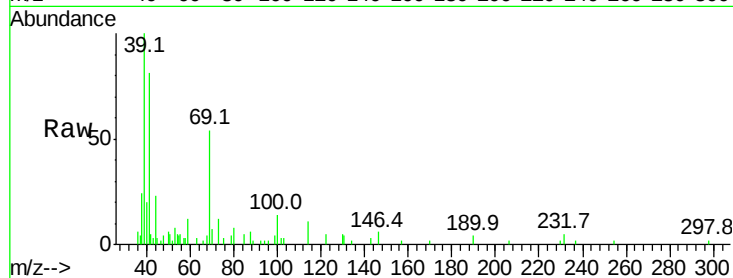
Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 69 Resp: 6444

Ion	Ratio	Lower	Upper
69	100		
41	0.0	126.5	189.7#
100	0.0	23.1	34.7#



#44

2,2,4-Trimethylpentane

Concen: 0.042 ppbv

RT: 7.84 min Scan# 1573

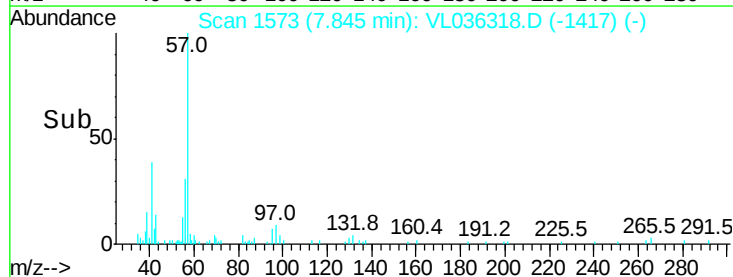
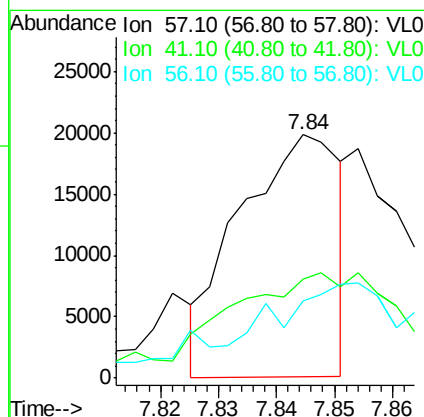
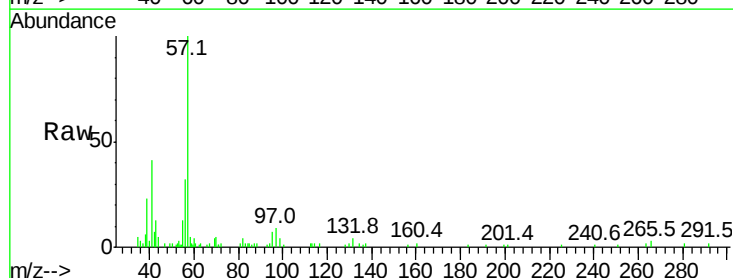
Delta R.T. 0.00 min

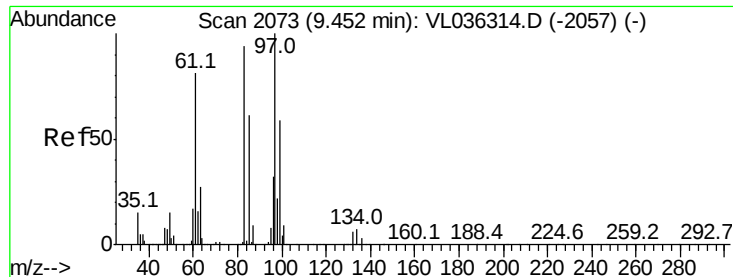
Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Tgt Ion: 57 Resp: 23840

Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.8	43.2#
56	0.0	25.8	38.6#

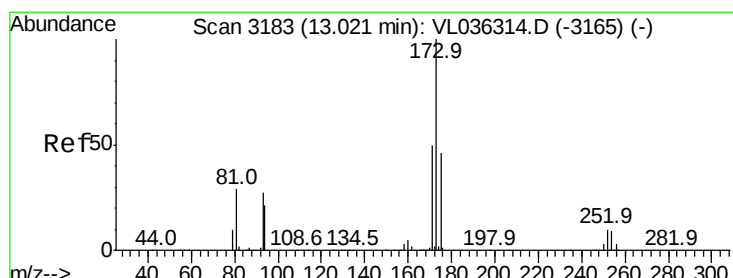
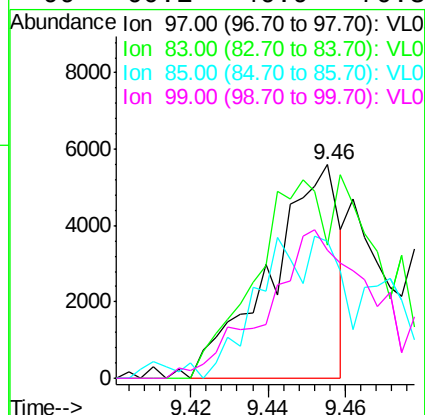
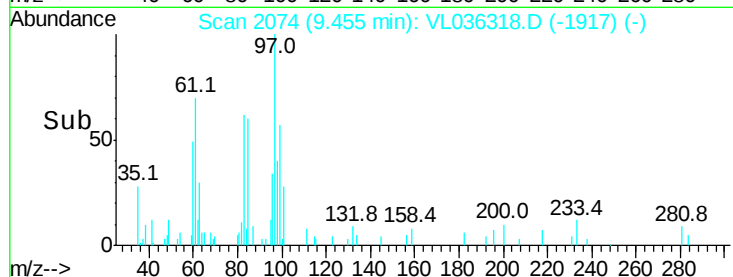
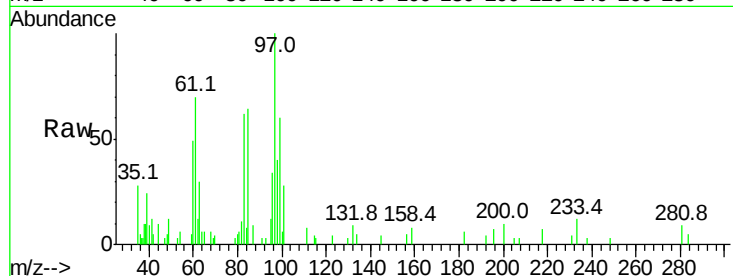




#47
 1,1,2-Trichloroethane
 Concen: 0.057 ppbv
 RT: 9.46 min Scan# 2074
 Delta R.T. 0.00 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

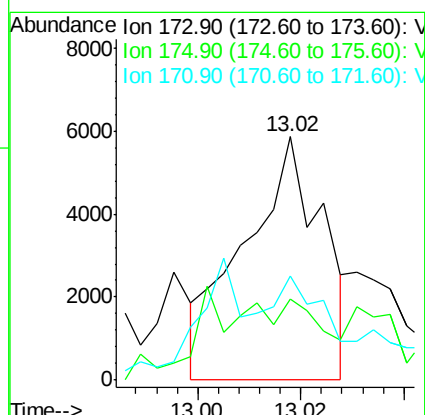
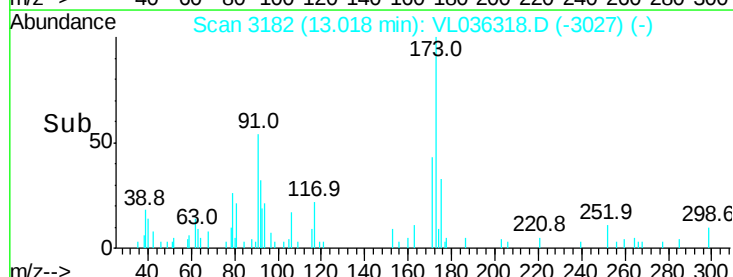
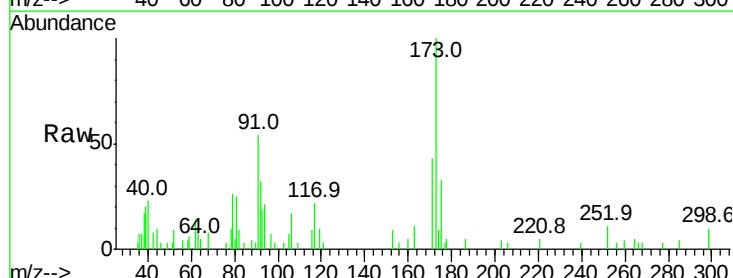
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

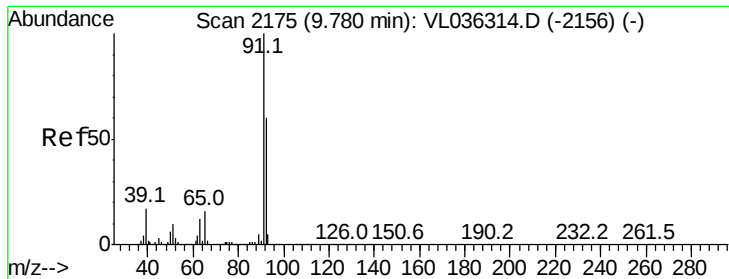
Tgt Ion: 97 Resp: 6885
 Ion Ratio Lower Upper
 97 100
 83 66.4 75.4 113.0#
 85 60.9 48.9 73.3
 99 60.1 46.9 70.3



#49
 Bromoform
 Concen: 0.042 ppbv
 RT: 13.02 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

Tgt Ion: 173 Resp: 6173
 Ion Ratio Lower Upper
 173 100
 175 0.0 40.2 60.2#
 171 0.0 43.4 65.2#





#53

Toluene

Concen: 0.066 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.01 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

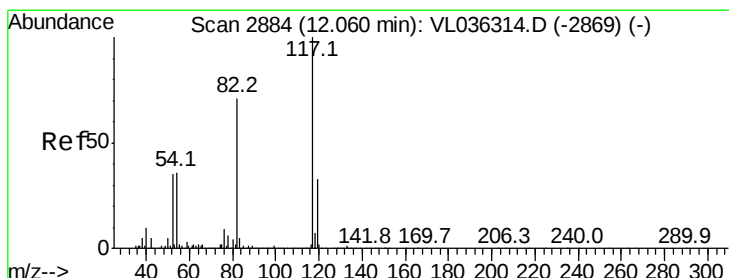
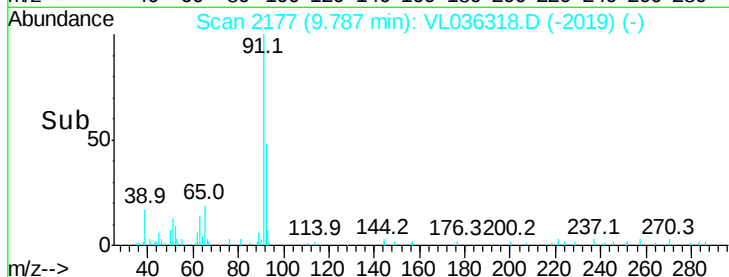
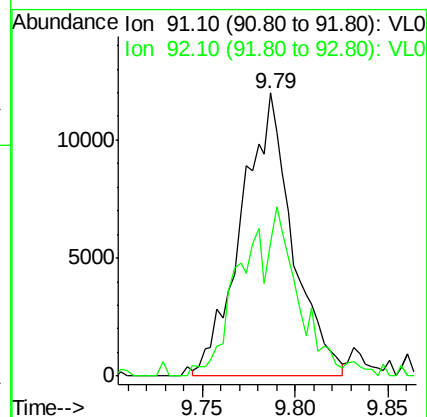
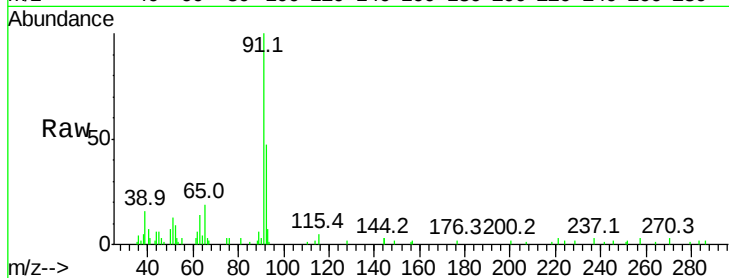
VSTDIC0.1

Tgt Ion: 91 Resp: 22936

Ion Ratio Lower Upper

91 100

92 67.6 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

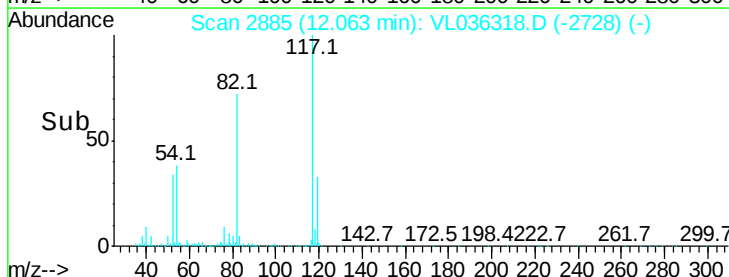
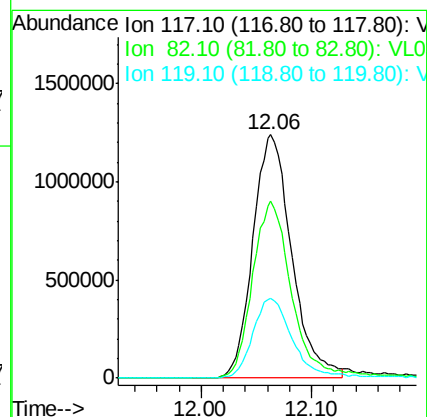
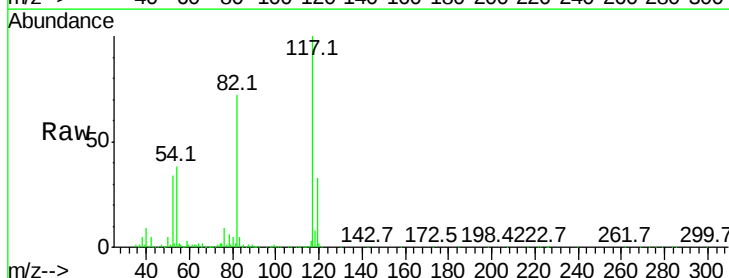
Tgt Ion: 117 Resp: 3025221

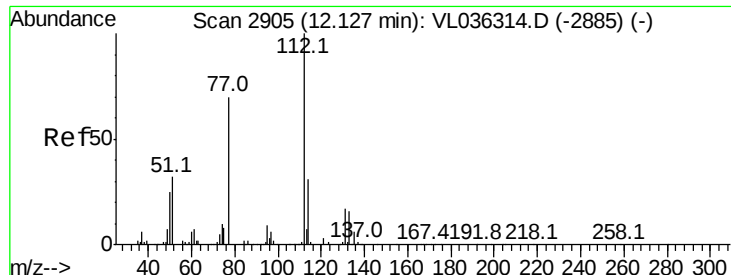
Ion Ratio Lower Upper

117 100

82 75.2 59.1 88.7

119 34.1 46.3 69.5#





#57

Chlorobenzene

Concen: 0.048 ppbv

RT: 12.13 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

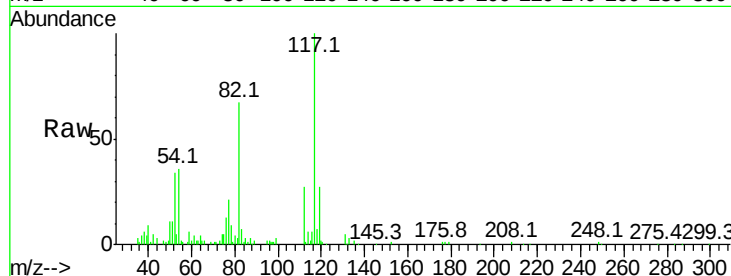
Tgt Ion: 112 Resp: 11408

Ion Ratio Lower Upper

112 100

77 69.5 56.1 84.1

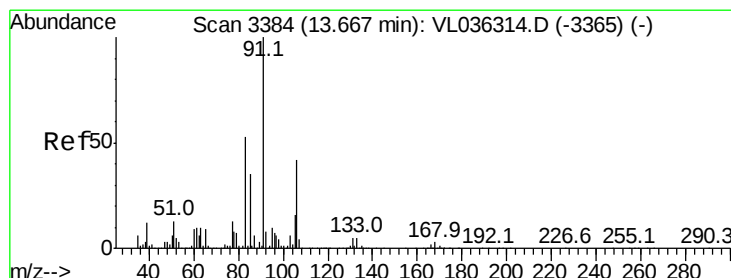
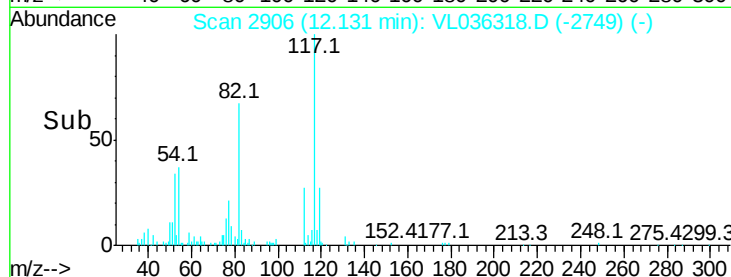
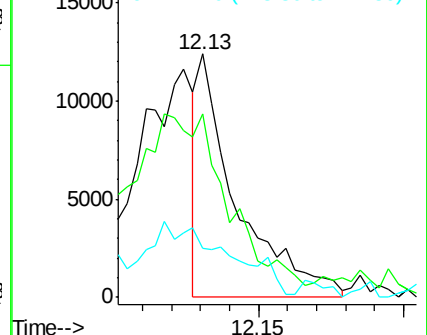
114 29.5 28.3 34.5



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#60

o-Xylene

Concen: 0.047 ppbv

RT: 13.67 min Scan# 3386

Delta R.T. 0.01 min

Lab File: VL036318.D

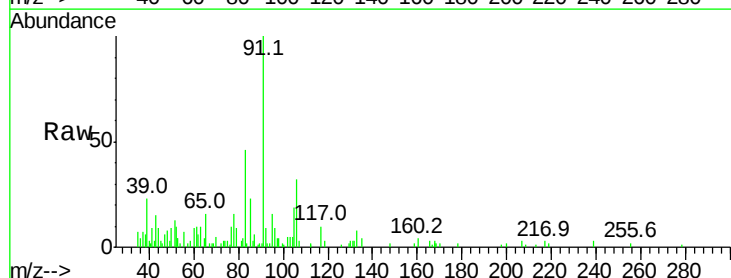
Acq: 10 Feb 2021 14:01

Tgt Ion: 91 Resp: 17458

Ion Ratio Lower Upper

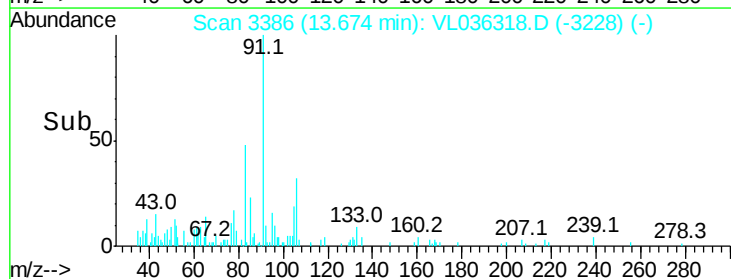
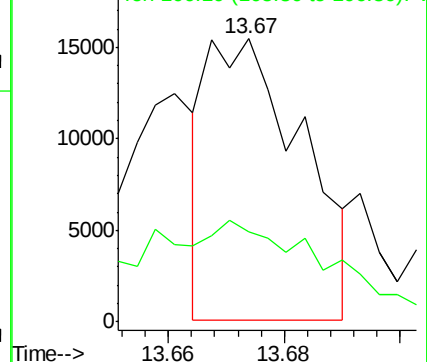
91 100

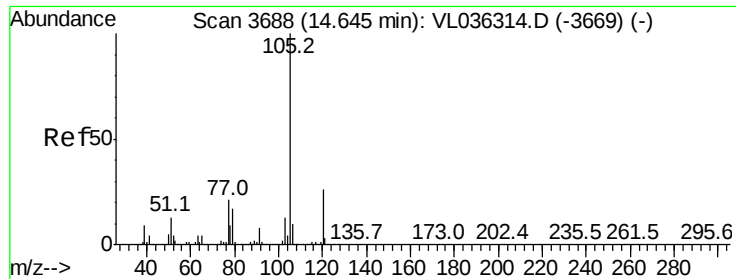
106 84.6 22.0 66.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#62

Isopropylbenzene

Concen: 0.044 ppbv

RT: 14.65 min Scan# 3689

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

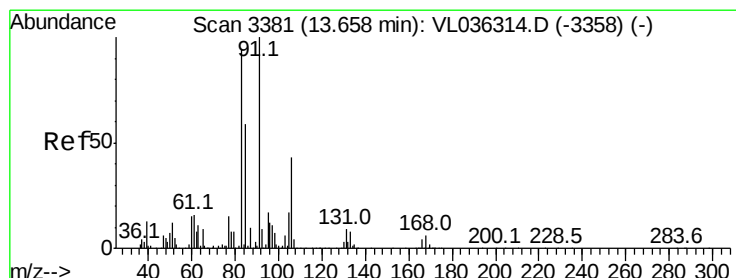
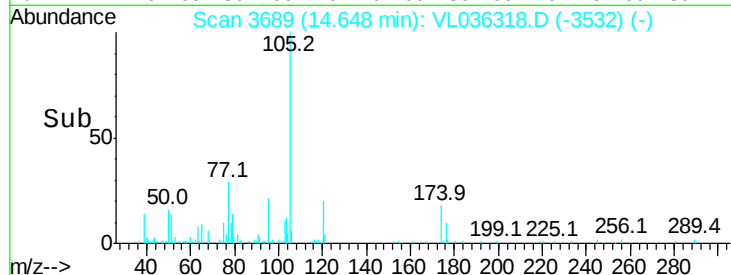
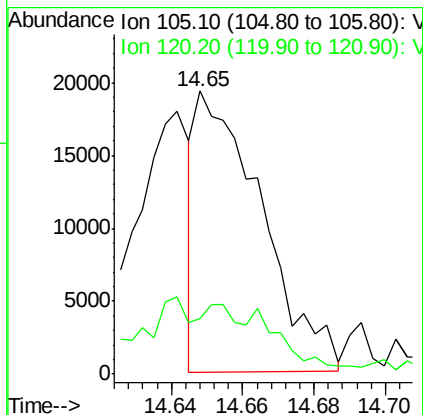
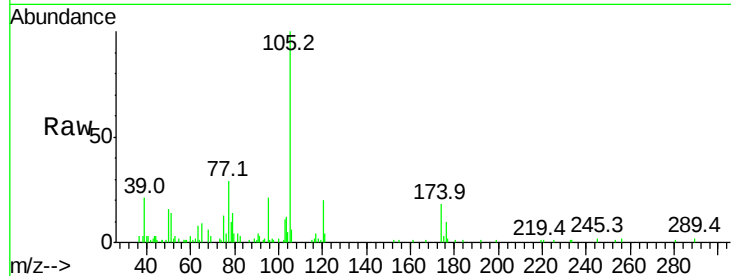
VSTDIC0.1

Tgt Ion:105 Resp: 24544

Ion Ratio Lower Upper

105 100

120 0.0 20.6 30.8#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.052 ppbv

RT: 13.66 min Scan# 3382

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

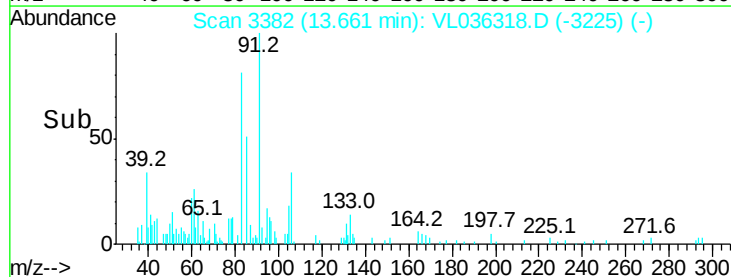
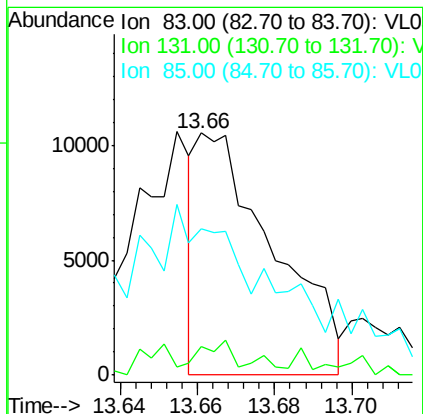
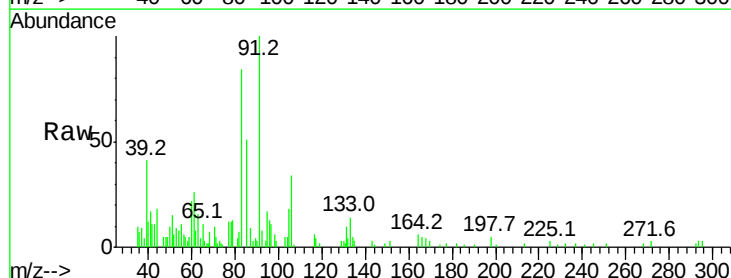
Tgt Ion: 83 Resp: 14518

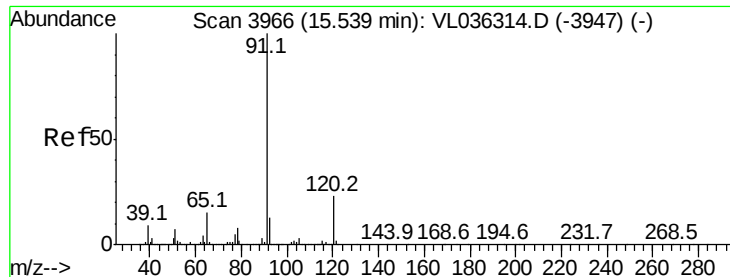
Ion Ratio Lower Upper

83 100

131 13.8 4.7 14.0

85 0.0 33.0 98.9#





#64

n-propylbenzene

Concen: 0.039 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. 0.01 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

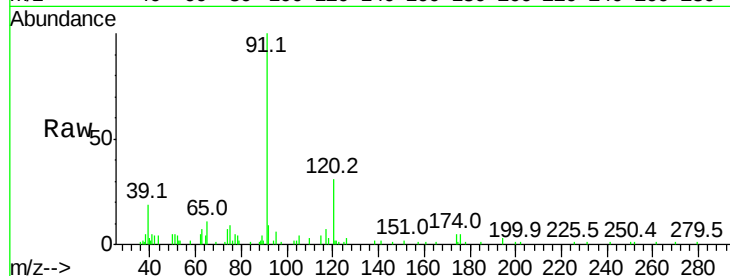
VSTDIC0.1

Tgt Ion:120 Resp: 5327

Ion Ratio Lower Upper

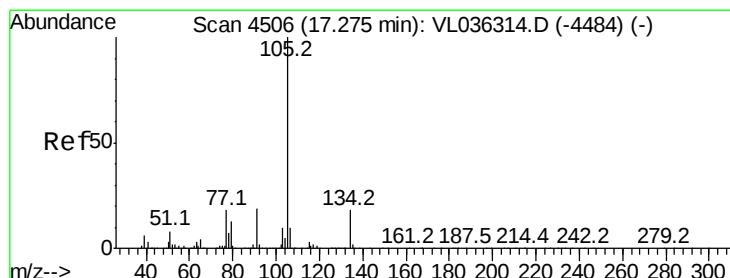
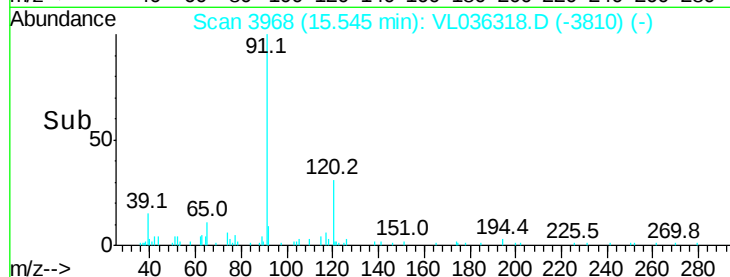
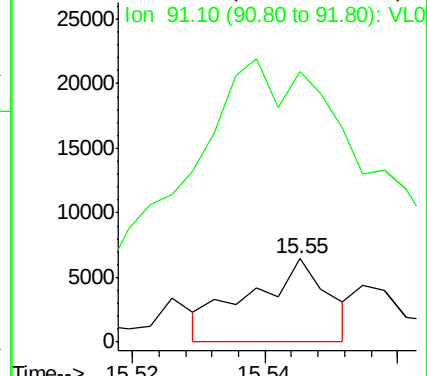
120 100

91 1062.0 387.2 580.8#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#67

sec-Butylbenzene

Concen: 0.056 ppbv

RT: 17.28 min Scan# 4508

Delta R.T. 0.01 min

Lab File: VL036318.D

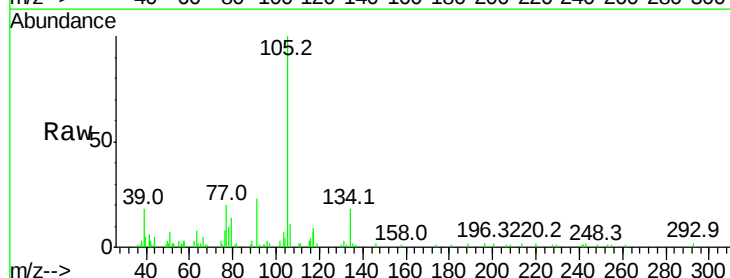
Acq: 10 Feb 2021 14:01

Tgt Ion:105 Resp: 38985

Ion Ratio Lower Upper

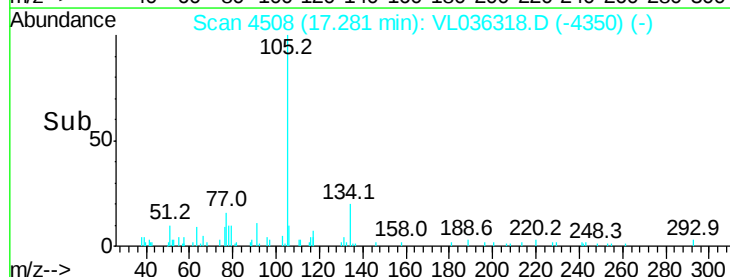
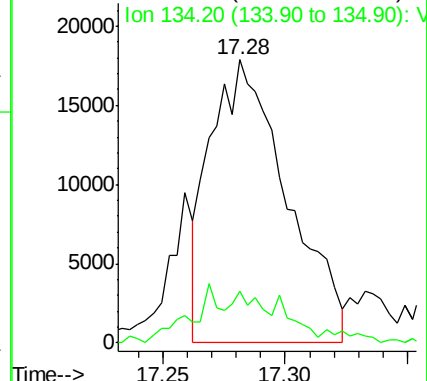
105 100

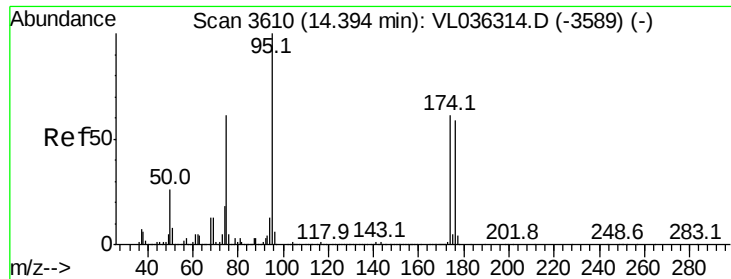
134 0.0 14.2 21.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

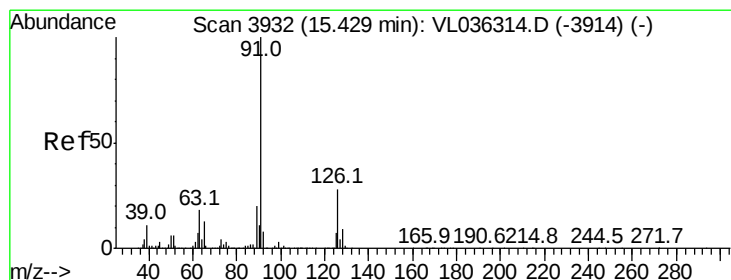
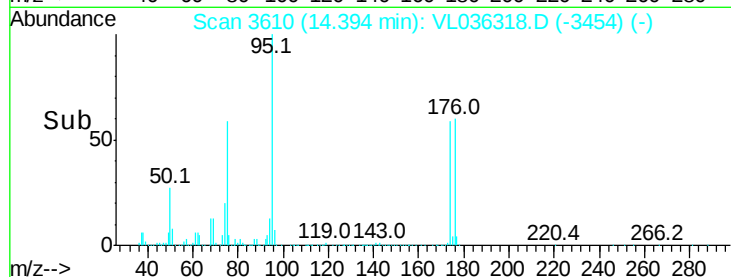
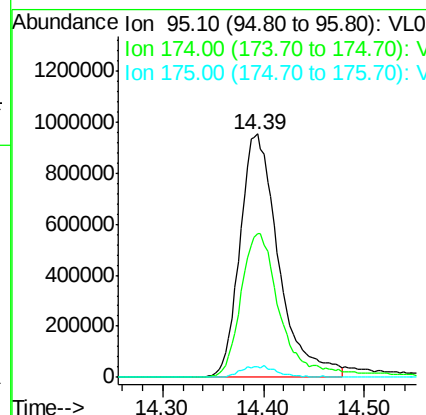
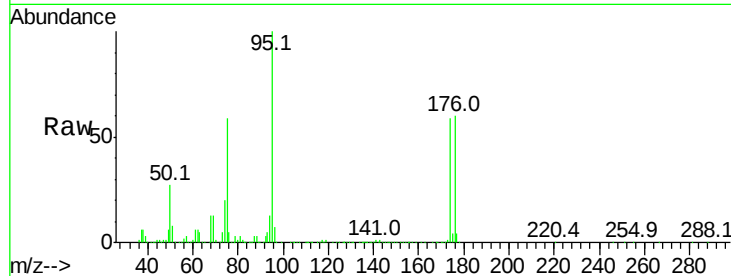




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.126 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

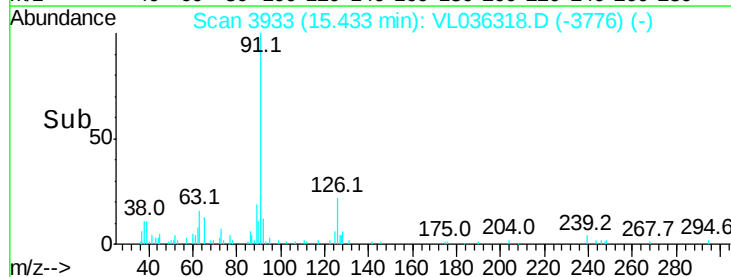
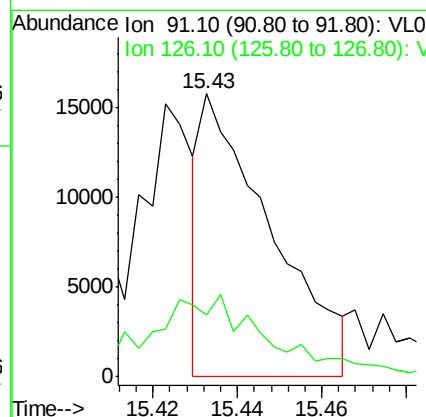
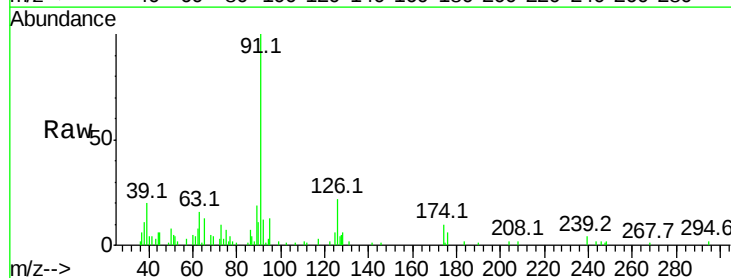
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

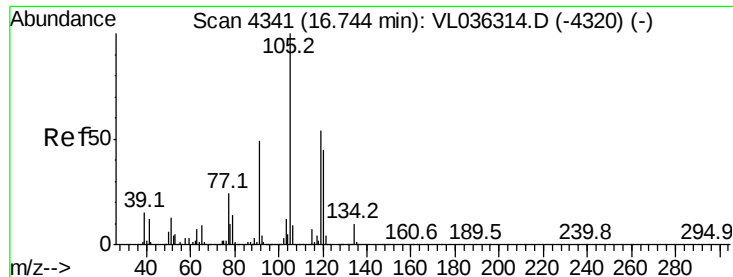
Tgt Ion: 95 Resp: 2535690
 Ion Ratio Lower Upper
 95 100
 174 62.4 49.8 74.6
 175 4.7 3.7 5.5



#71
 2-Chlorotoluene
 Concen: 0.042 ppbv
 RT: 15.43 min Scan# 3933
 Delta R.T. 0.00 min
 Lab File: VL036318.D
 Acq: 10 Feb 2021 14:01

Tgt Ion: 91 Resp: 18083
 Ion Ratio Lower Upper
 91 100
 126 54.7 11.5 46.1#





#74

1,2,4-Trimethylbenzene

Concen: 0.036 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:105 Resp: 14685

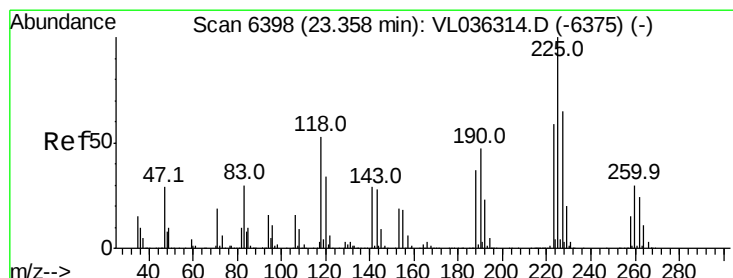
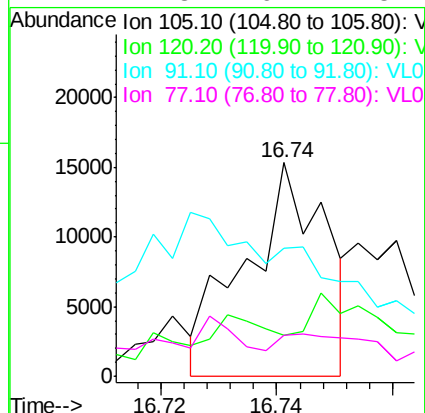
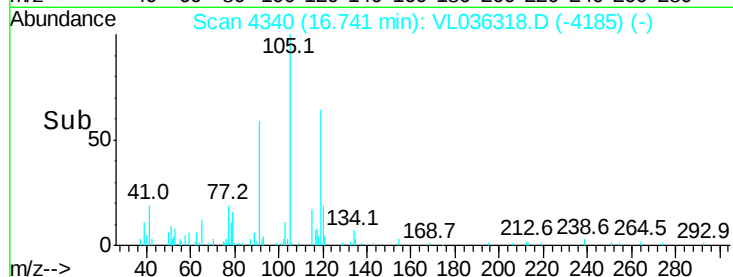
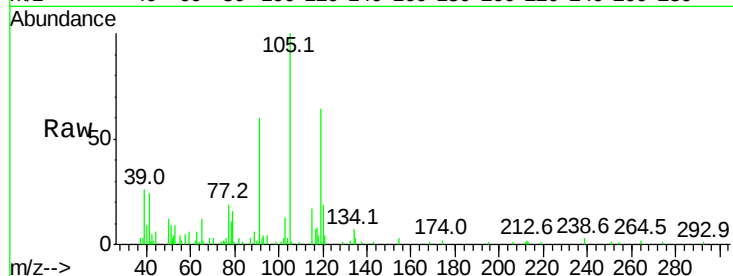
Ion Ratio Lower Upper

105 100

120 4.4 35.8 53.6#

91 19.4 39.8 59.6#

77 7.3 19.1 28.7#



#78

Hexachloro-1,3-Butadiene

Concen: 0.045 ppbv

RT: 23.36 min Scan# 6398

Delta R.T. 0.00 min

Lab File: VL036318.D

Acq: 10 Feb 2021 14:01

Tgt Ion:225 Resp: 7747

Ion Ratio Lower Upper

225 100

223 198.9 50.8 76.2#

227 0.0 52.2 78.2#

