

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035708.D
 Acq On : 23 Sep 2020 5:53
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Sep 23 06:25:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 05:25:46 2020
 QLast Update : Wed Sep 23 05:25:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1211357	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4500226	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4466457	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3406748	10.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	31556	0.151 ppbv	94
3) Chlorodifluoromethane	2.99	51	15981	0.121 ppbv	98
4) Chloromethane	3.14	50	7986	0.113 ppbv #	74
5) Vinyl Chloride	3.26	62	5422	0.062 ppbv #	82
6) Bromomethane	3.47	94	3389	0.046 ppbv #	64
7) Chloroethane	3.56	64	3496	0.113 ppbv	90
8) Dichlorotetrafluoroethane	3.19	85	29164	0.116 ppbv	100
9) Propene	3.01	41	5807	0.114 ppbv #	80
10) Heptane	8.13	43	5479	0.039 ppbv #	62
11) Trichlorofluoromethane	3.95	101	33802	0.112 ppbv #	81
12) 1,1,2-Trichlorotrifluoroet	4.49	101	24538	0.108 ppbv	97
14) Bromoethene	3.74	108	10038	0.103 ppbv #	98
15) Acetone	3.87	43	26140	0.199 ppbv #	62
16) 1,3-Butadiene	3.32	39	6107	0.123 ppbv #	72
18) 1,1-Dichloroethene	4.29	96	10433	0.104 ppbv #	92
19) Isopropyl Alcohol	3.99	45	9503	0.123 ppbv #	87
20) Methylene Chloride	4.35	84	22348	0.226 ppbv	95
21) Allyl Chloride	4.41	41	6245	0.100 ppbv	91
22) trans-1,2-Dichloroethene	4.89	96	10517	0.099 ppbv	93
23) Vinyl Acetate	5.09	43	15908	0.094 ppbv #	90
24) 1,1-Dichloroethane	5.02	63	19837	0.113 ppbv	97
25) Ethyl Acetate	5.69	43	23166	0.098 ppbv	97
26) Hexane	5.69	57	11913	0.089 ppbv	86
27) Carbon Disulfide	4.56	76	12185	0.064 ppbv #	46
28) Methyl tert-Butyl Ether	5.06	73	16885	0.074 ppbv	94
29) Chloroform	5.76	83	28985	0.107 ppbv	91
31) cis-1,2-Dichloroethene	5.56	61	10679	0.079 ppbv #	80
32) 1,1,1-Trichloroethane	6.52	97	10162	0.039 ppbv #	14
34) 2-Butanone	5.27	43	14323	0.105 ppbv	100
35) Carbon Tetrachloride	7.03	117	23367	0.103 ppbv	94
36) Benzene	6.90	78	22793	0.077 ppbv	95
37) 1,2-Dichloroethane	6.31	62	16738	0.118 ppbv	98
38) Trichloroethene	7.84	130	12823	0.076 ppbv	90
39) 1,2-Dichloropropane	7.62	63	11583	0.116 ppbv #	90
42) Bromodichloromethane	7.81	83	11603	0.051 ppbv	99
43) Methyl Methacrylate	8.03	69	6908	0.060 ppbv	88
44) 2,2,4-Trimethylpentane	7.88	57	27357	0.070 ppbv #	82
47) 1,1,2-Trichloroethane	9.49	97	14661	0.100 ppbv #	89
48) Dibromochloromethane	10.32	129	17330	0.076 ppbv	96
51) 2-Hexanone	10.18	43	5387	0.033 ppbv #	61
53) Toluene	9.82	91	12838	0.035 ppbv #	52

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

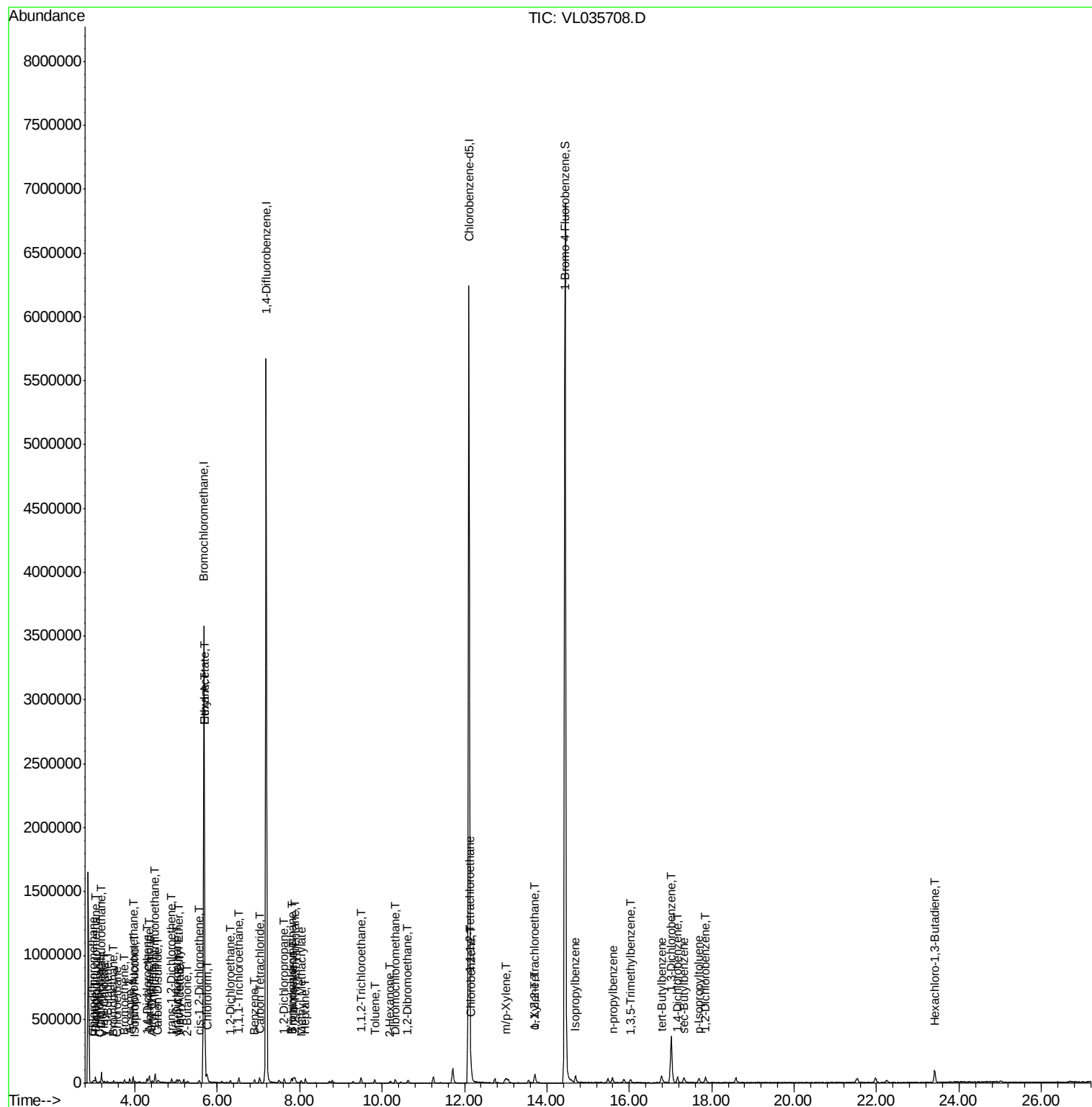
54) 1,2-Dibromoethane	10.62	107	12421	0.054	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.15	131	13529	0.074	ppbv #	1
57) Chlorobenzene	12.16	112	39989	0.120	ppbv	92
59) m/p-Xylene	13.02	91	17091	0.043	ppbv	94
60) o-Xylene	13.72	91	12909	0.033	ppbv #	58
62) Isopropylbenzene	14.70	105	22013	0.035	ppbv #	59
63) 1,1,2,2-Tetrachloroethane	13.71	83	31555	0.103	ppbv	97
64) n-propylbenzene	15.59	120	8890	0.046	ppbv #	37
65) tert-Butylbenzene	16.77	119	18407	0.031	ppbv #	61
67) sec-Butylbenzene	17.32	105	40467	0.052	ppbv	95
69) p-Isopropyltoluene	17.69	119	21592	0.032	ppbv #	86
73) 1,3,5-Trimethylbenzene	16.03	105	16708	0.036	ppbv #	85
75) 1,3-Dichlorobenzene	17.03	146	37363	0.101	ppbv	96
76) 1,4-Dichlorobenzene	17.16	146	11962	0.033	ppbv #	24
77) 1,2-Dichlorobenzene	17.85	146	15850	0.044	ppbv #	33
78) Hexachloro-1,3-Butadiene	23.41	225	10800	0.048	ppbv #	1

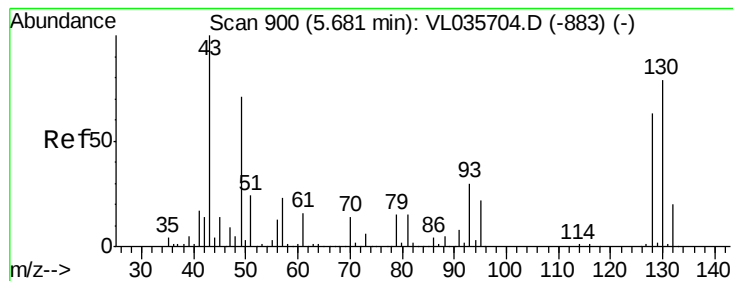
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092320\
Data File : VL035708.D
Acq On : 23 Sep 2020 5:53
Operator : SY/AP
Sample : VSTDICC0.1
Misc : 400ml/MSVOA L
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Instrument :
MSVOA_L
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VSTDICC0.1

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

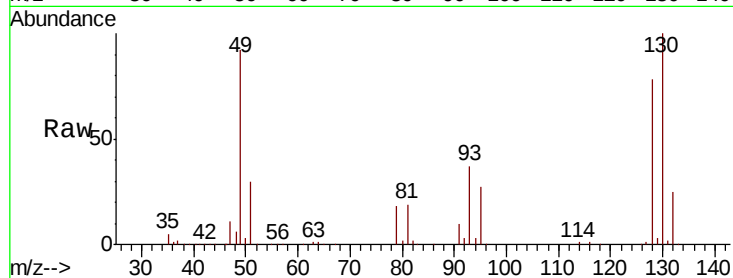
Tot Ion: 49 Resp: 1211357

Ion Ratio Lower Upper

49 100

128 85.7 43.1 129.4

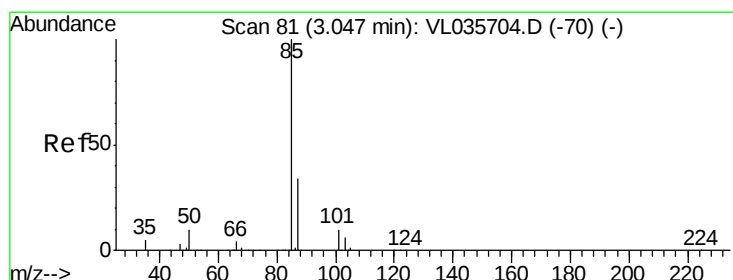
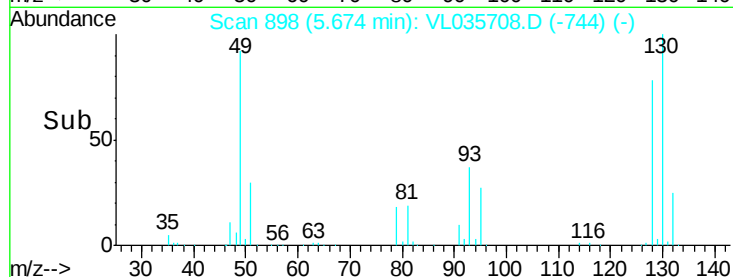
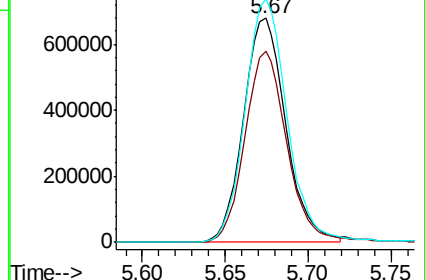
130 108.8 54.9 164.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.151 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035708.D

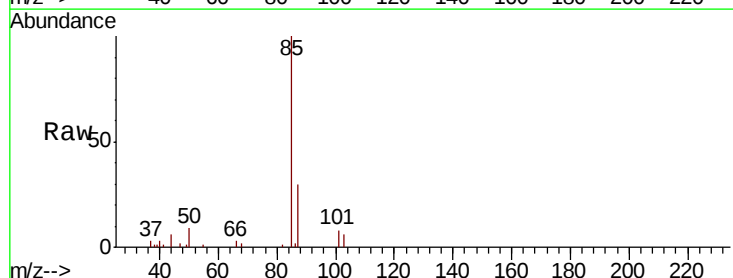
Acq: 23 Sep 2020 5:53

Tgt Ion: 85 Resp: 31556

Ion Ratio Lower Upper

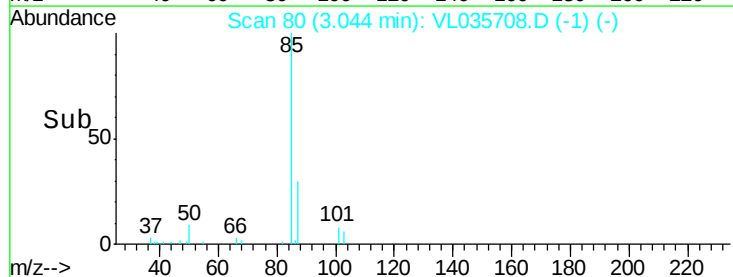
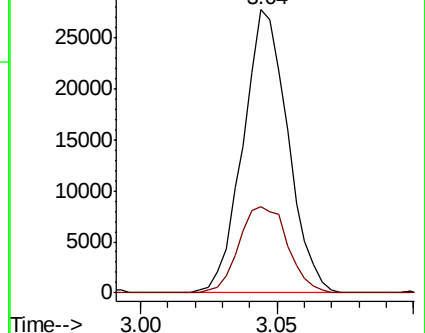
85 100

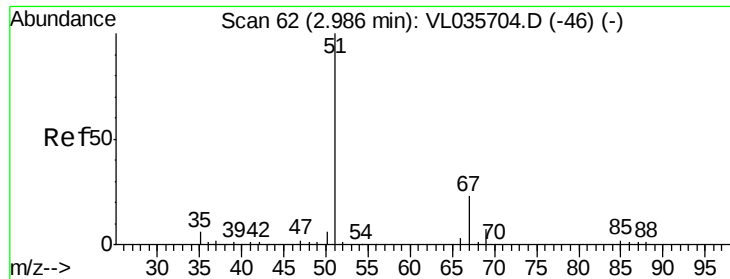
87 30.4 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.121 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

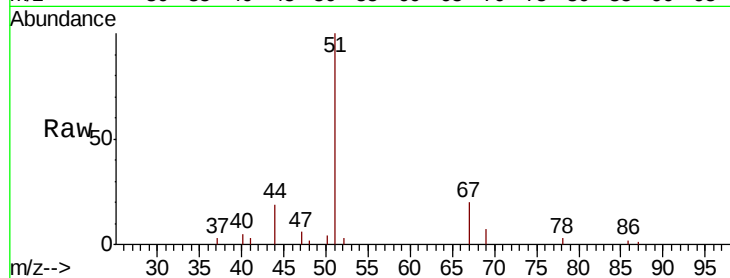
VSTDIC0.1

Tot Ion: 51 Resp: 15981

Ion Ratio Lower Upper

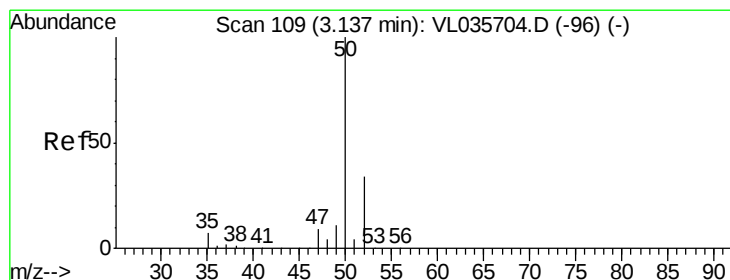
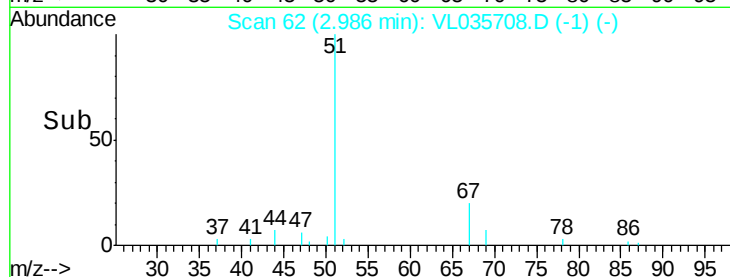
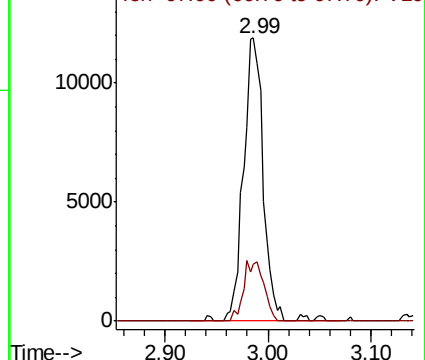
51 100

67 21.5 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.113 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL035708.D

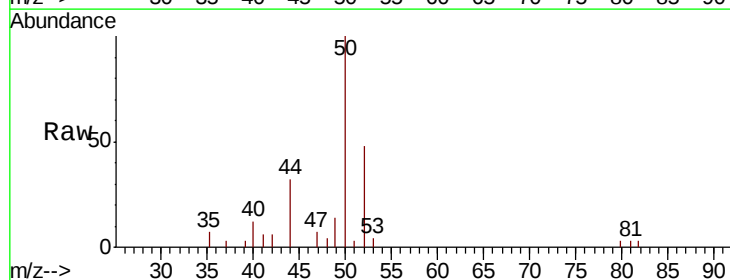
Acq: 23 Sep 2020 5:53

Tgt Ion: 50 Resp: 7986

Ion Ratio Lower Upper

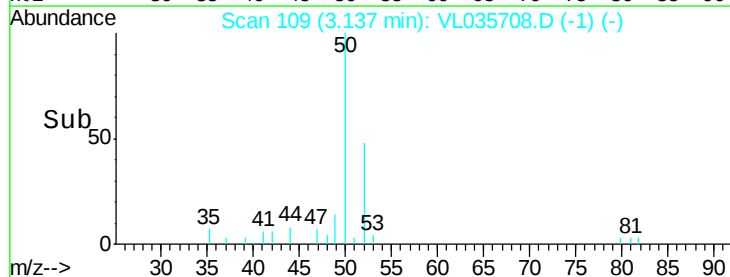
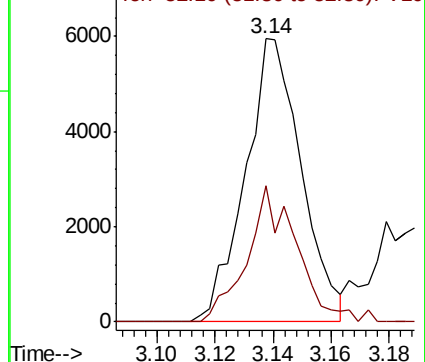
50 100

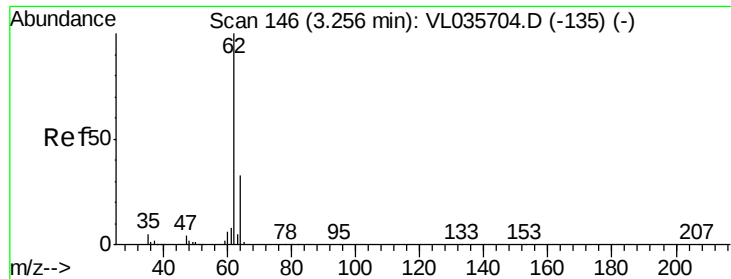
52 48.1 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.062 ppbv

RT: 3.26 min Scan# 146

Delta R.T. 0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

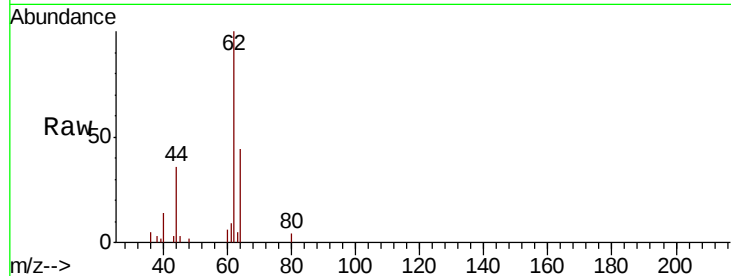
VSTDIC0.1

Tot Ion: 62 Resp: 5422

Ion Ratio Lower Upper

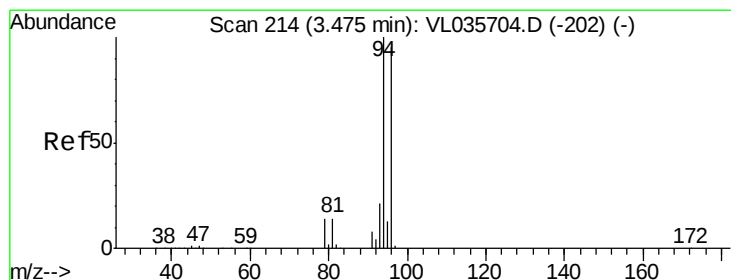
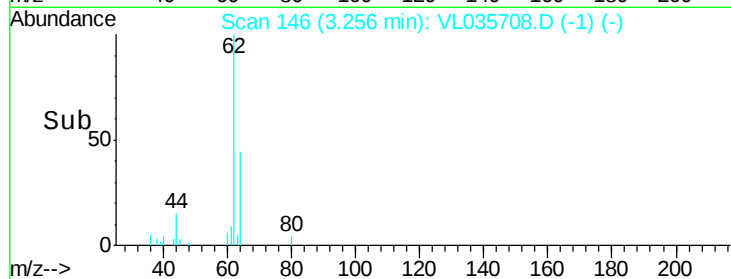
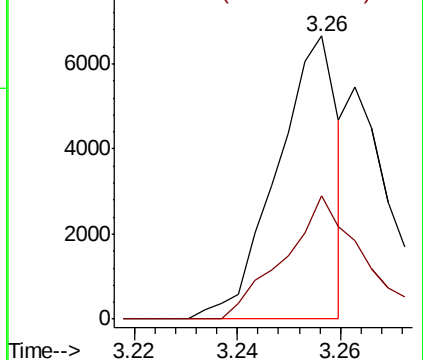
62 100

64 43.8 26.8 40.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.046 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.01 min

Lab File: VL035708.D

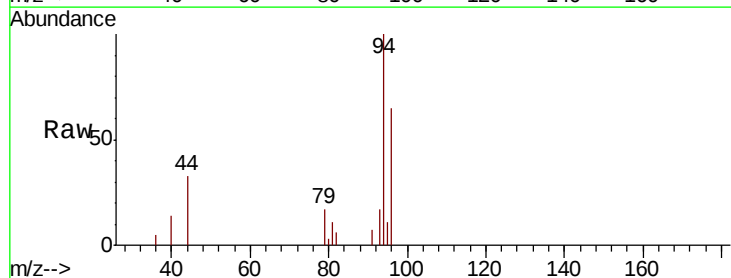
Acq: 23 Sep 2020 5:53

Tgt Ion: 94 Resp: 3389

Ion Ratio Lower Upper

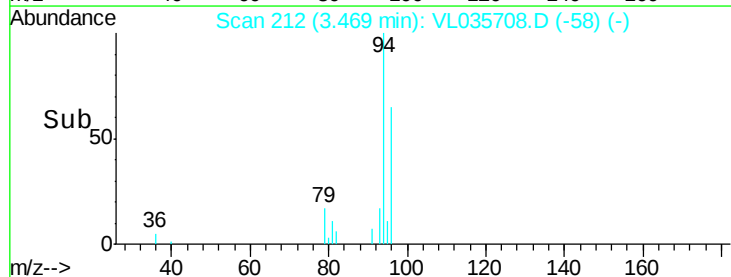
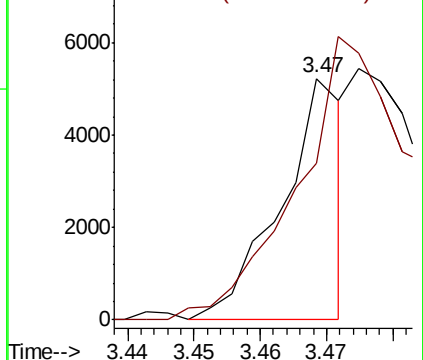
94 100

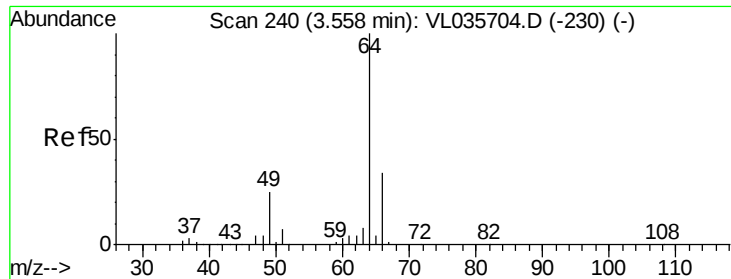
96 60.0 76.3 114.5#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.113 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

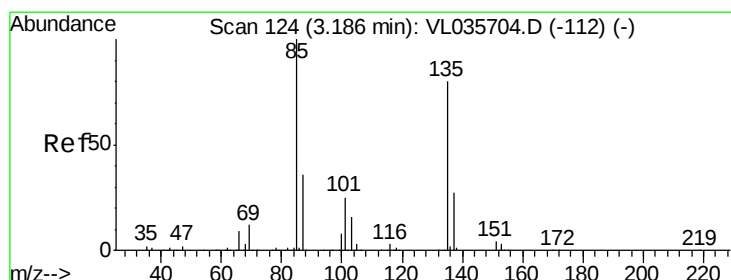
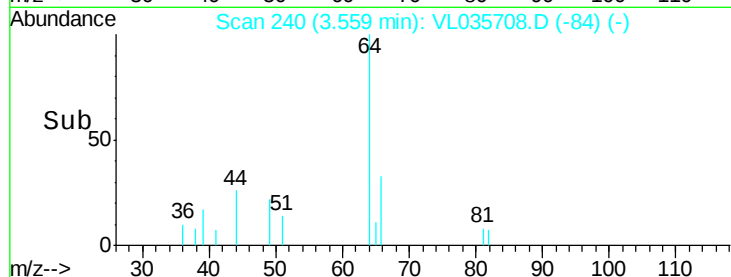
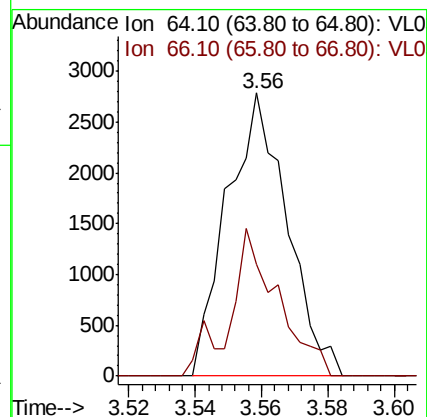
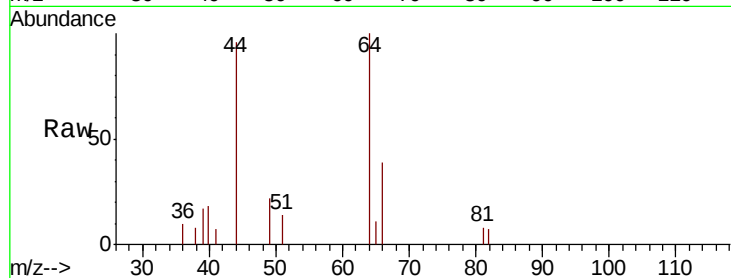
VSTDIC0.1

Tot Ion: 64 Resp: 3496

Ion Ratio Lower Upper

64 100

66 39.3 26.9 40.3



#8

Dichlorotetrafluoroethane

Concen: 0.116 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL035708.D

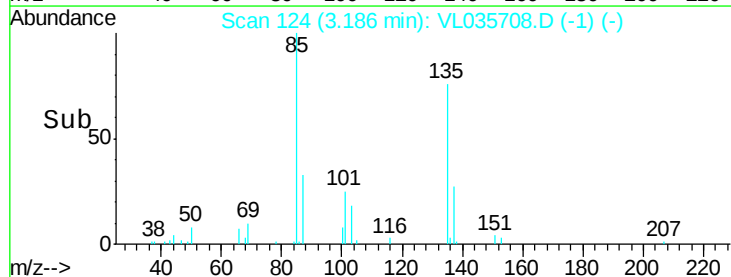
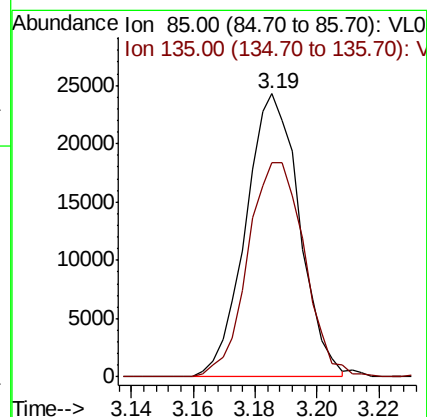
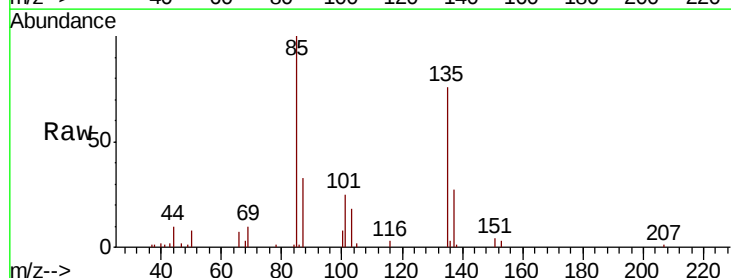
Acq: 23 Sep 2020 5:53

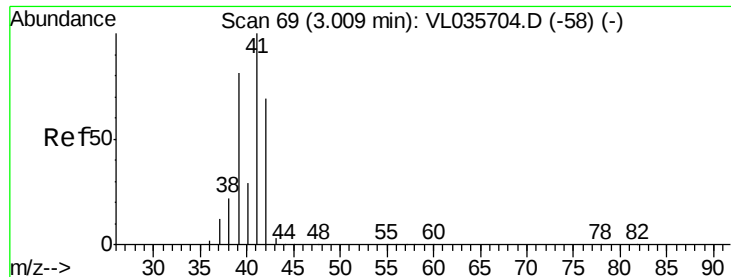
Tgt Ion: 85 Resp: 29164

Ion Ratio Lower Upper

85 100

135 80.2 64.3 96.5





#9

Propene

Concen: 0.114 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

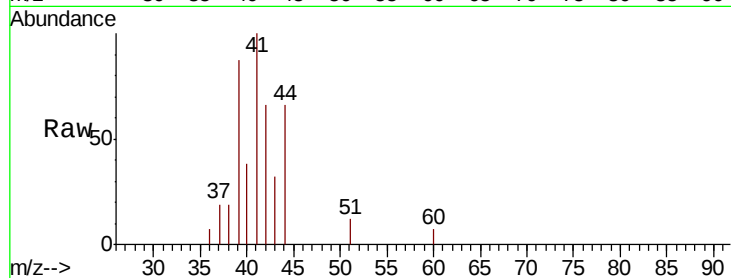
VSTDIC0.1

Tot Ion: 41 Resp: 5807

Ion Ratio Lower Upper

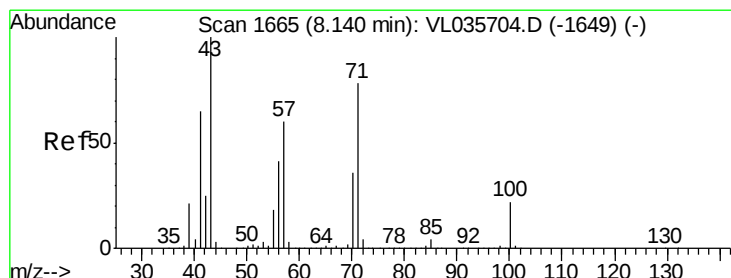
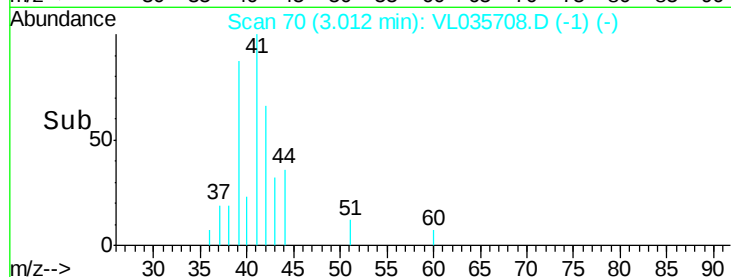
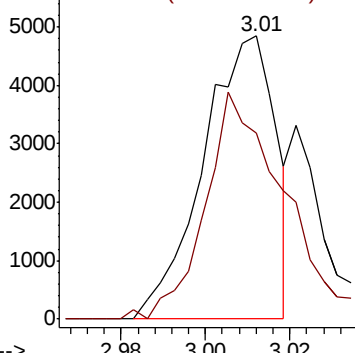
41 100

42 86.8 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.039 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. -0.01 min

Lab File: VL035708.D

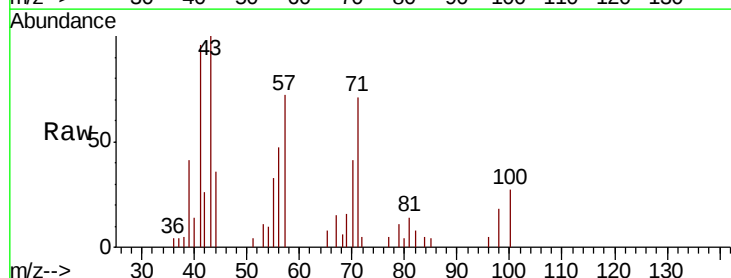
Acq: 23 Sep 2020 5:53

Tgt Ion: 43 Resp: 5479

Ion Ratio Lower Upper

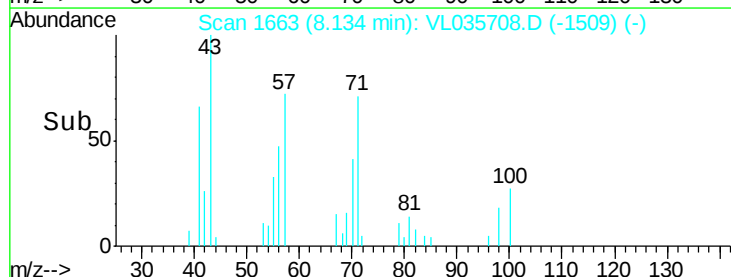
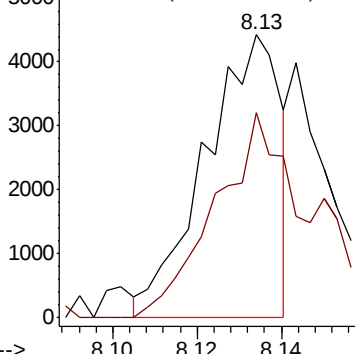
43 100

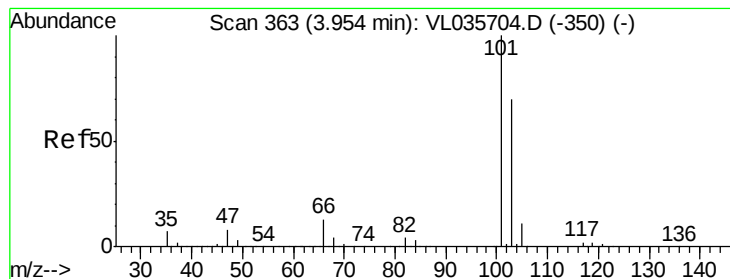
57 92.4 50.4 75.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.112 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

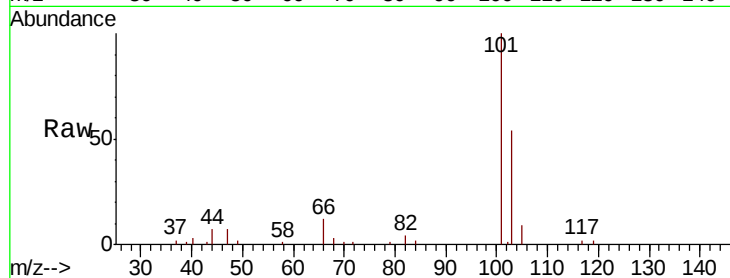
VSTDIC0.1

Tot Ion:101 Resp: 33802

Ion Ratio Lower Upper

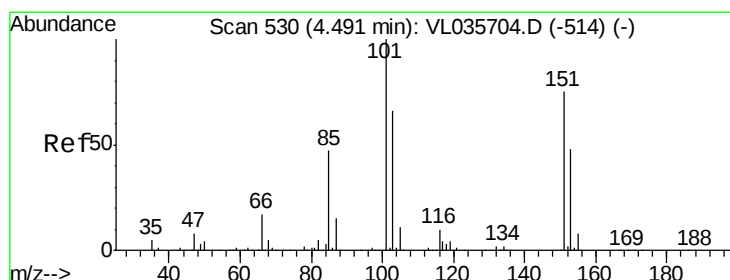
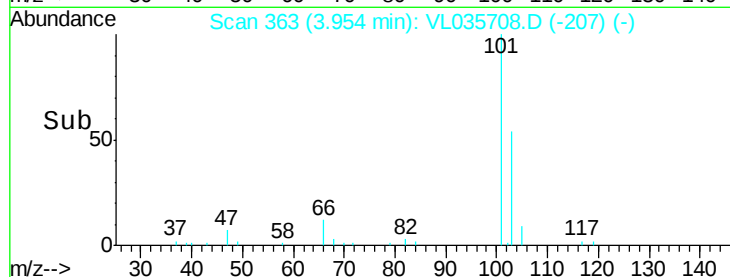
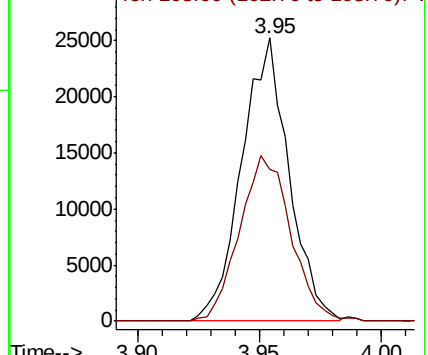
101 100

103 53.7 55.6 83.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.108 ppbv

RT: 4.49 min Scan# 529

Delta R.T. -0.00 min

Lab File: VL035708.D

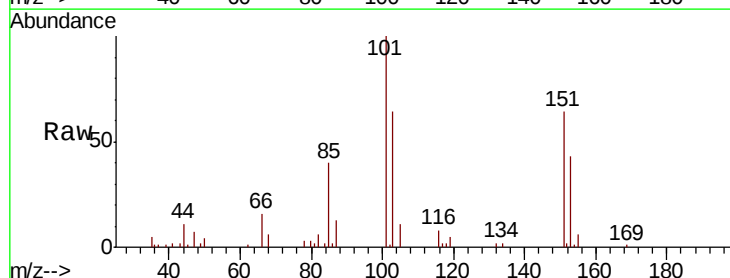
Acq: 23 Sep 2020 5:53

Tgt Ion:101 Resp: 24538

Ion Ratio Lower Upper

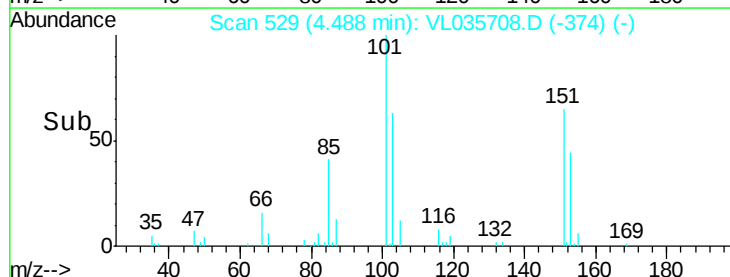
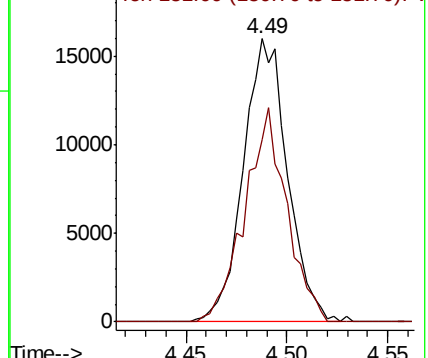
101 100

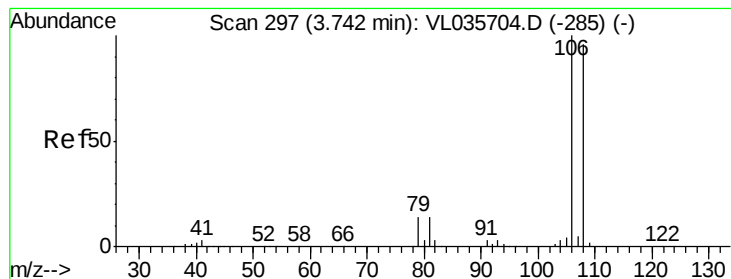
151 71.6 59.1 88.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.103 ppbv

RT: 3.74 min Scan# 297

Delta R.T. 0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

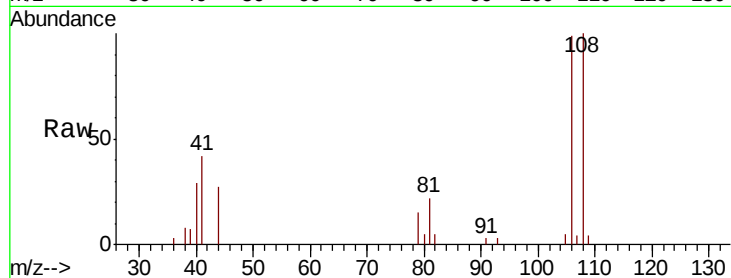
Tot Ion:108 Resp: 10038

Ion Ratio Lower Upper

108 100

106 105.1 84.6 126.8

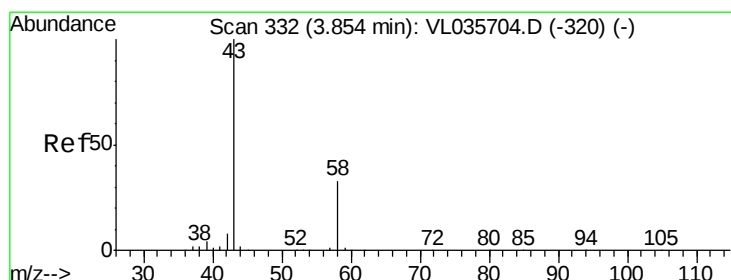
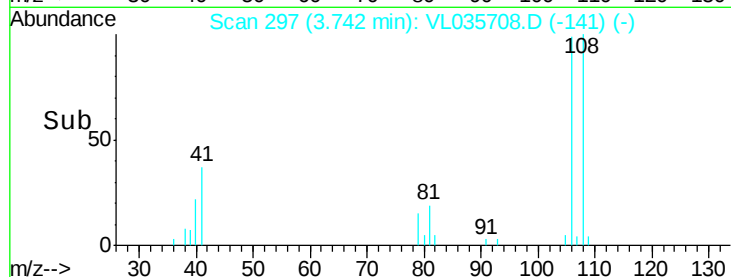
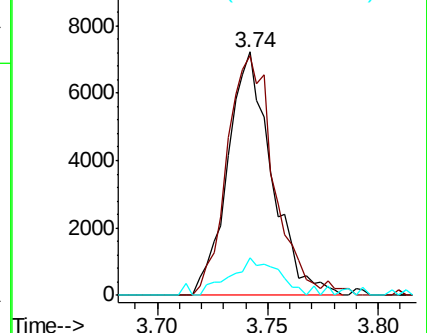
79 19.4 11.6 17.4#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VLO



#15

Acetone

Concen: 0.199 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL035708.D

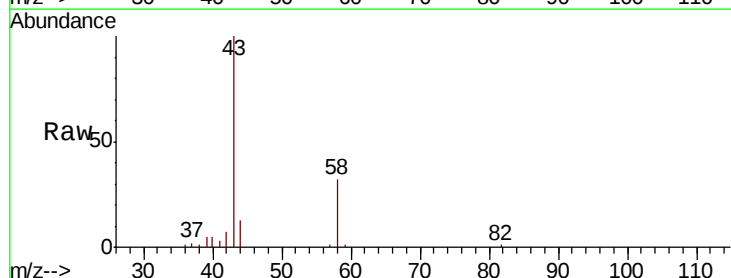
Acq: 23 Sep 2020 5:53

Tgt Ion: 43 Resp: 26140

Ion Ratio Lower Upper

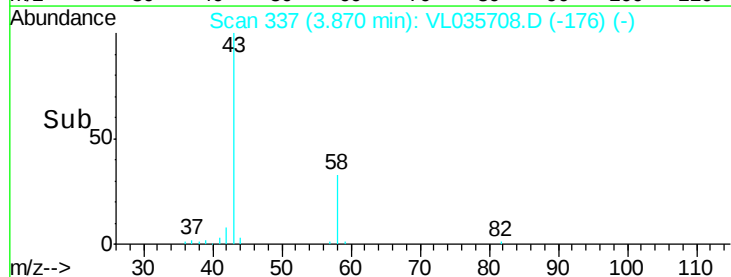
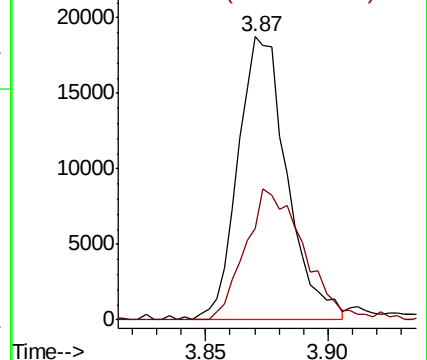
43 100

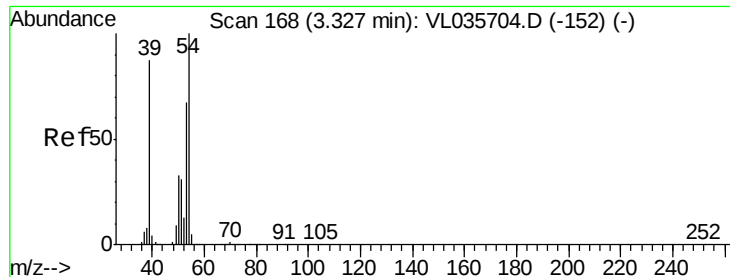
58 56.1 27.3 40.9#



Abundance Ion 43.10 (42.80 to 43.80): VLO

Ion 58.10 (57.80 to 58.80): VLO

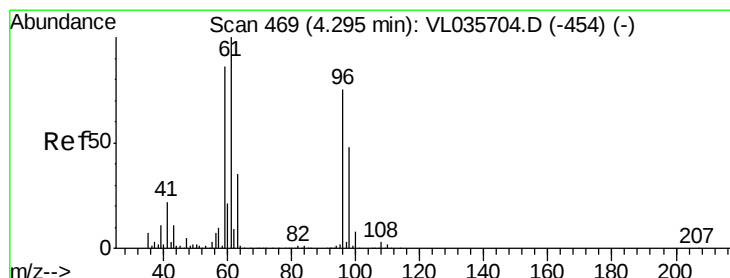
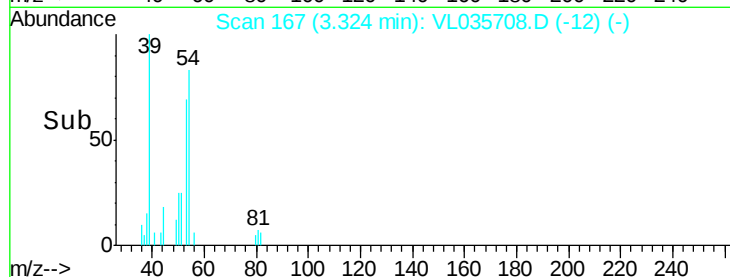
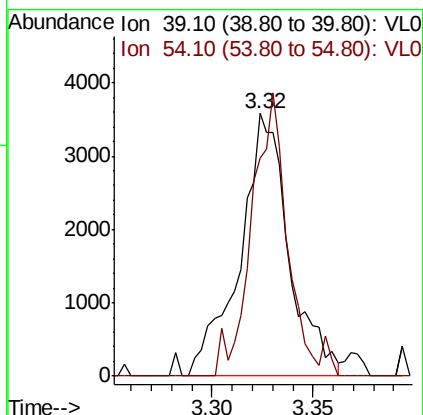
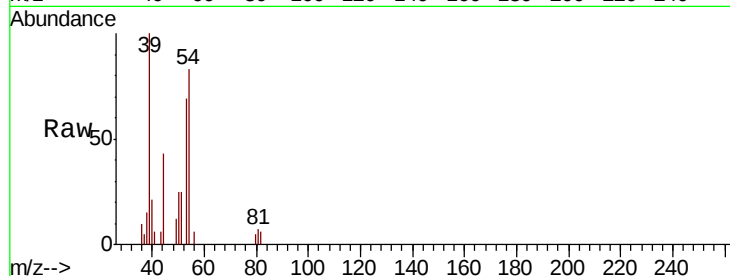




#16
 1,3-Butadiene
 Concen: 0.123 ppbv
 RT: 3.32 min Scan# 167
 Delta R.T. -0.00 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

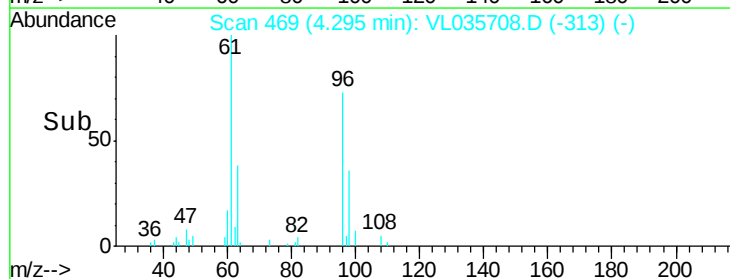
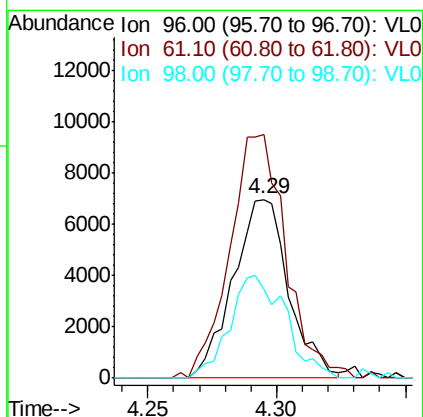
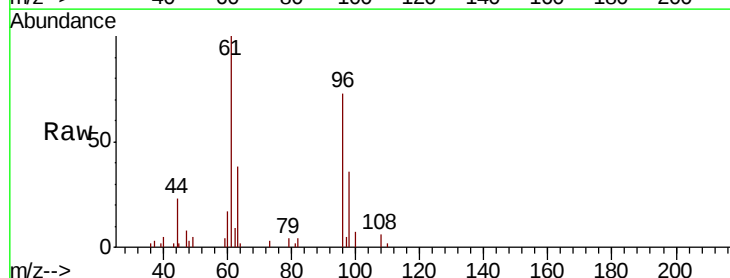
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

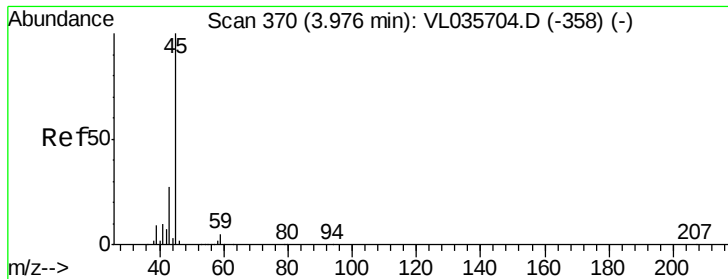
Tot Ion: 39 Resp: 6107
 Ion Ratio Lower Upper
 39 100
 54 79.6 87.4 131.0#



#18
 1,1-Dichloroethene
 Concen: 0.104 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.00 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

Tgt Ion: 96 Resp: 10433
 Ion Ratio Lower Upper
 96 100
 61 136.5 106.7 160.1
 98 49.6 50.8 76.2#





#19

Isopropyl Alcohol

Concen: 0.123 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

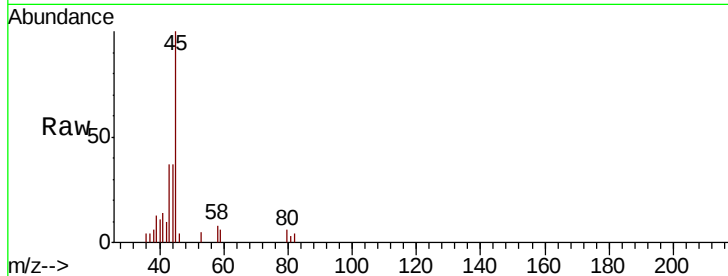
VSTDIC0.1

Tot Ion: 45 Resp: 9503

Ion Ratio Lower Upper

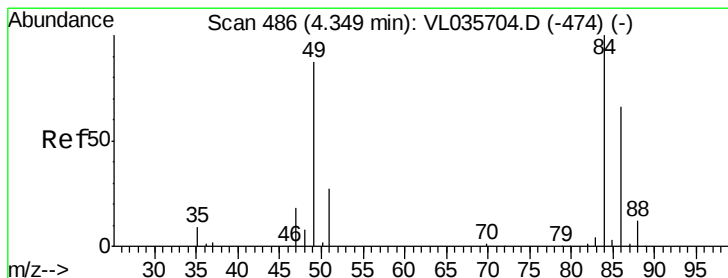
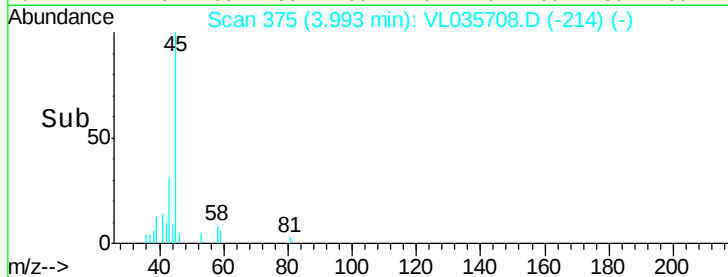
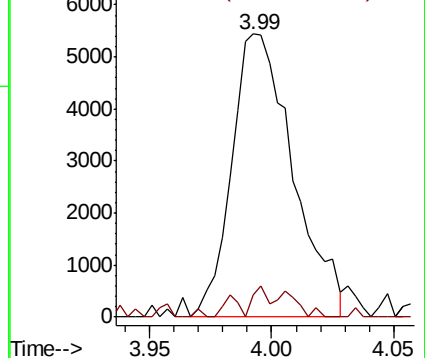
45 100

58 7.8 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.226 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Tgt Ion: 84 Resp: 22348

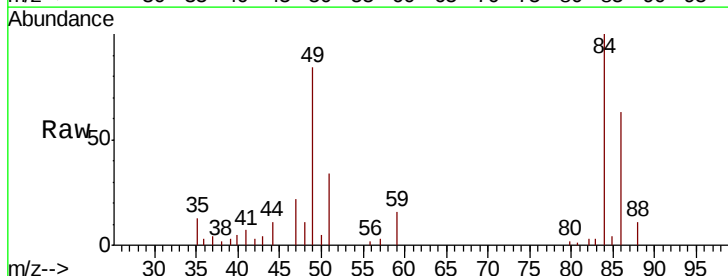
Ion Ratio Lower Upper

84 100

49 81.7 69.8 104.6

51 32.3 21.8 32.8

86 63.4 52.6 78.8

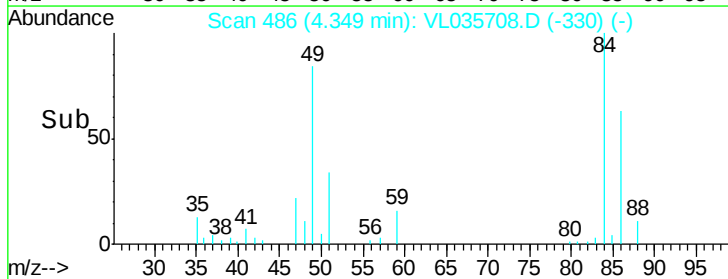
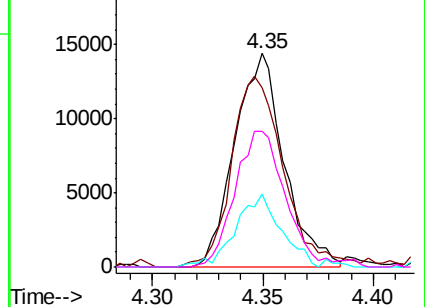


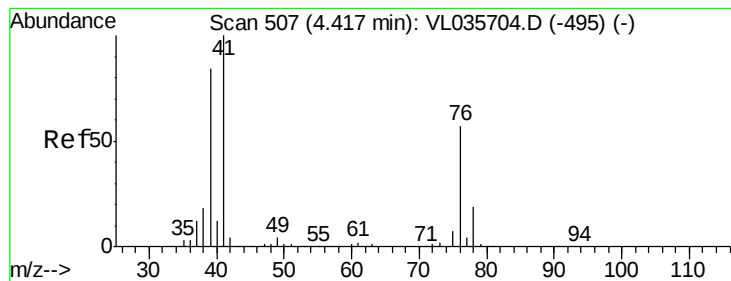
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allvl Chloride

Concen: 0.100 ppbv

RT: 4.41 min Scan# 506

Delta R.T. -0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

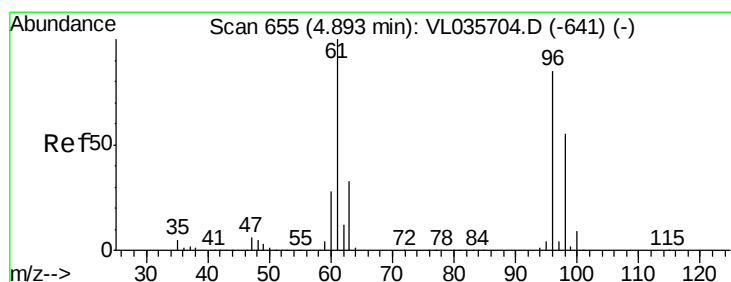
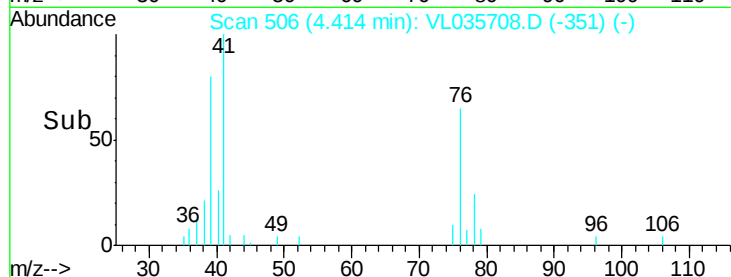
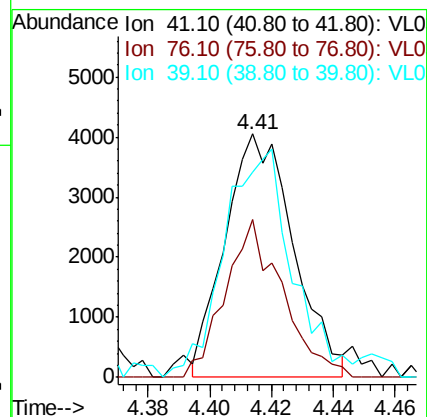
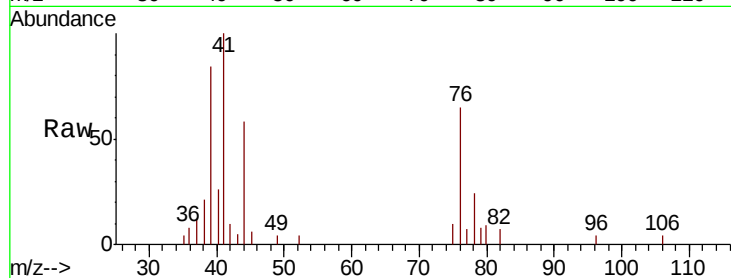
Tot Ion: 41 Resp: 6245

Ion Ratio Lower Upper

41 100

76 53.9 44.8 67.2

39 97.5 68.4 102.6



#22

trans-1,2-Dichloroethene

Concen: 0.099 ppbv

RT: 4.89 min Scan# 654

Delta R.T. -0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

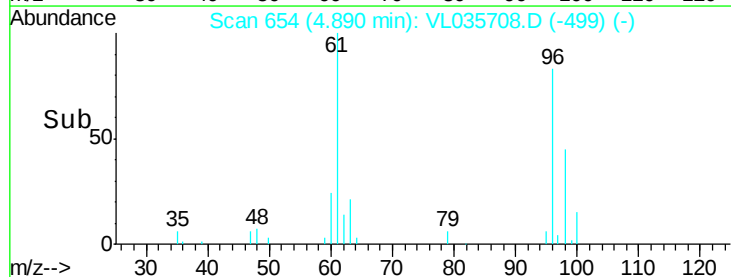
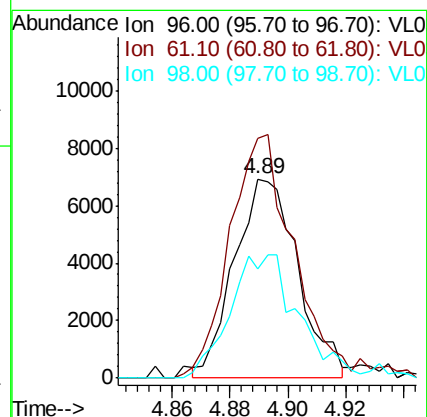
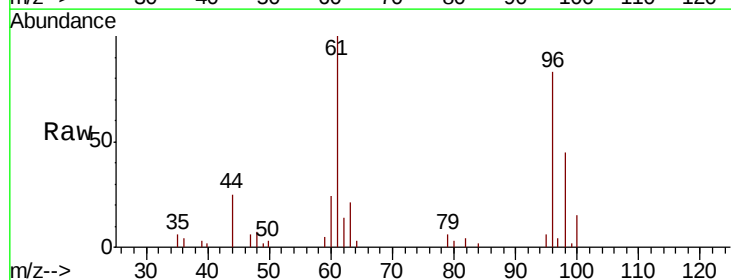
Tgt Ion: 96 Resp: 10517

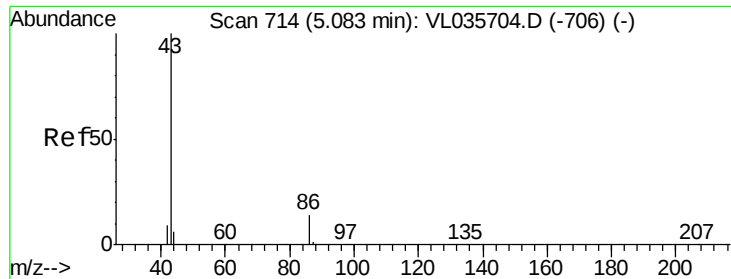
Ion Ratio Lower Upper

96 100

61 121.1 93.7 140.5

98 54.3 51.2 76.8





#23

Vinyl Acetate

Concen: 0.094 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 43 Resp: 15908

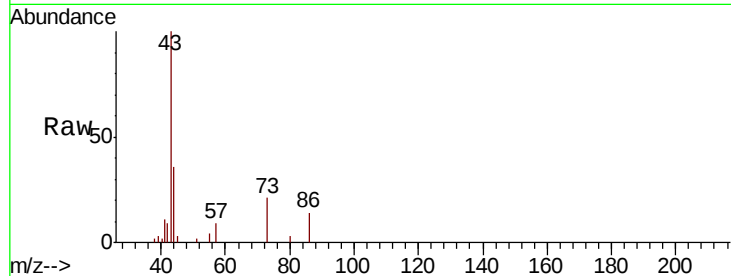
Ion Ratio Lower Upper

43 100

86 14.3 9.7 14.5

42 9.0 7.9 11.9

44 17.0 4.8 7.2#

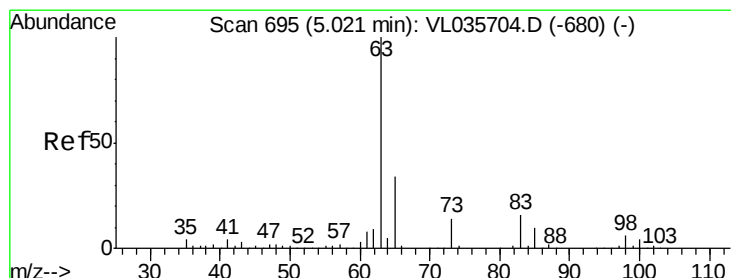
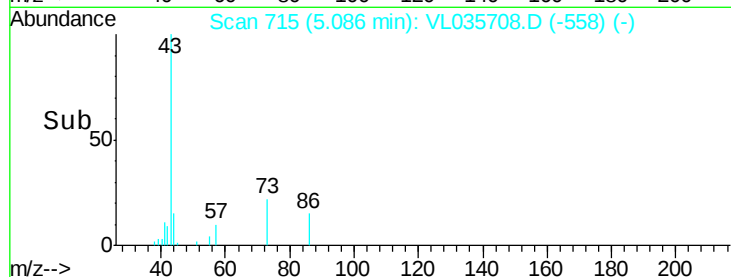
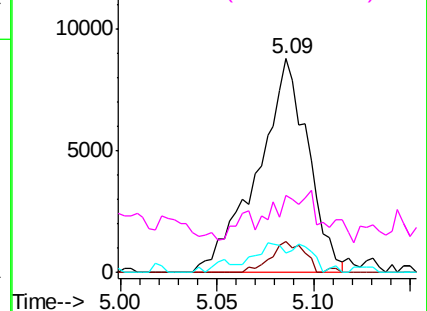


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.113 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

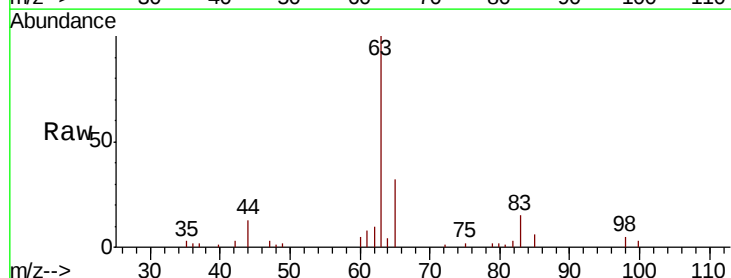
Tgt Ion: 63 Resp: 19837

Ion Ratio Lower Upper

63 100

98 5.2 3.3 9.8

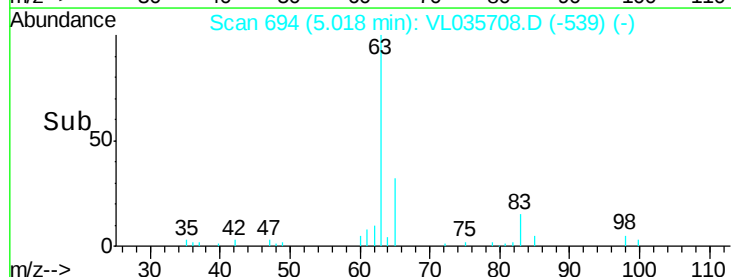
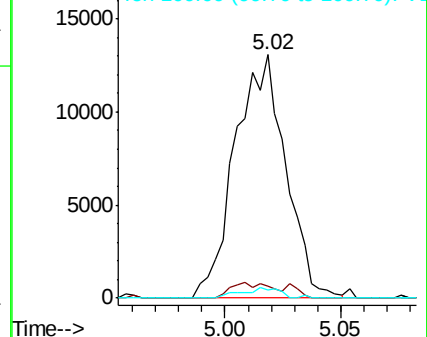
100 3.1 2.0 5.8

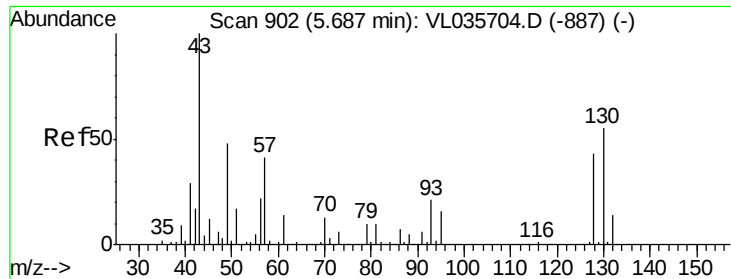


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

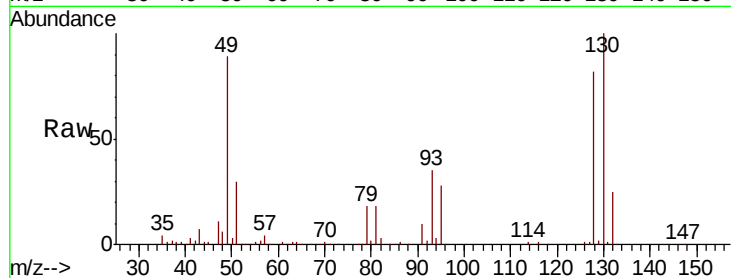




#25
Ethyl Acetate
Concen: 0.098 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL035708.D
Acq: 23 Sep 2020 5:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion:	43	Resp:	23166
Ion	Ratio	Lower	Upper
43	100		
45	12.3	8.6	12.8
61	12.6	10.4	15.6
70	10.0	8.9	13.3



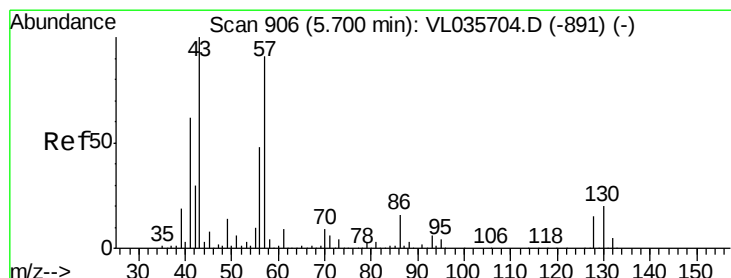
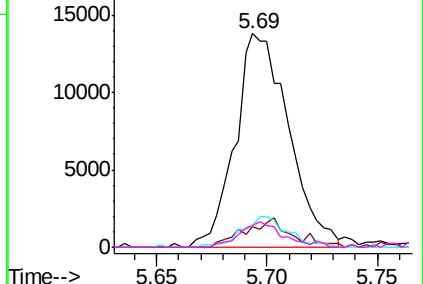
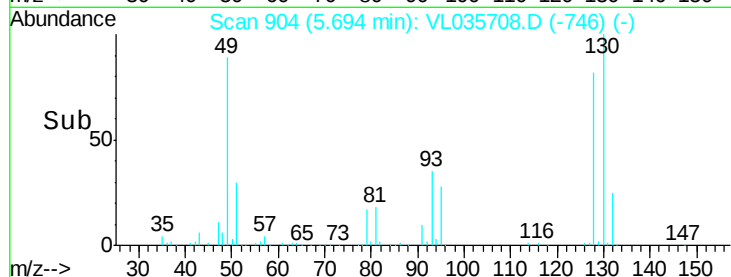
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

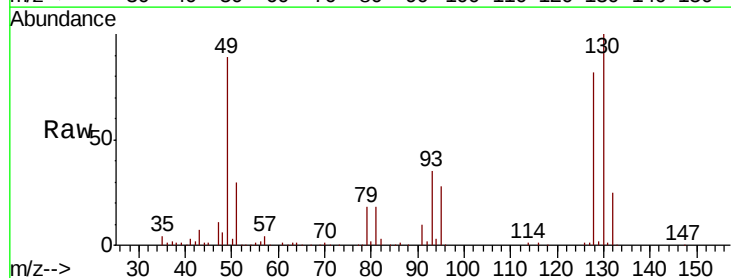
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.089 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL035708.D
Acq: 23 Sep 2020 5:53

Tgt Ion:	57	Resp:	11913
Ion	Ratio	Lower	Upper
57	100		
41	86.1	57.9	86.9
43	200.9	143.8	215.6
56	60.2	43.0	64.6



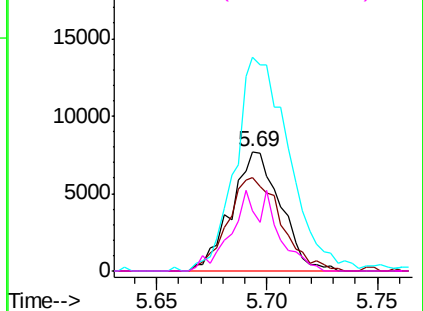
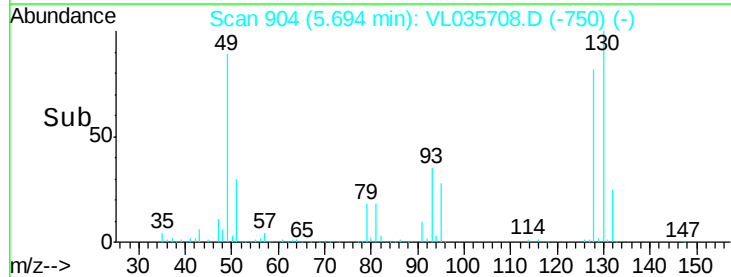
Abundance

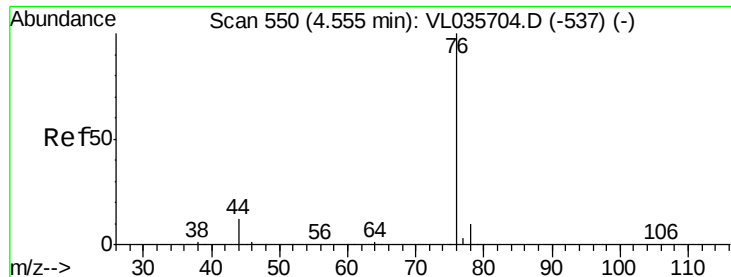
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.064 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

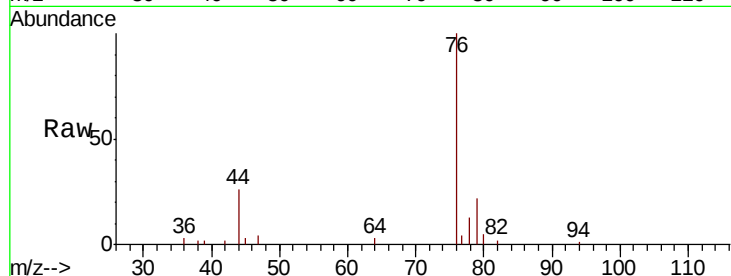
Tot Ion: 76 Resp: 12185

Ion Ratio Lower Upper

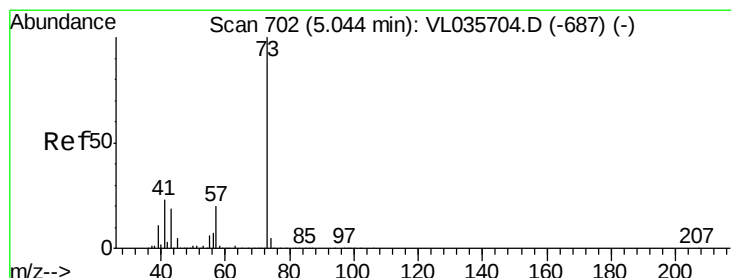
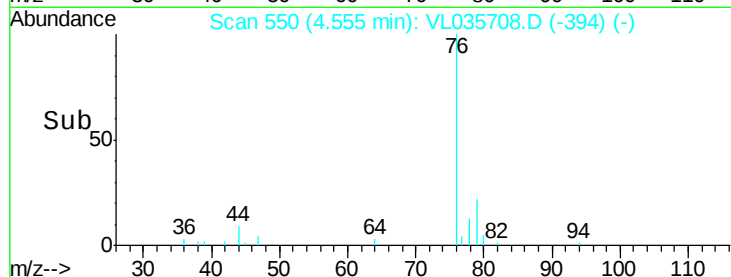
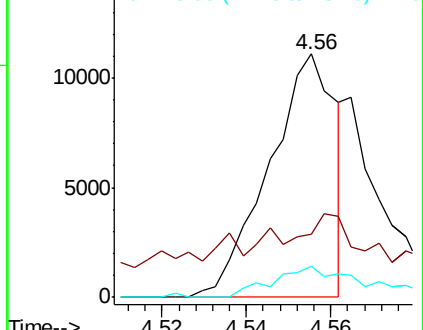
76 100

44 42.6 9.7 14.5#

78 18.5 7.8 11.8#



Abundance Ion 76.00 (75.70 to 76.70): VL0
15000 Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.074 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.02 min

Lab File: VL035708.D

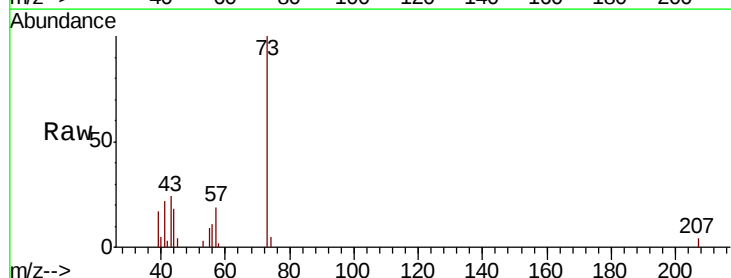
Acq: 23 Sep 2020 5:53

Tgt Ion: 73 Resp: 16885

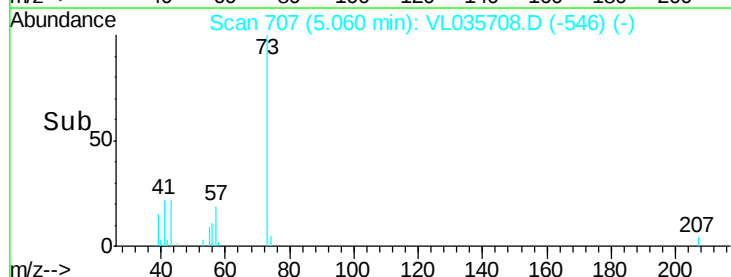
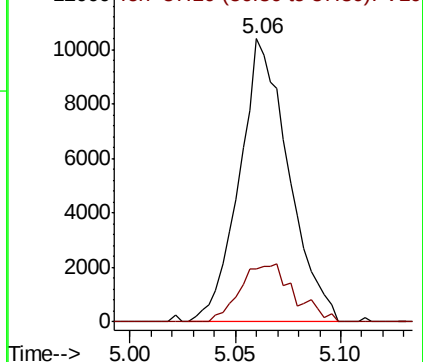
Ion Ratio Lower Upper

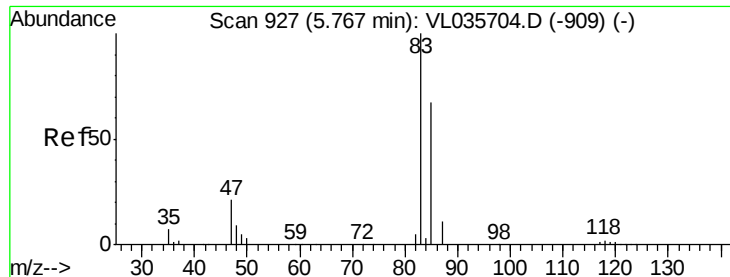
73 100

57 22.3 15.6 23.4



Abundance Ion 73.10 (72.80 to 73.80): VL0
12000 Ion 57.10 (56.80 to 57.80): VL0

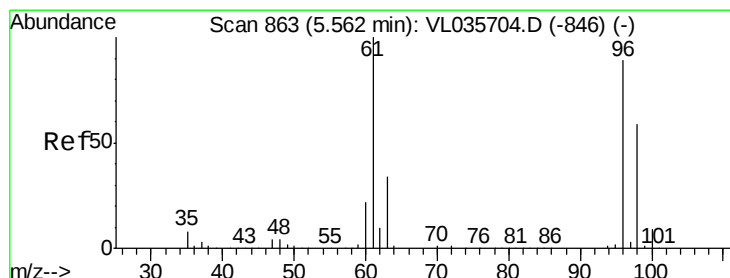
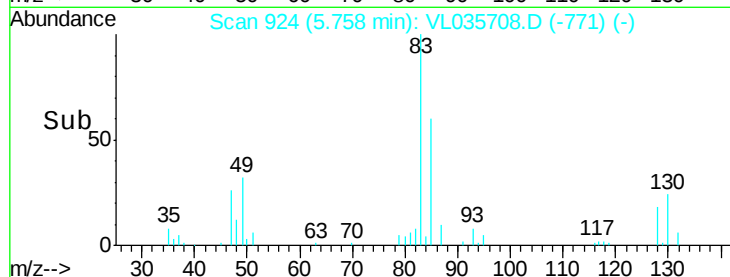
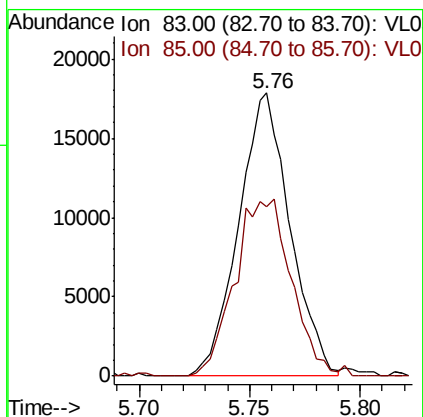
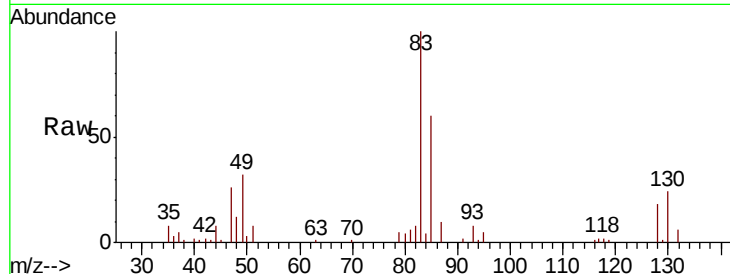




#29
Chloroform
Concen: 0.107 ppbv
RT: 5.76 min Scan# 924
Delta R.T. -0.01 min
Lab File: VL035708.D
Acq: 23 Sep 2020 5:53

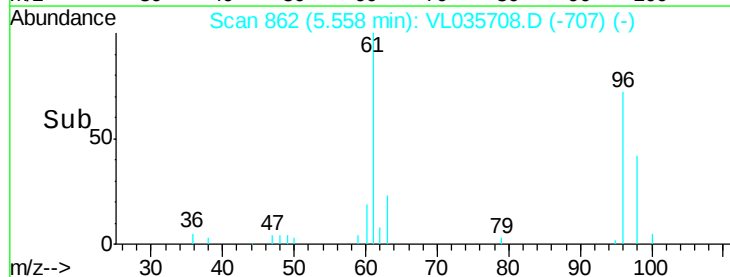
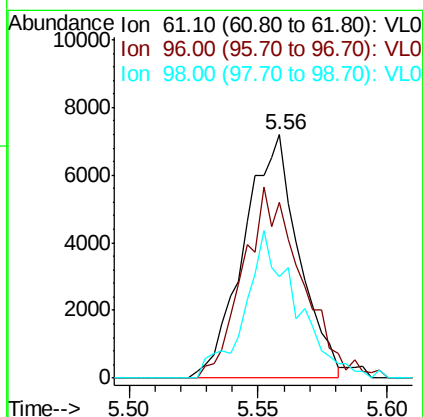
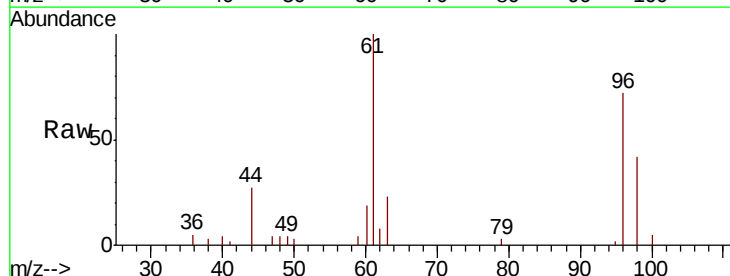
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

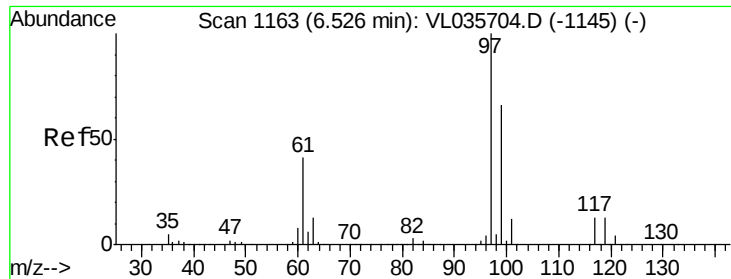
Tot Ion: 83 Resp: 28985
Ion Ratio Lower Upper
83 100
85 60.0 54.0 81.0



#31
cis-1,2-Dichloroethene
Concen: 0.079 ppbv
RT: 5.56 min Scan# 862
Delta R.T. -0.00 min
Lab File: VL035708.D
Acq: 23 Sep 2020 5:53

Tgt Ion: 61 Resp: 10679
Ion Ratio Lower Upper
61 100
96 72.1 71.4 107.2
98 41.9 47.4 71.2#

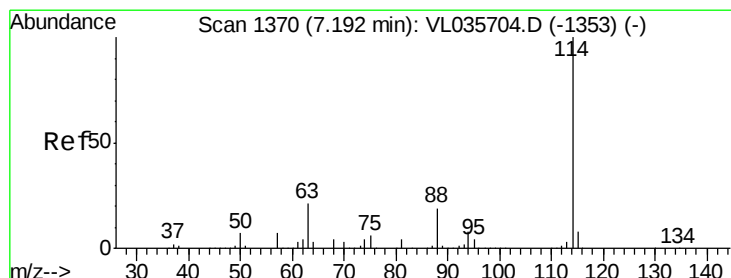
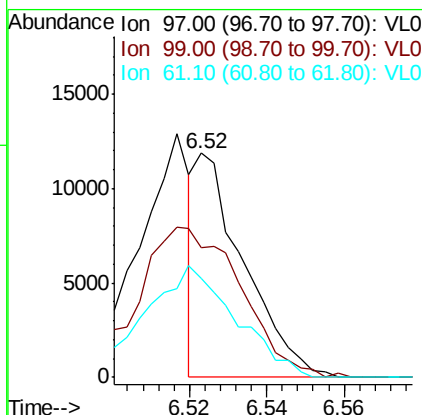
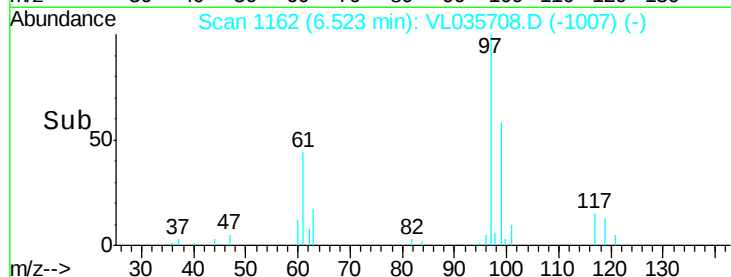
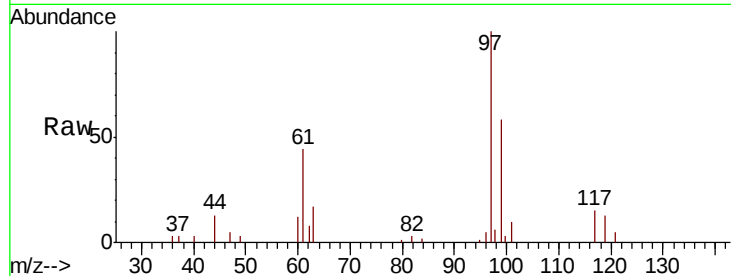




#32
 1,1,1-Trichloroethane
 Concen: 0.039 ppbv
 RT: 6.52 min Scan# 1162
 Delta R.T. -0.00 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

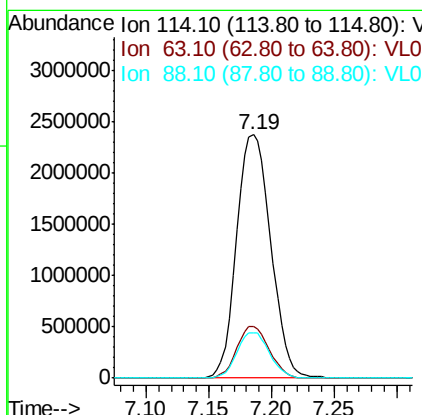
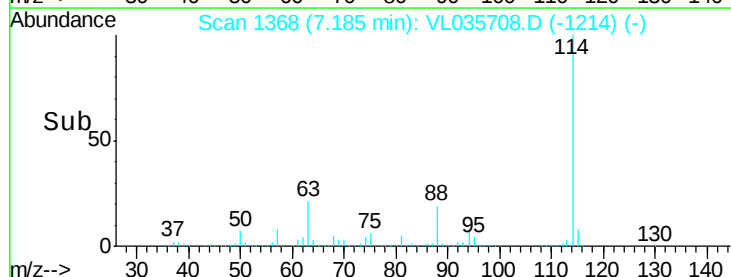
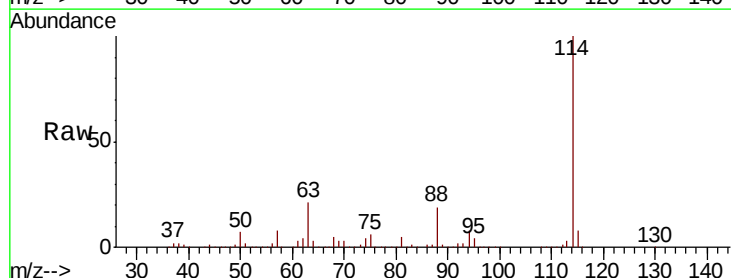
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

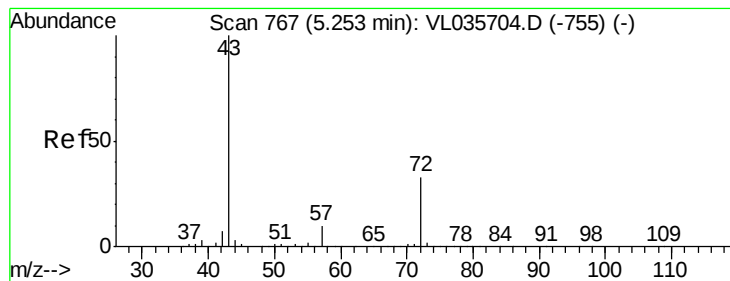
Tot Ion: 97 Resp: 10162
 Ion Ratio Lower Upper
 97 100
 99 0.0 52.7 79.1#
 61 98.0 32.7 49.1#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

Tgt Ion: 114 Resp: 4500226
 Ion Ratio Lower Upper
 114 100
 63 20.2 16.1 24.1
 88 17.8 14.1 21.1





#34

2-Butanone

Concen: 0.105 ppbv

RT: 5.27 min Scan# 773

Delta R.T. 0.02 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

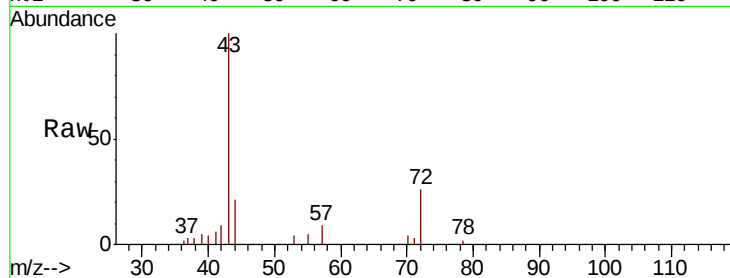
VSTDIC0.1

Tot Ion: 43 Resp: 14323

Ion Ratio Lower Upper

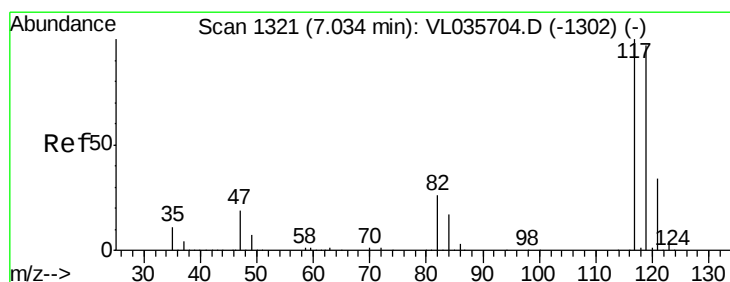
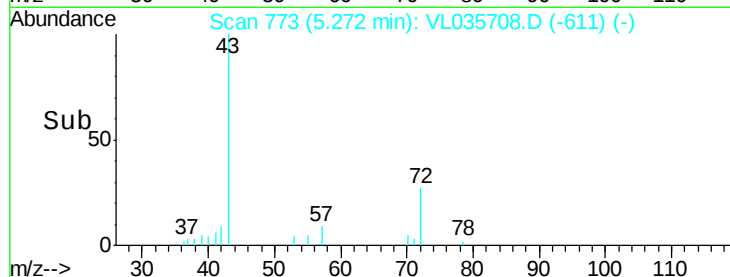
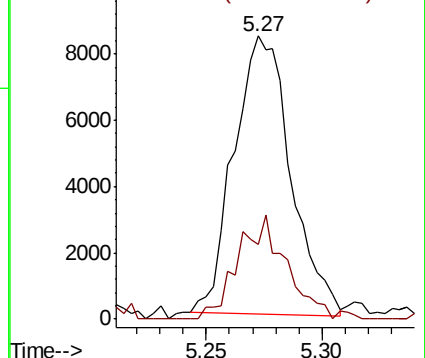
43 100

72 32.4 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.103 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

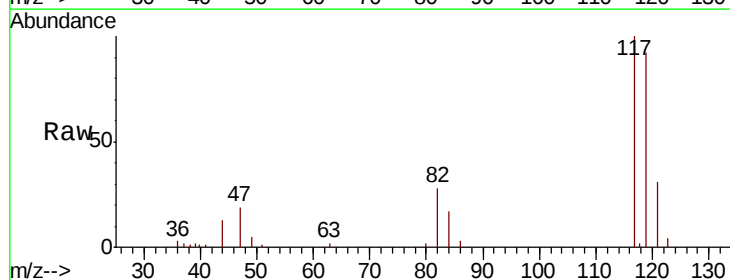
Tgt Ion: 117 Resp: 23367

Ion Ratio Lower Upper

117 100

119 90.8 77.7 116.5

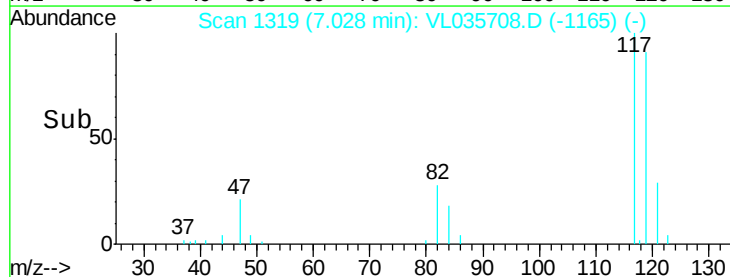
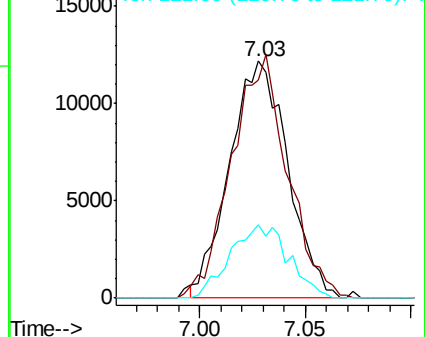
121 31.2 26.9 40.3

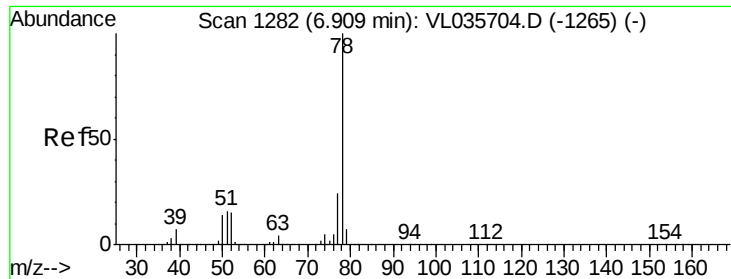


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.077 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

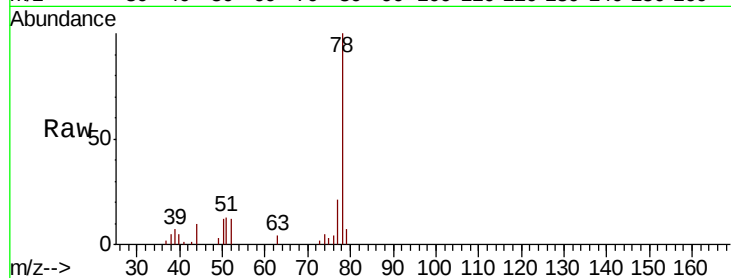
Tot Ion: 78 Resp: 22793

Ion Ratio Lower Upper

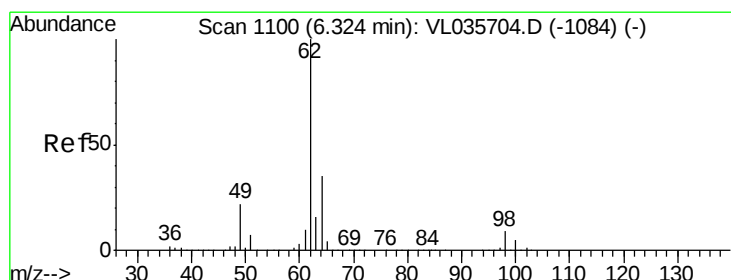
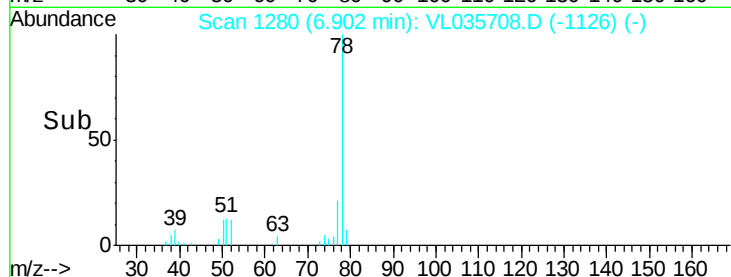
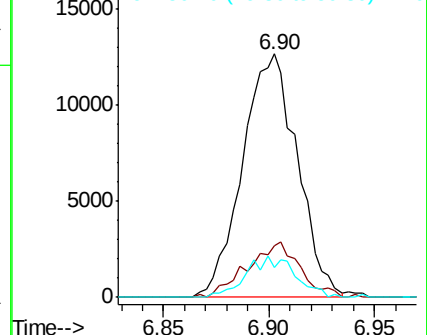
78 100

77 21.3 19.3 28.9

50 12.4 11.6 17.4



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: 0.118 ppbv

RT: 6.31 min Scan# 1097

Delta R.T. -0.01 min

Lab File: VL035708.D

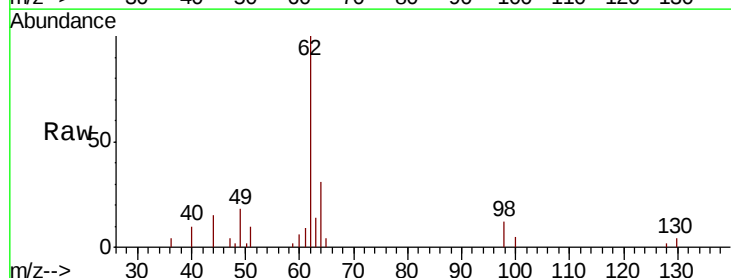
Acq: 23 Sep 2020 5:53

Tgt Ion: 62 Resp: 16738

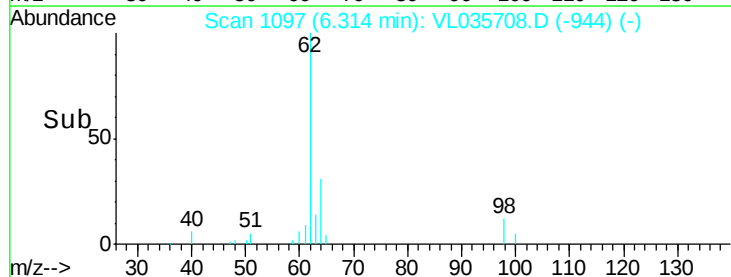
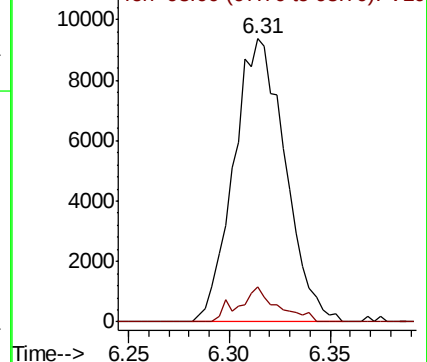
Ion Ratio Lower Upper

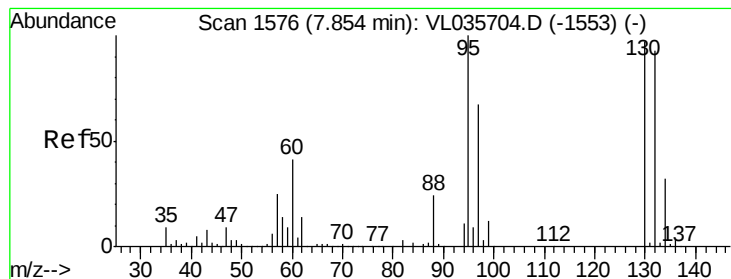
62 100

98 9.3 6.9 10.3



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.076 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:130 Resp: 12823

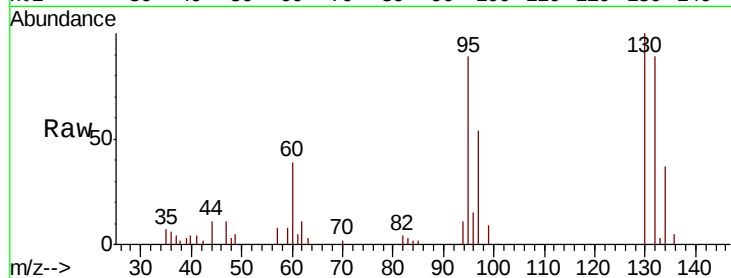
Ion Ratio Lower Upper

130 100

95 91.5 82.4 123.6

132 92.1 76.8 115.2

97 55.7 55.4 83.2

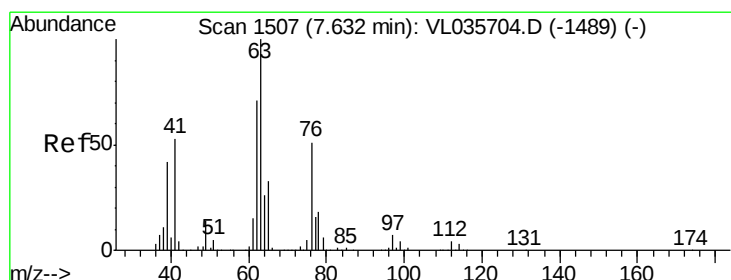
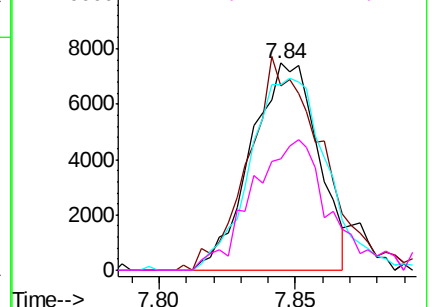
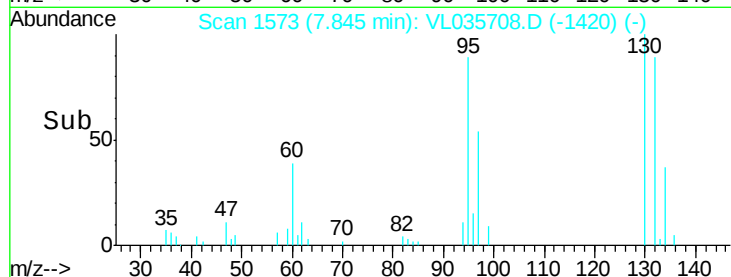


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.116 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

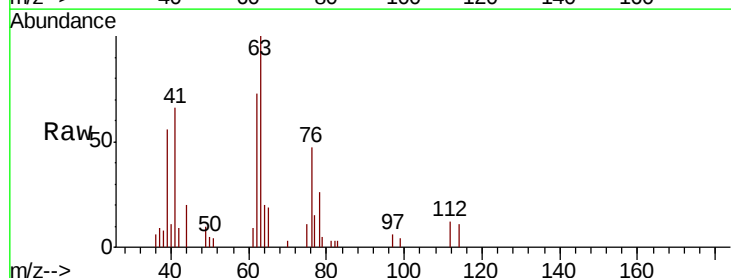
Tgt Ion: 63 Resp: 11583

Ion Ratio Lower Upper

63 100

41 65.8 42.6 63.8#

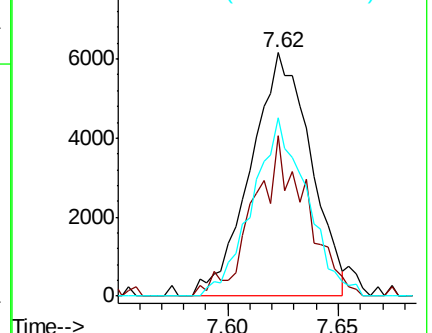
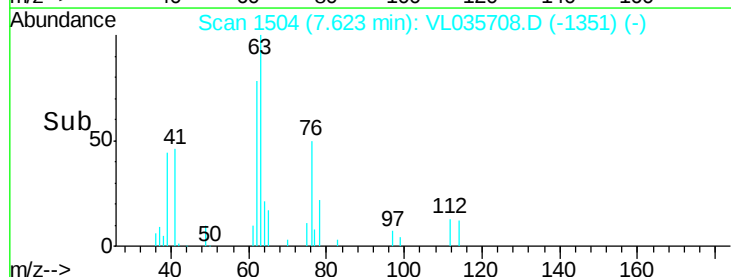
62 73.4 56.5 84.7

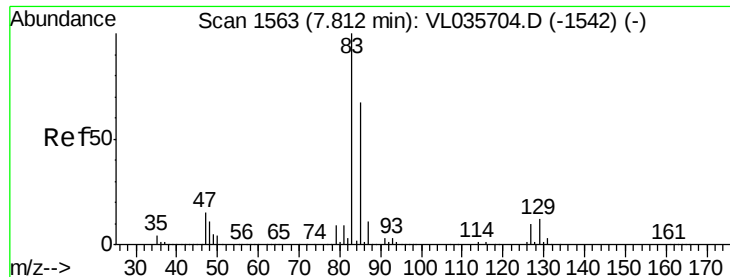


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.051 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

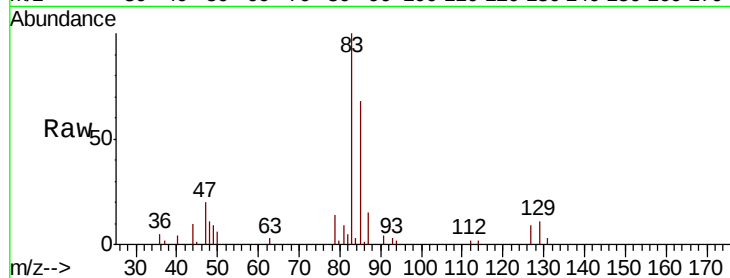
Tot Ion: 83 Resp: 11603

Ion Ratio Lower Upper

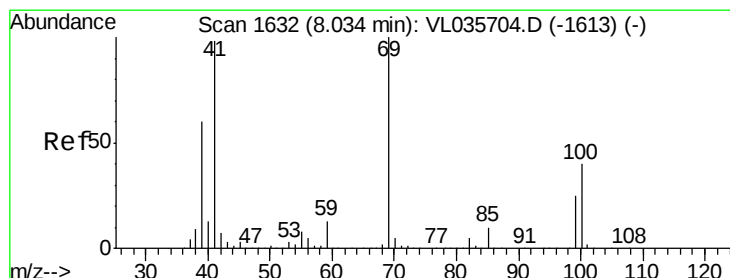
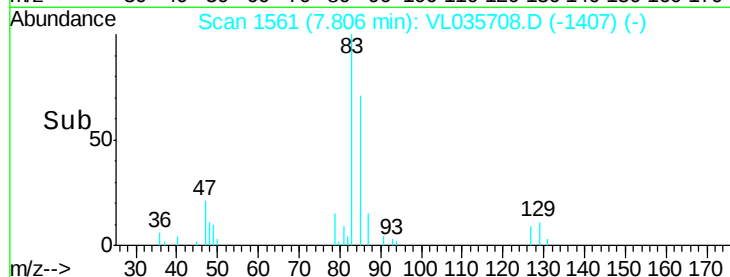
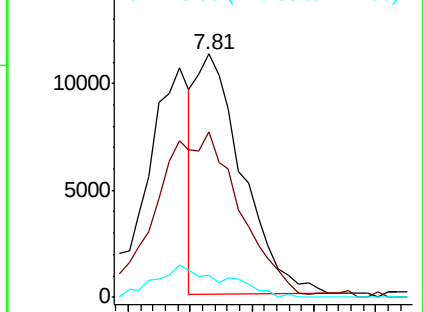
83 100

85 67.4 53.4 80.0

127 9.1 7.8 11.6



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.060 ppbv

RT: 8.03 min Scan# 1632

Delta R.T. 0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

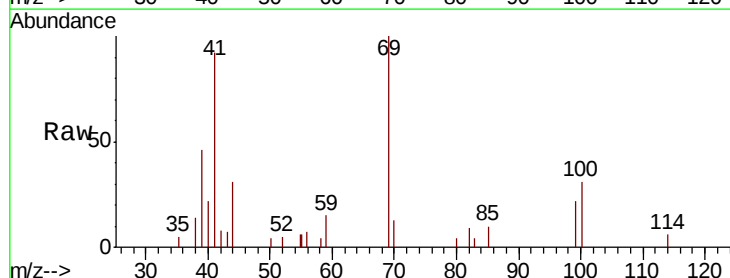
Tgt Ion: 69 Resp: 6908

Ion Ratio Lower Upper

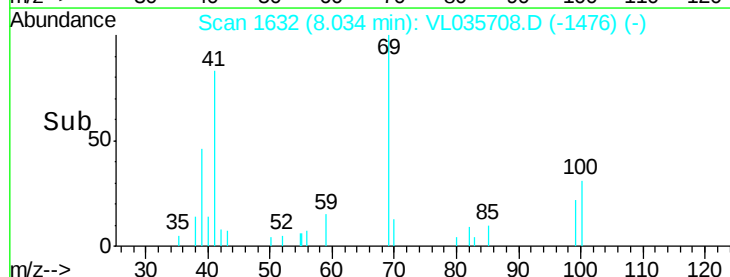
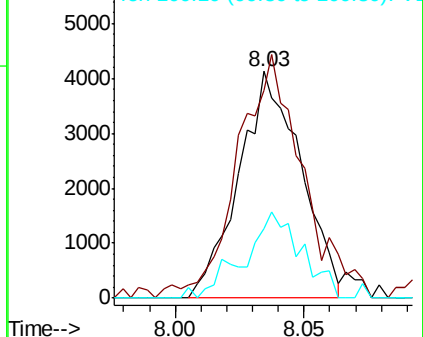
69 100

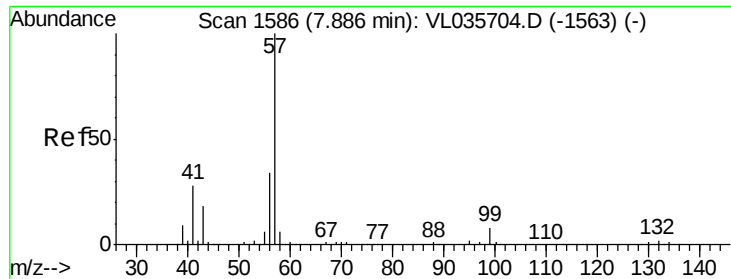
41 114.7 79.8 119.6

100 36.0 30.6 46.0



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

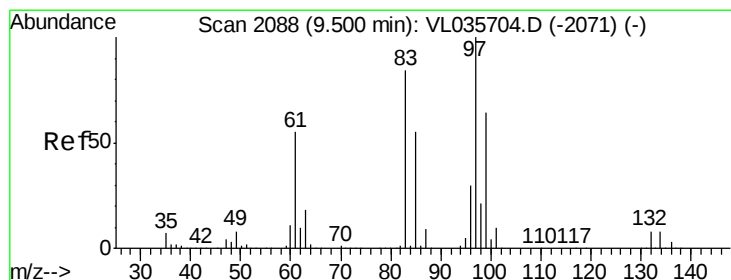
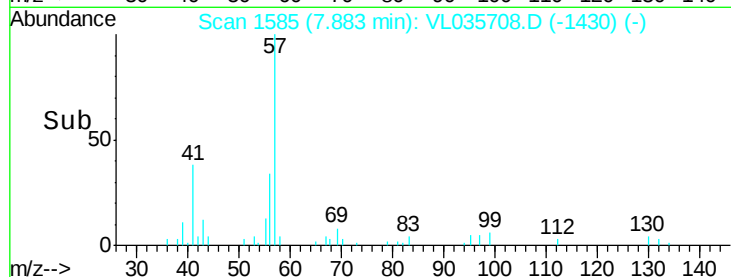
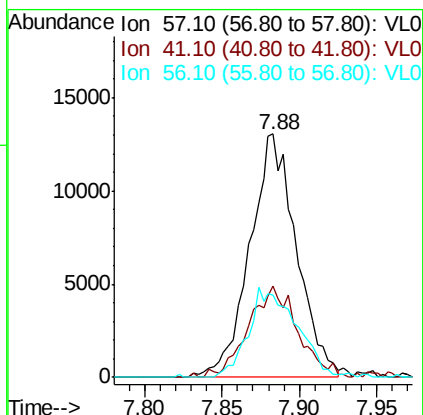
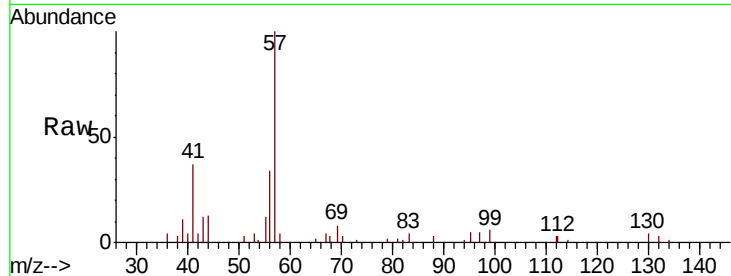




#44
 2,2,4-Trimethylpentane
 Concen: 0.070 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

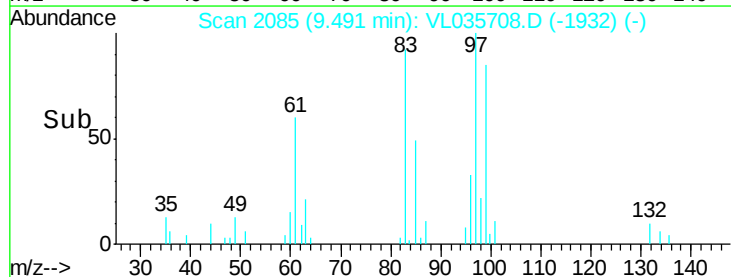
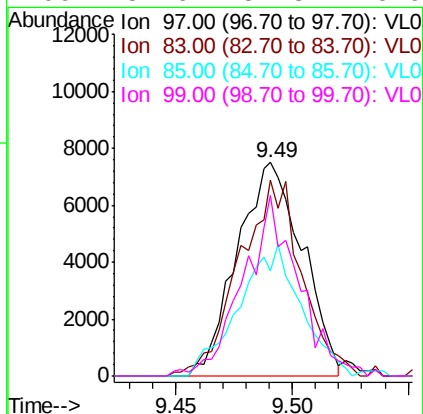
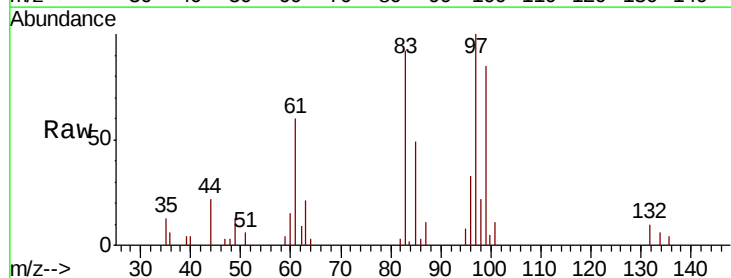
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

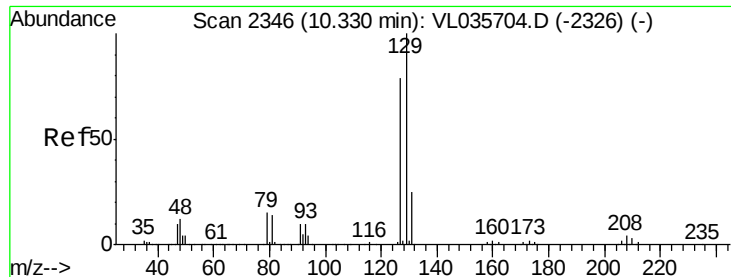
Tot Ion	Ratio	Lower	Upper
57	100		
41	39.8	21.2	31.8#
56	38.3	25.8	38.8



#47
 1,1,2-Trichloroethane
 Concen: 0.100 ppbv
 RT: 9.49 min Scan# 2085
 Delta R.T. -0.01 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.5	67.1	100.7
85	49.3	43.9	65.9
99	82.6	51.3	76.9#

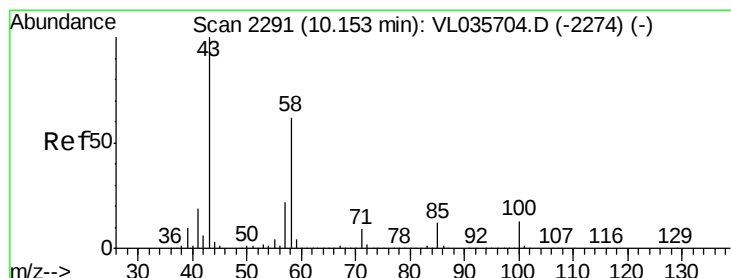
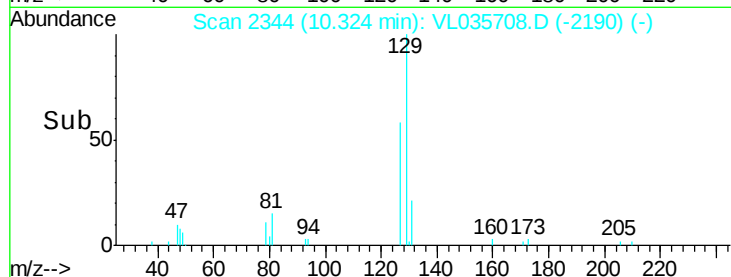
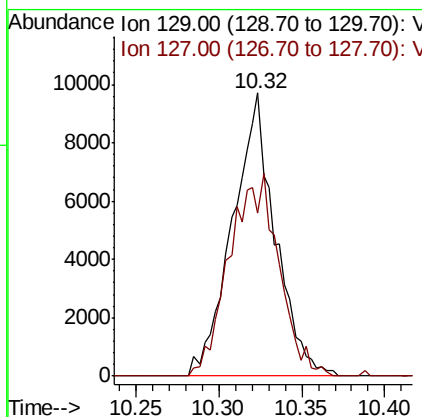
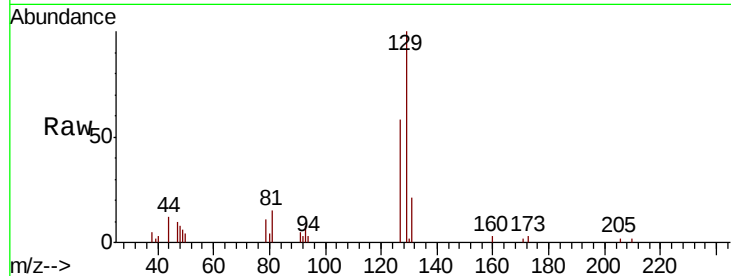




#48
 Dibromochloromethane
 Concen: 0.076 ppbv
 RT: 10.32 min Scan# 2344
 Delta R.T. -0.01 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

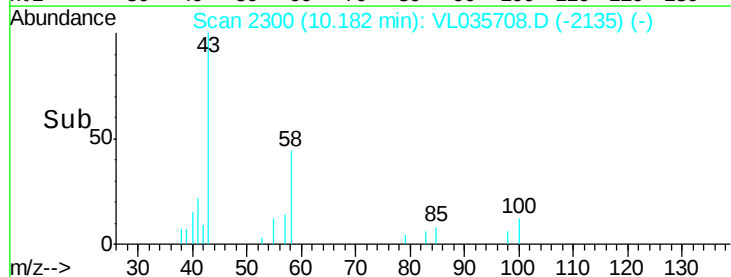
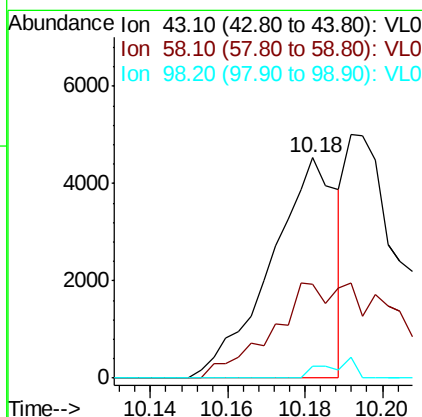
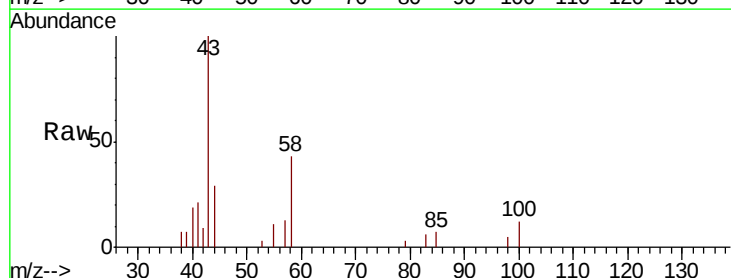
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

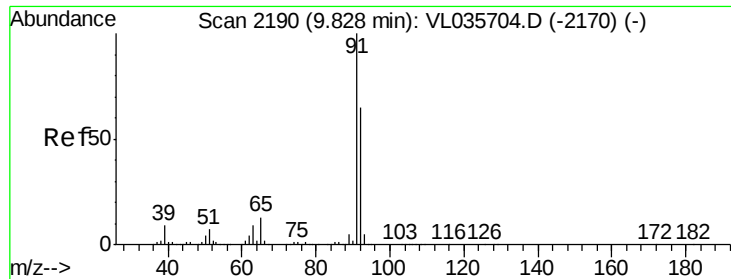
Tot Ion:129 Resp: 17330
 Ion Ratio Lower Upper
 129 100
 127 82.6 39.4 118.1



#51
 2-Hexanone
 Concen: 0.033 ppbv
 RT: 10.18 min Scan# 2300
 Delta R.T. 0.03 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

Tgt Ion: 43 Resp: 5387
 Ion Ratio Lower Upper
 43 100
 58 90.8 48.7 73.1#
 98 0.0 0.7 1.1#





#53

Toluene

Concen: 0.035 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

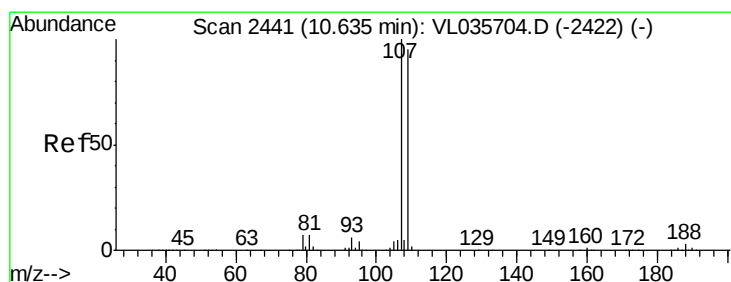
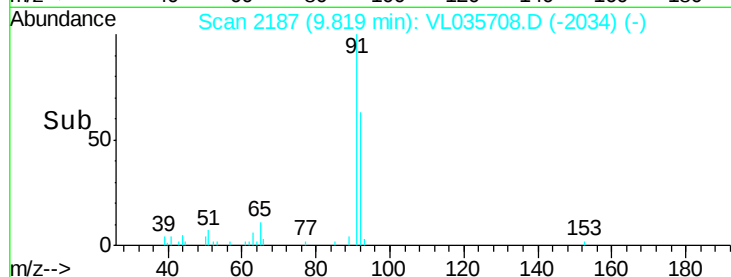
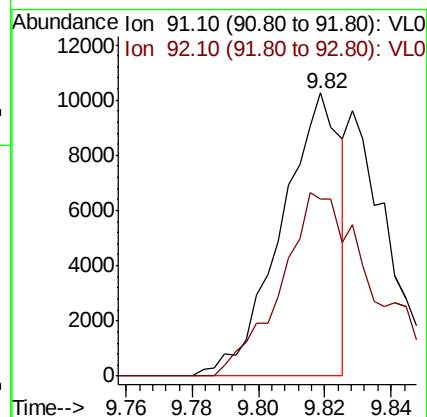
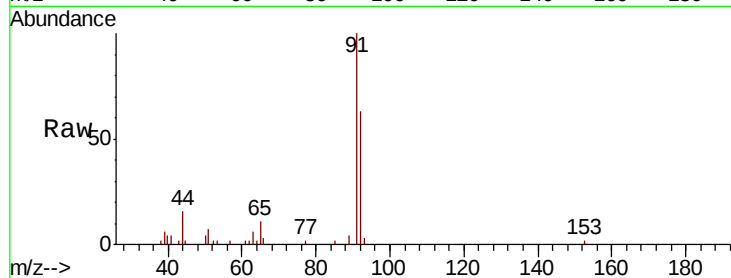
VSTDIC0.1

Tot Ion: 91 Resp: 12838

Ion Ratio Lower Upper

91 100

92 99.9 50.0 75.0#



#54

1,2-Dibromoethane

Concen: 0.054 ppbv

RT: 10.62 min Scan# 2437

Delta R.T. -0.01 min

Lab File: VL035708.D

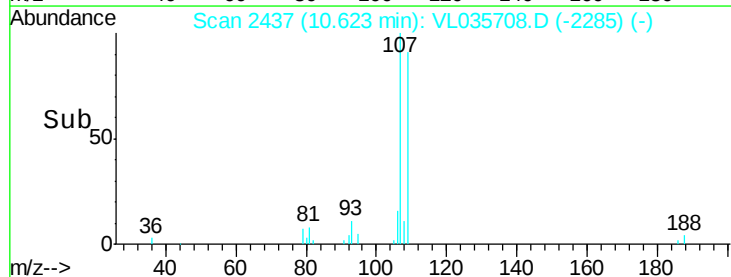
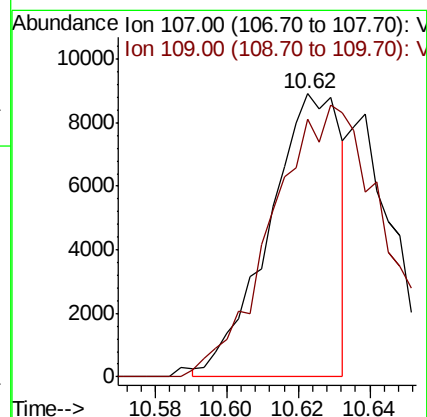
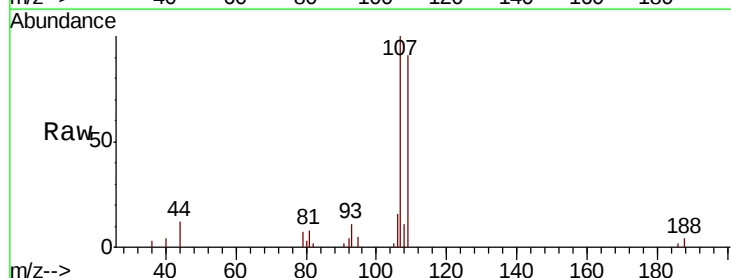
Acq: 23 Sep 2020 5:53

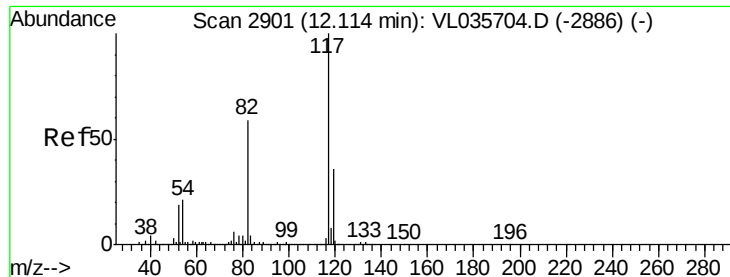
Tgt Ion: 107 Resp: 12421

Ion Ratio Lower Upper

107 100

109 91.2 76.0 114.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

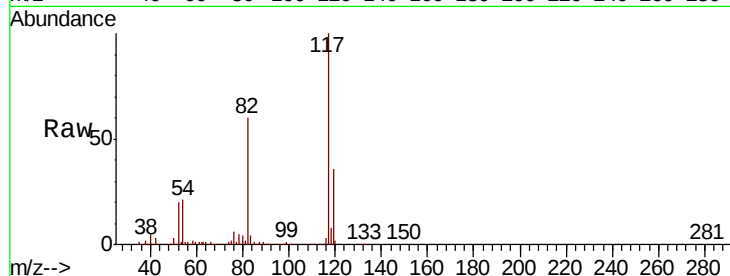
Tot Ion:117 Resp: 4466457

Ion Ratio Lower Upper

117 100

82 58.8 46.1 69.1

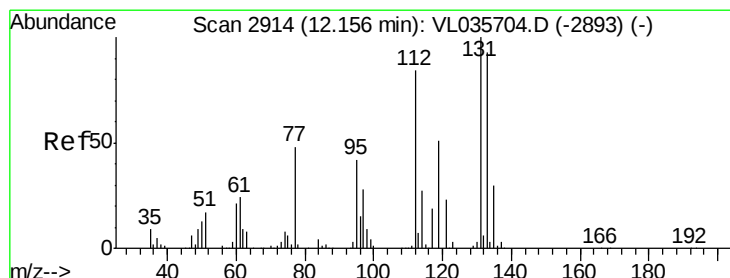
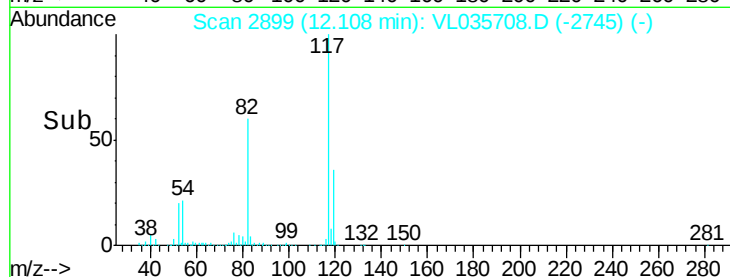
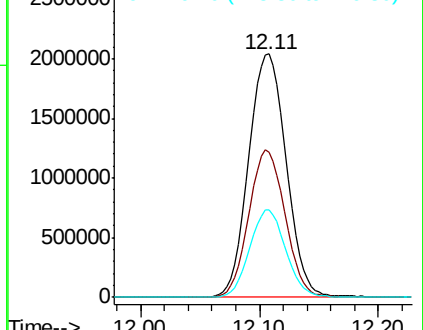
119 35.0 28.0 42.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.074 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

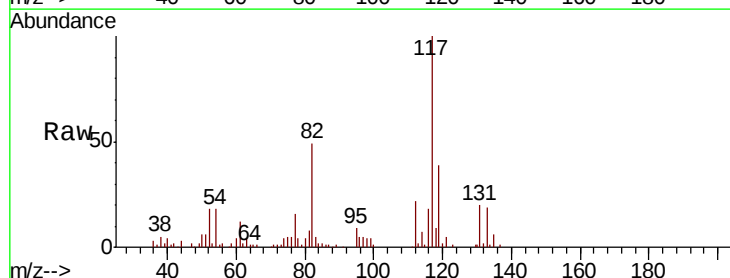
Tgt Ion:131 Resp: 13529

Ion Ratio Lower Upper

131 100

133 132.5 76.2 114.4#

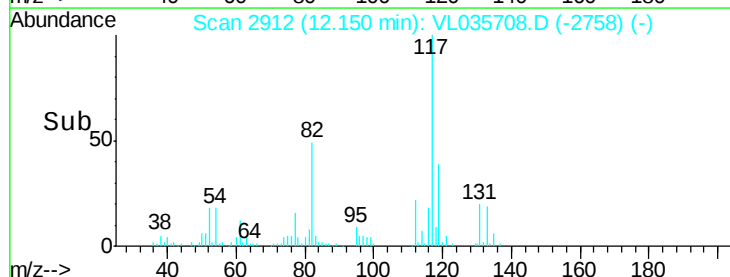
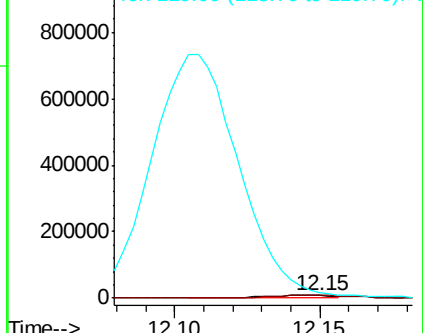
119 11541.6 52.4 78.6#

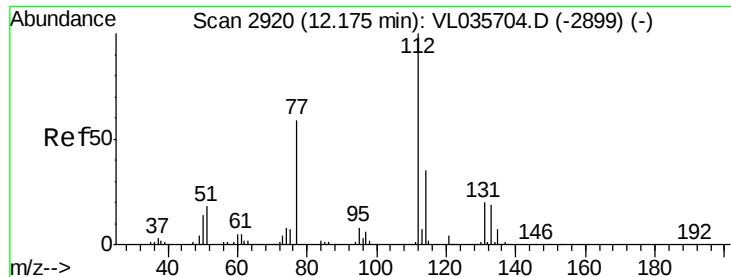


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

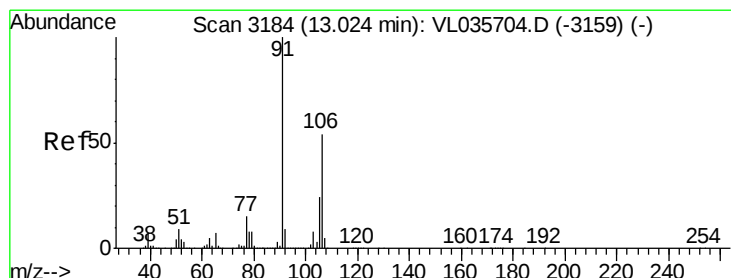
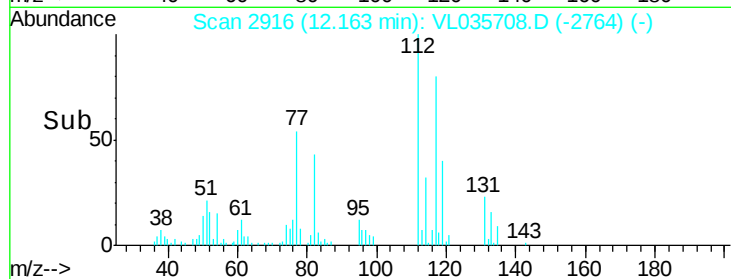
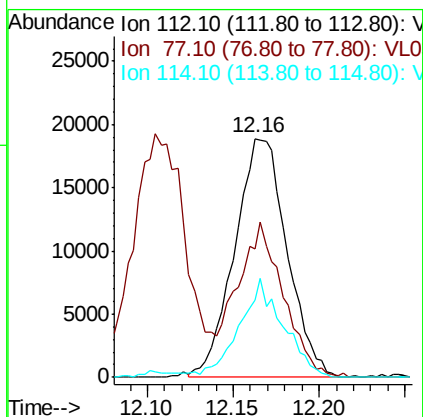
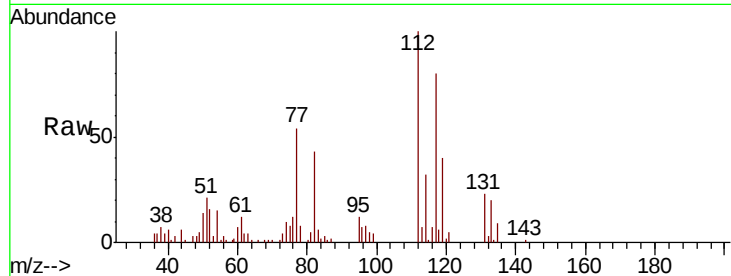




#57
Chlorobenzene
Concen: 0.120 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. -0.01 min
Lab File: VL035708.D
Acq: 23 Sep 2020 5:53

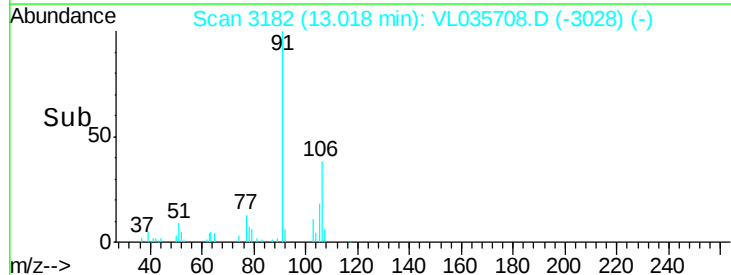
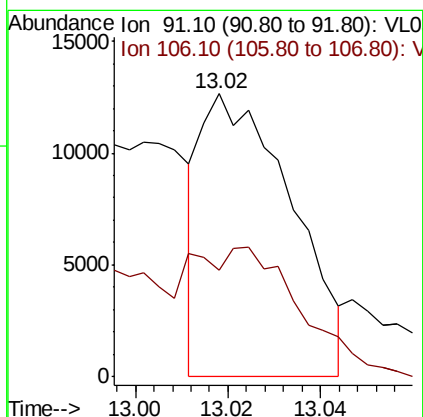
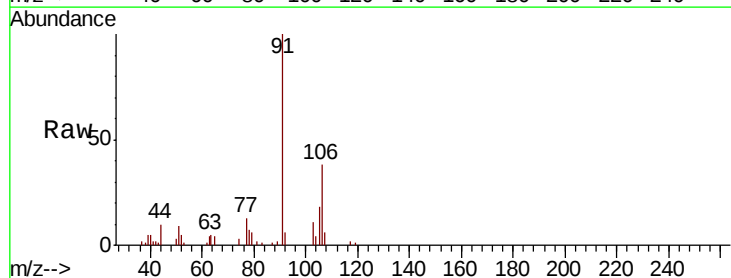
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

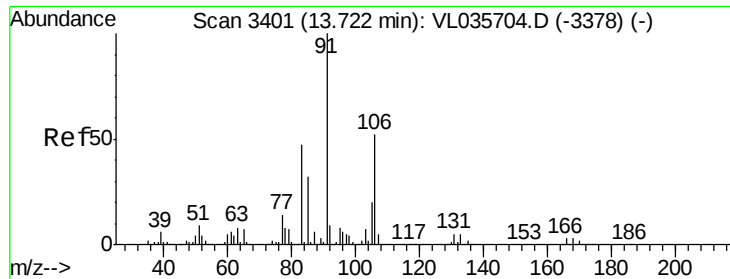
Tot Ion:112 Resp: 39989
Ion Ratio Lower Upper
112 100
77 52.7 48.2 72.2
114 32.1 31.9 39.1



#59
m/p-Xylene
Concen: 0.043 ppbv
RT: 13.02 min Scan# 3182
Delta R.T. -0.01 min
Lab File: VL035708.D
Acq: 23 Sep 2020 5:53

Tgt Ion: 91 Resp: 17091
Ion Ratio Lower Upper
91 100
106 55.9 41.4 62.0

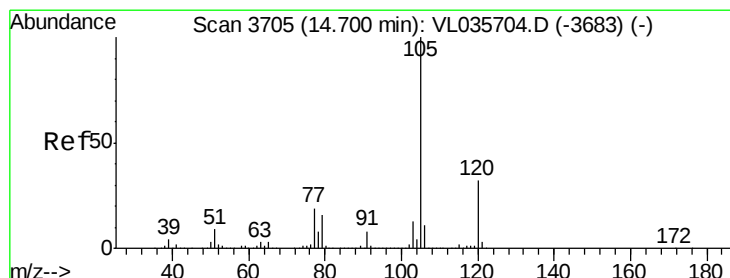
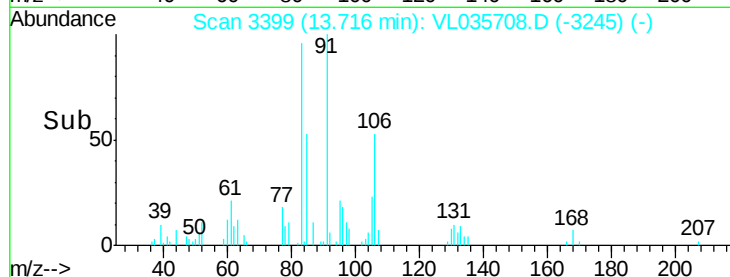
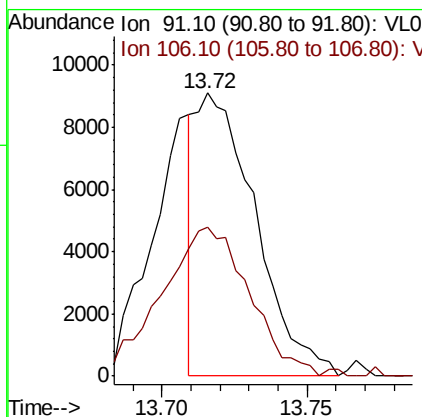
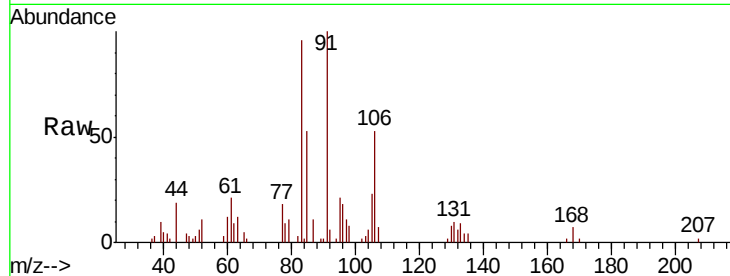




#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL035708.D
Acq: 23 Sep 2020 5:53

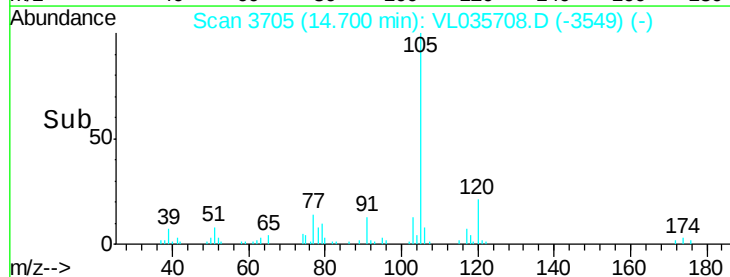
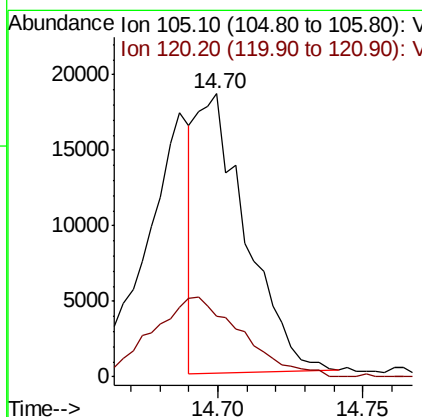
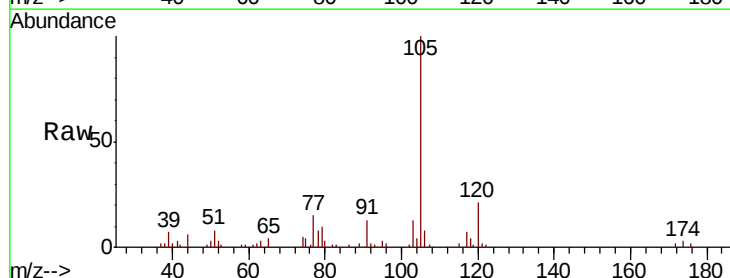
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

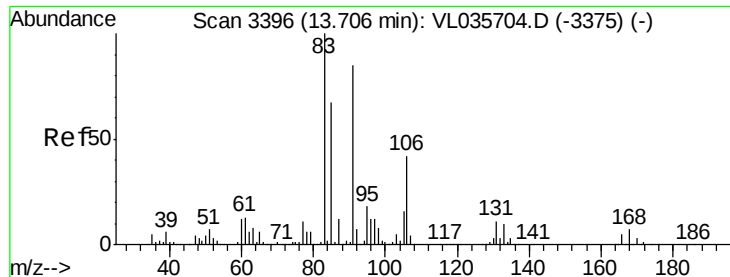
Tot Ion: 91 Resp: 12909
Ion Ratio Lower Upper
91 100
106 79.0 25.0 75.0#



#62
Isopropylbenzene
Concen: 0.035 ppbv
RT: 14.70 min Scan# 3705
Delta R.T. 0.00 min
Lab File: VL035708.D
Acq: 23 Sep 2020 5:53

Tgt Ion: 105 Resp: 22013
Ion Ratio Lower Upper
105 100
120 52.2 24.1 36.1#

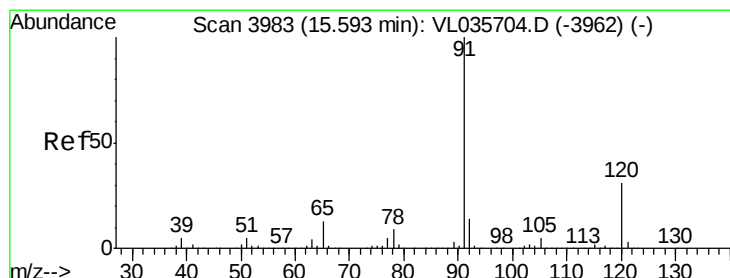
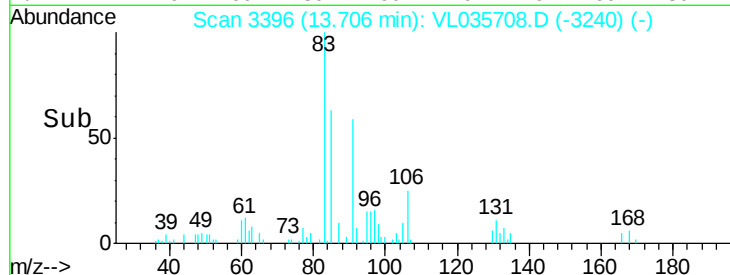
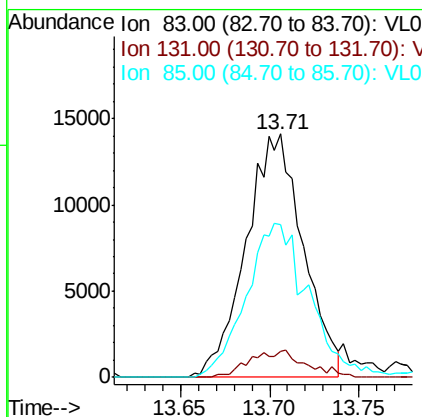
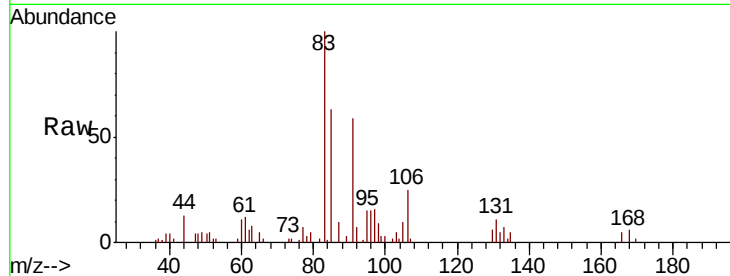




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.103 ppbv
 RT: 13.71 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

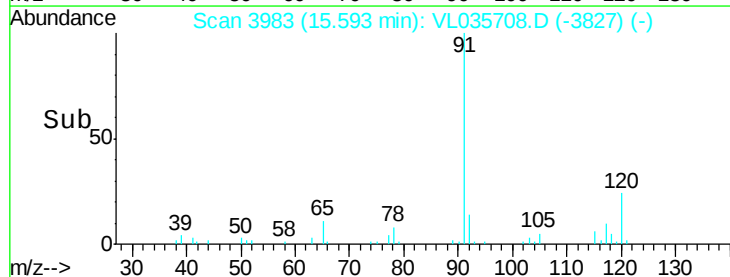
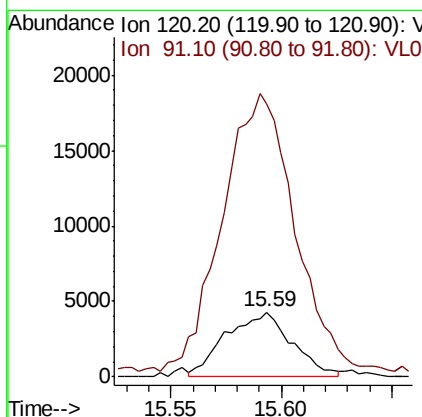
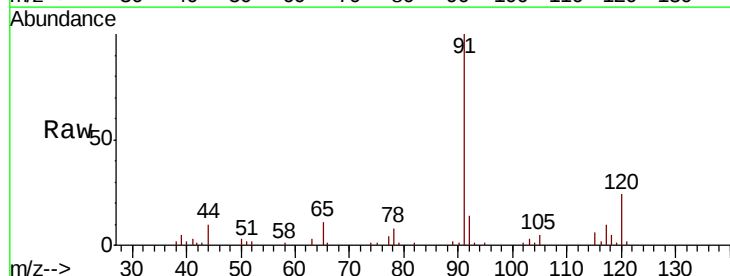
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

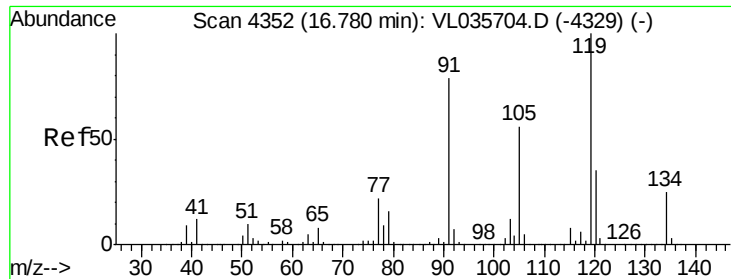
Tot Ion: 83 Resp: 31555
 Ion Ratio Lower Upper
 83 100
 131 10.9 5.3 16.1
 85 69.6 33.4 100.2



#64
 n-propylbenzene
 Concen: 0.046 ppbv
 RT: 15.59 min Scan# 3983
 Delta R.T. 0.00 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

Tgt Ion: 120 Resp: 8890
 Ion Ratio Lower Upper
 120 100
 91 518.0 300.4 450.6#





#65

tert-Butylbenzene

Concen: 0.031 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

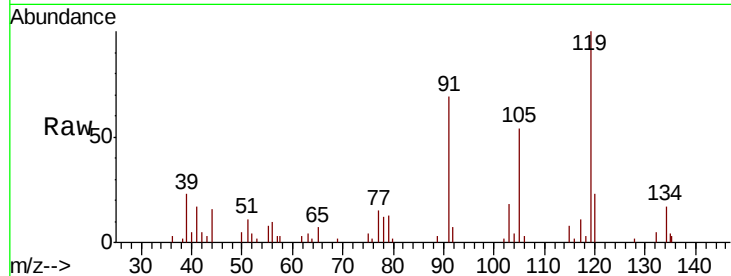
Tot Ion:119 Resp: 18407

Ion Ratio Lower Upper

119 100

91 118.2 62.4 93.6#

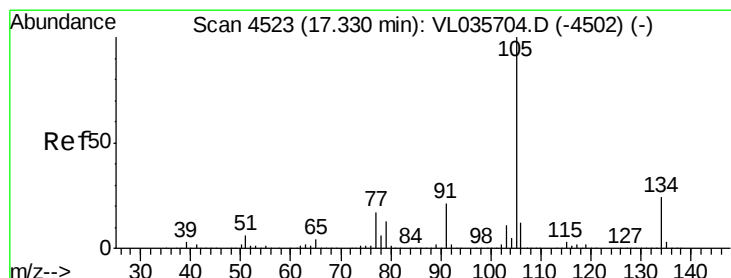
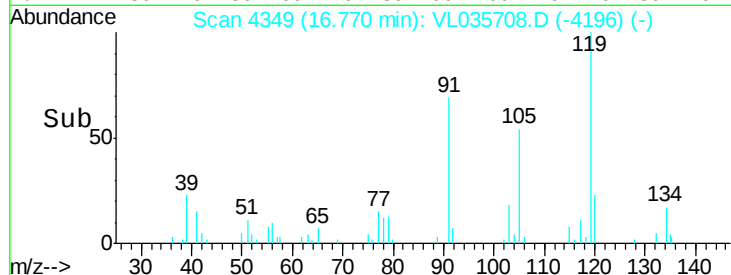
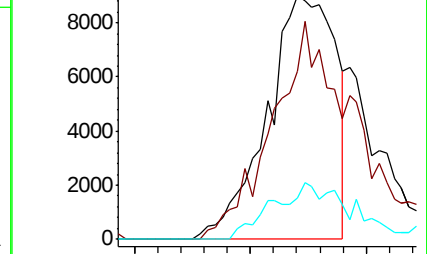
134 30.4 18.2 27.2#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#67

sec-Butylbenzene

Concen: 0.052 ppbv

RT: 17.32 min Scan# 4521

Delta R.T. -0.01 min

Lab File: VL035708.D

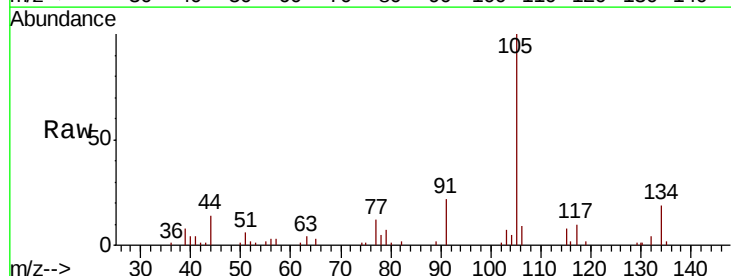
Acq: 23 Sep 2020 5:53

Tgt Ion:105 Resp: 40467

Ion Ratio Lower Upper

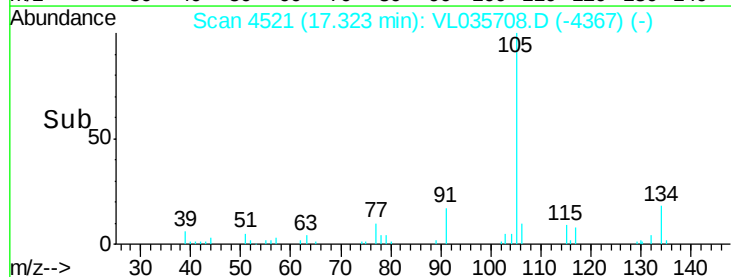
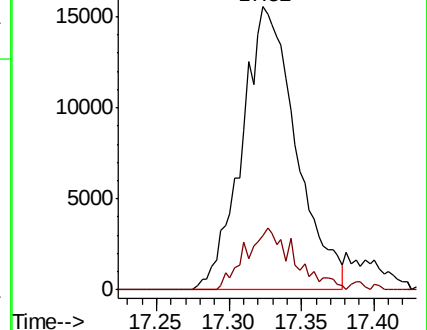
105 100

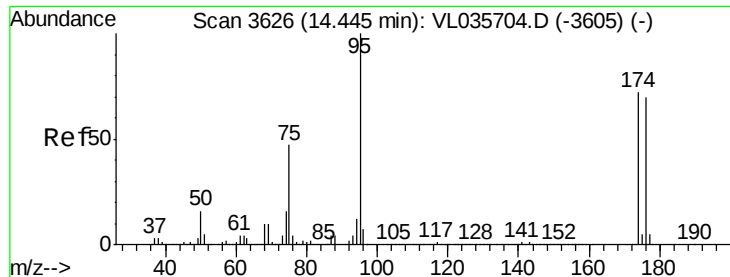
134 19.8 17.6 26.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

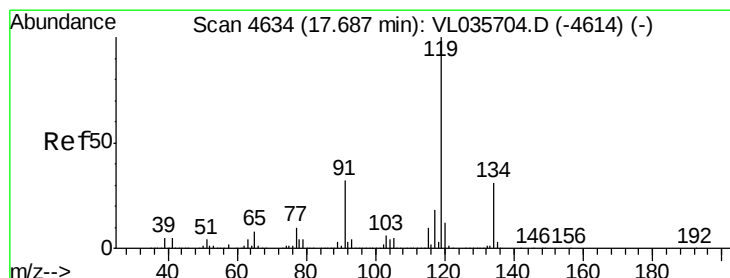
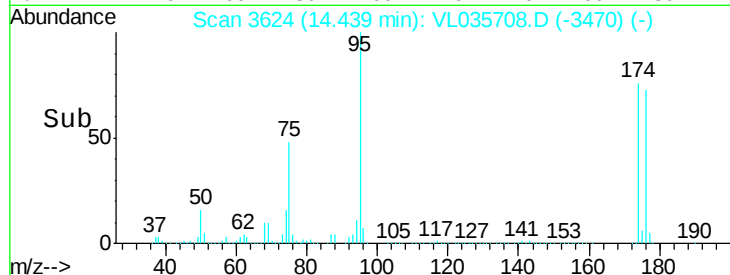
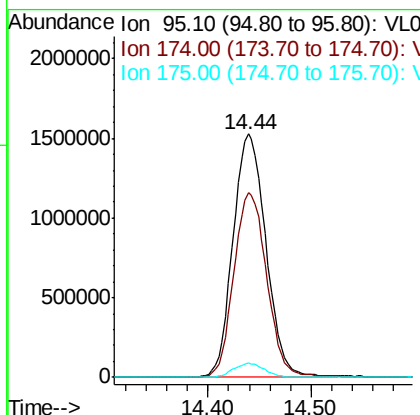
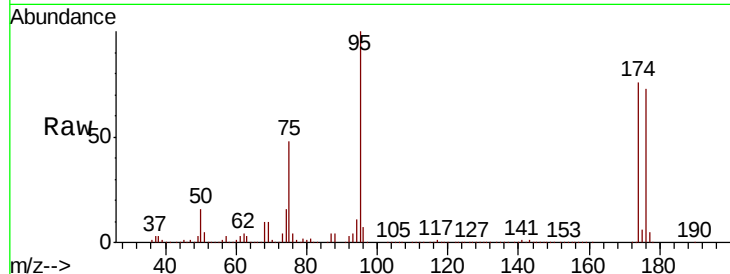




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.615 ppbv
 RT: 14.44 min Scan# 3624
 Delta R.T. -0.01 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

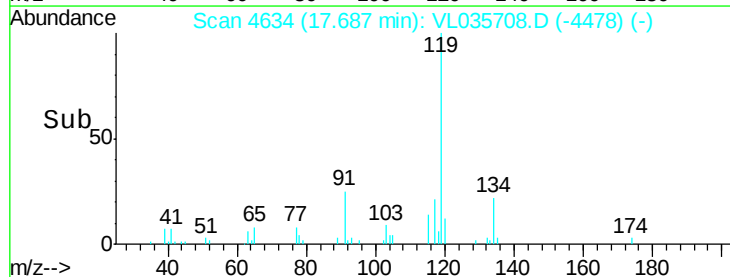
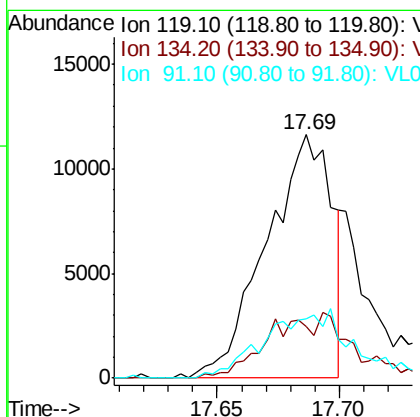
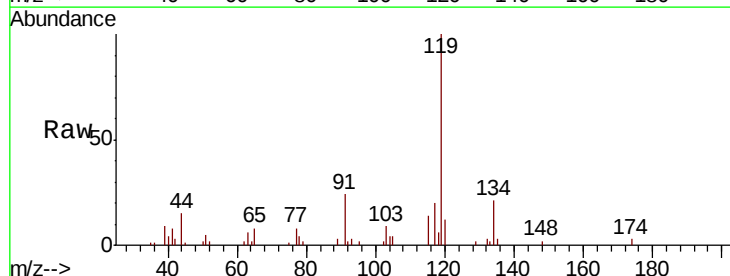
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

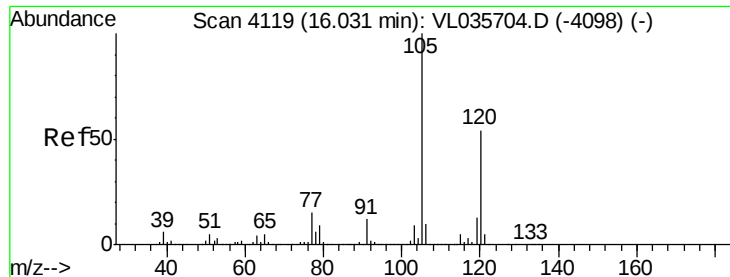
Tot Ion: 95 Resp: 3406748
 Ion Ratio Lower Upper
 95 100
 174 76.5 59.6 89.4
 175 5.5 4.2 6.4



#69
 p-Isopropyltoluene
 Concen: 0.032 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. 0.00 min
 Lab File: VL035708.D
 Acq: 23 Sep 2020 5:53

Tgt Ion: 119 Resp: 21592
 Ion Ratio Lower Upper
 119 100
 134 35.2 23.9 35.9
 91 39.2 23.8 35.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.036 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

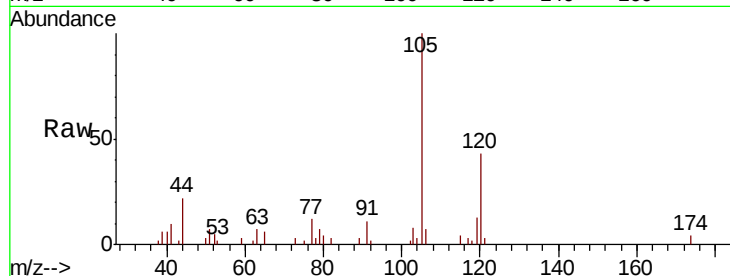
VSTDIC0.1

Tot Ion:105 Resp: 16708

Ion Ratio Lower Upper

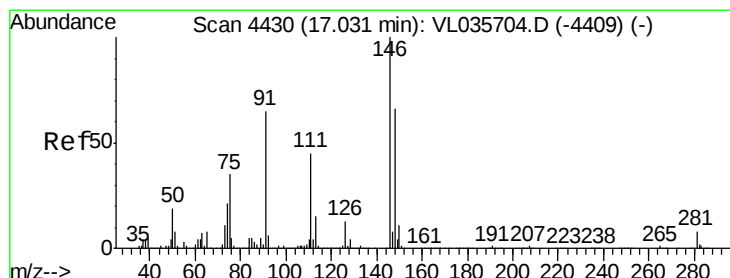
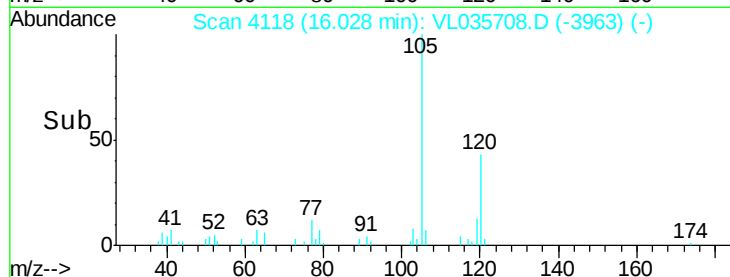
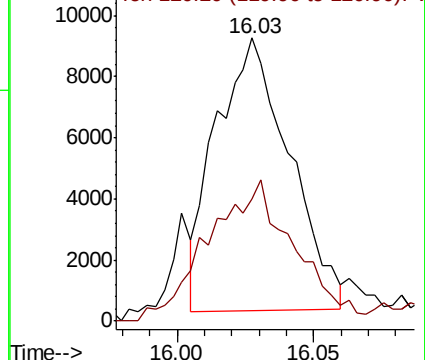
105 100

120 42.8 43.0 64.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#75

1,3-Dichlorobenzene

Concen: 0.101 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. -0.00 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

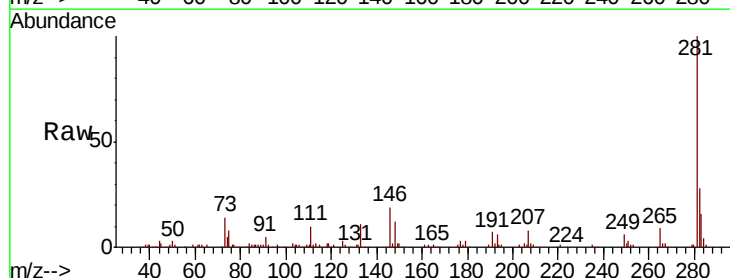
Tgt Ion:146 Resp: 37363

Ion Ratio Lower Upper

146 100

111 48.3 22.4 67.0

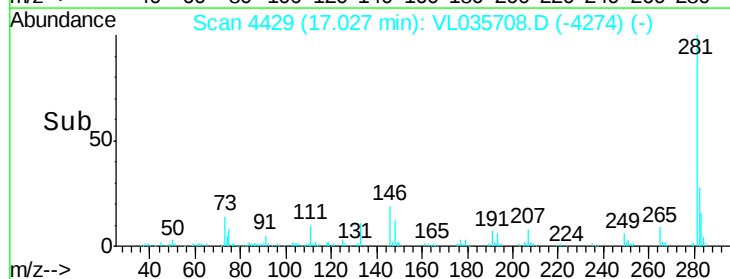
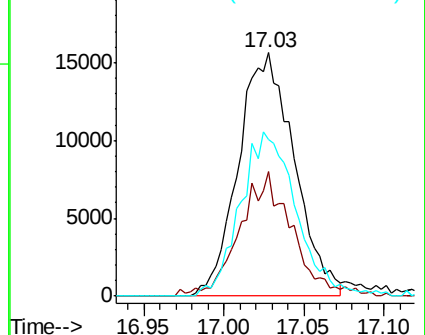
148 67.8 33.0 99.0

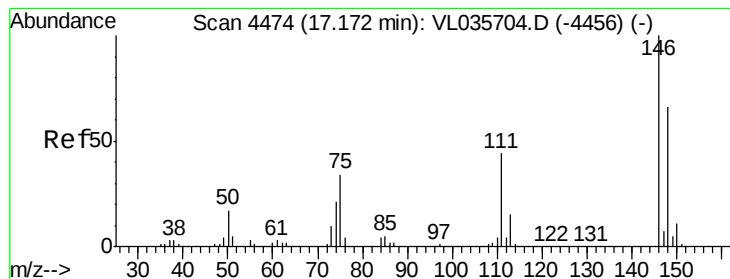


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 0.033 ppbv

RT: 17.16 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

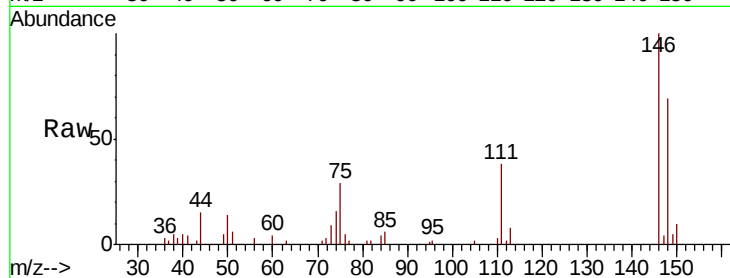
Tot Ion:146 Resp: 11962

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.3#

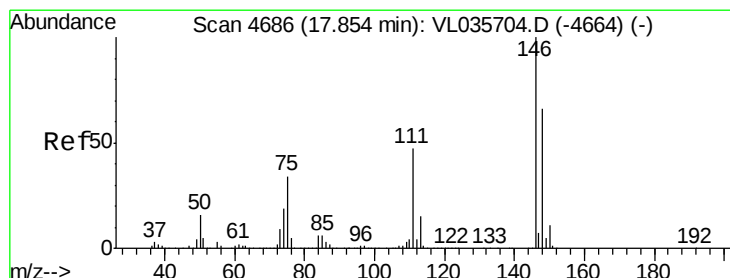
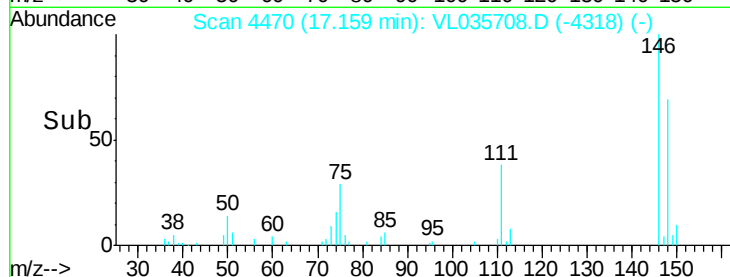
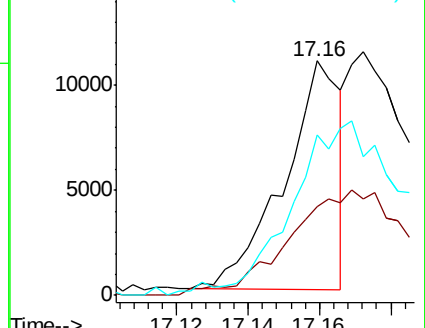
148 0.0 32.6 98.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 0.044 ppbv

RT: 17.85 min Scan# 4684

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

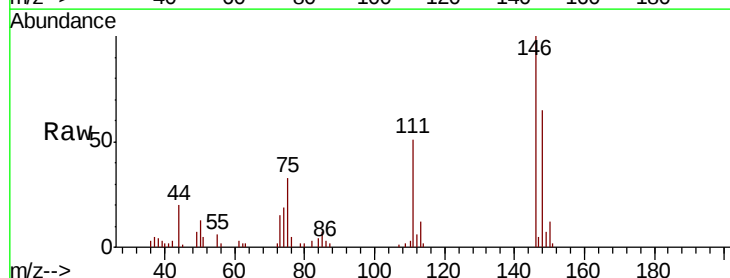
Tgt Ion:146 Resp: 15850

Ion Ratio Lower Upper

146 100

111 75.4 22.9 68.5#

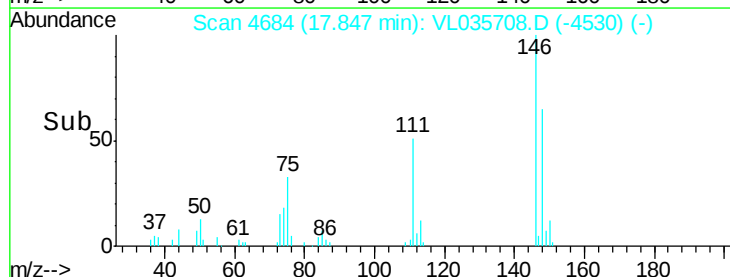
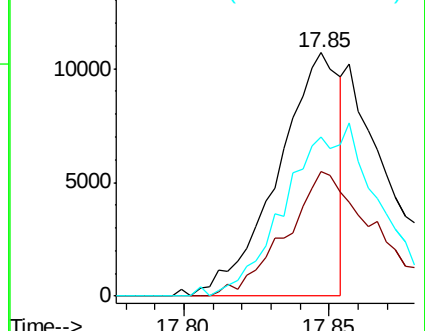
148 0.0 32.6 98.0#

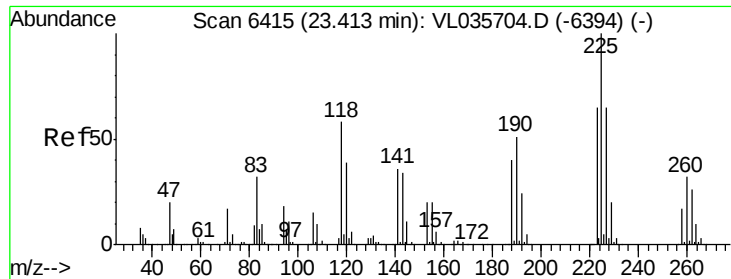


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.048 ppbv

RT: 23.41 min Scan# 6413

Delta R.T. -0.01 min

Lab File: VL035708.D

Acq: 23 Sep 2020 5:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

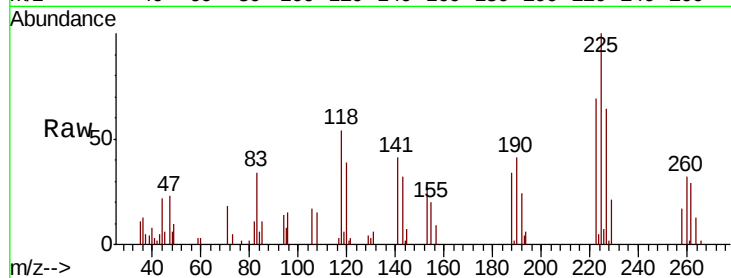
Tot Ion: 225 Resp: 10800

Ion Ratio Lower Upper

225 100

223 154.2 51.3 76.9#

227 0.0 51.6 77.4#



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

