

Data File : VL034680.D
Acq On : 26 Feb 2020 5:00
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 26 06:29:59 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 03:37:46 2020
QLast Update : Wed Feb 26 03:37:46 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1112034	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2279889	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2230809	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1857573	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.01	85	22473	0.131	ppbv	94
3) Chlorodifluoromethane	2.95	51	14846	0.110	ppbv	94
4) Chloromethane	3.10	50	7196	0.089	ppbv	89
5) Vinyl Chloride	3.23	62	6275	0.083	ppbv	90
6) Bromomethane	3.44	94	2533	0.064	ppbv #	63
7) Chloroethane	3.53	64	2343	0.085	ppbv #	65
8) Dichlorotetrafluoroethane	3.15	85	16509	0.096	ppbv	97
9) Propene	2.98	41	5629	0.103	ppbv	89
10) Heptane	8.13	43	3686	0.026	ppbv #	1
11) Trichlorofluoromethane	3.93	101	17153	0.098	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.47	101	10861	0.090	ppbv	97
14) Bromoethene	3.72	108	2767	0.056	ppbv #	17
15) Acetone	3.86	43	17663	0.117	ppbv #	72
16) 1,3-Butadiene	3.29	39	4811	0.075	ppbv #	7
17) tert-Butyl alcohol	4.31	59	12202	0.106	ppbv	98
18) 1,1-Dichloroethene	4.26	96	2334	0.043	ppbv #	1
20) Methylene Chloride	4.32	84	8539	0.155	ppbv	99
21) Allyl Chloride	4.40	41	8106	0.088	ppbv #	78
22) trans-1,2-Dichloroethene	4.87	96	3535	0.066	ppbv #	79
23) Vinyl Acetate	5.07	43	8694	0.047	ppbv #	84
24) 1,1-Dichloroethane	4.99	63	7244	0.047	ppbv	99
26) Hexane	5.67	57	2921	0.025	ppbv #	1
27) Carbon Disulfide	4.54	76	5819	0.044	ppbv #	47
28) Methyl tert-Butyl Ether	5.05	73	8289	0.050	ppbv #	64
29) Chloroform	5.74	83	6485	0.035	ppbv	90
31) cis-1,2-Dichloroethene	5.54	61	8088	0.072	ppbv #	77
32) 1,1,1-Trichloroethane	6.52	97	14505	0.086	ppbv #	85
35) Carbon Tetrachloride	7.02	117	5220	0.030	ppbv #	57
36) Benzene	6.90	78	13322	0.062	ppbv	95
37) 1,2-Dichloroethane	6.30	62	3097	0.022	ppbv #	82
38) Trichloroethene	7.85	130	2562	0.031	ppbv #	23
39) 1,2-Dichloropropane	7.18	63	653139	7.388	ppbv #	23
42) Bromodichloromethane	7.80	83	11374	0.062	ppbv #	84
44) 2,2,4-Trimethylpentane	7.88	57	23615	0.061	ppbv #	84
45) t-1,3-Dichloropropene	9.29	75	2129	0.022	ppbv	90
46) cis-1,3-Dichloropropene	8.72	75	3977	0.034	ppbv #	70
47) 1,1,2-Trichloroethane	9.49	97	7861	0.084	ppbv #	77
48) Dibromochloromethane	10.32	129	5461	0.038	ppbv #	14
49) Bromoform	13.07	173	3946	0.031	ppbv #	21
52) Tetrachloroethene	11.25	164	1635	0.022	ppbv #	37
53) Toluene	9.83	91	9709	0.042	ppbv #	81

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022620\
Quantitation Report (Not Reviewed)

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Response via : Initial Calibration

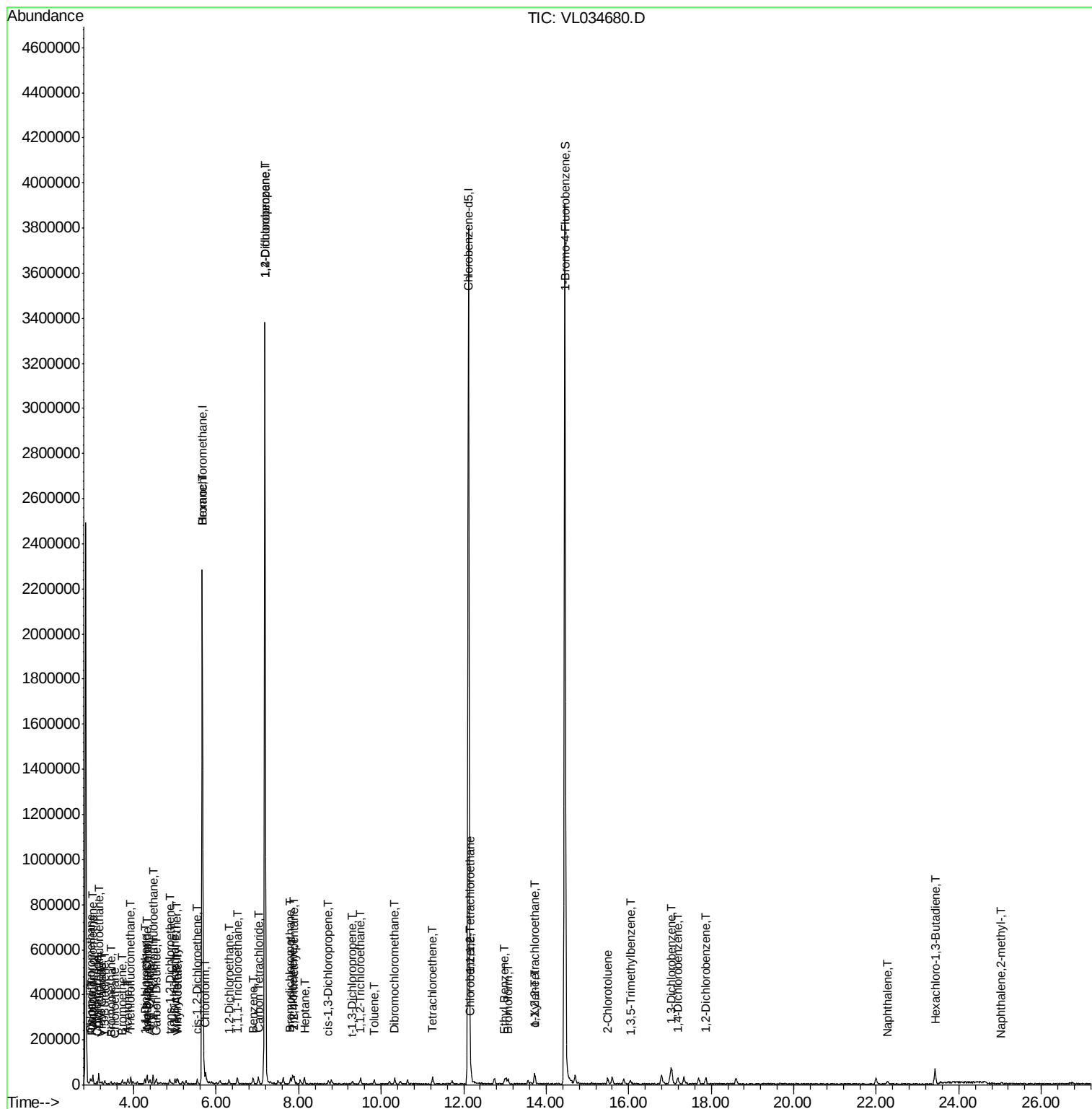
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1,1,1,2-Tetrachloroethane	12.16	131	5943	0.061	ppbv #	8
57) Chlorobenzene	12.18	112	9503	0.052	ppbv #	71
58) Ethyl Benzene	12.99	91	6435	0.022	ppbv	99
60) o-Xylene	13.73	91	6991	0.027	ppbv #	26
63) 1,1,2,2-Tetrachloroethane	13.71	83	9035	0.044	ppbv #	31
71) 2-Chlorotoluene	15.48	91	5720	0.022	ppbv #	45
73) 1,3,5-Trimethylbenzene	16.03	105	5501	0.020	ppbv #	44
75) 1,3-Dichlorobenzene	17.04	146	7241	0.042	ppbv #	1
76) 1,4-Dichlorobenzene	17.18	146	8002	0.047	ppbv #	41
77) 1,2-Dichlorobenzene	17.86	146	4228	0.025	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.43	225	4257	0.031	ppbv #	1
79) Naphthalene	22.26	128	5411	0.024	ppbv #	85
80) Naphthalene,2-methyl-	25.04	142	1049	0.022	ppbv #	94

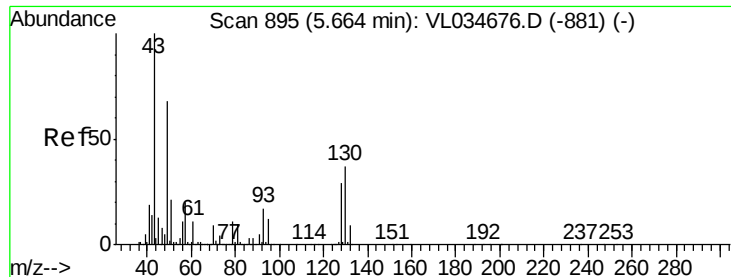
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

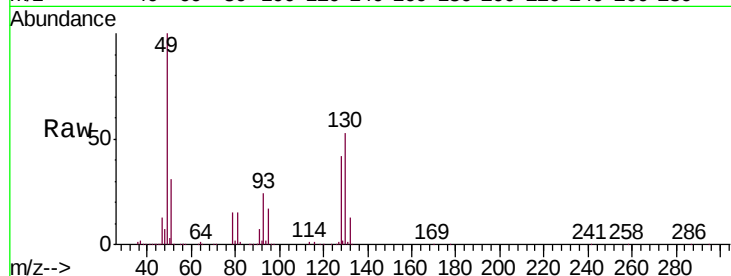
Tgt Ion: 49 Resp: 1112034

Ion Ratio Lower Upper

49 100

128 43.0 21.6 65.0

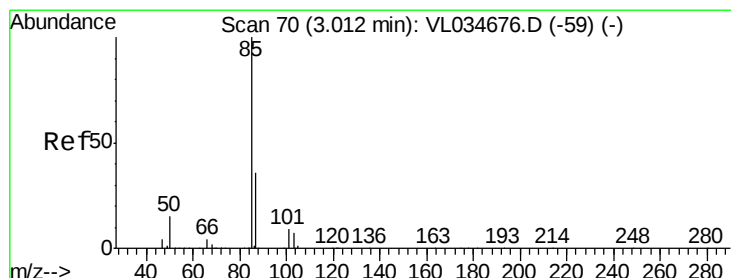
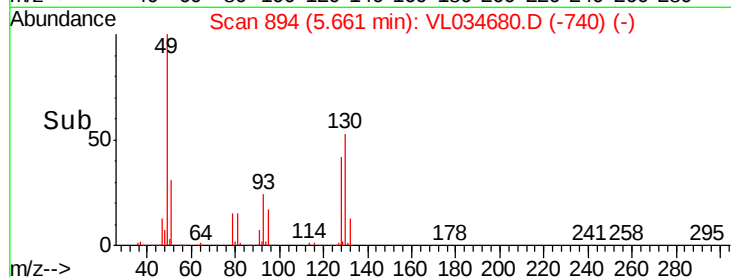
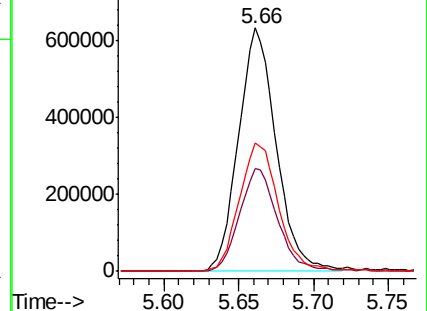
130 55.1 27.7 83.1



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: 0.131 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL034680.D

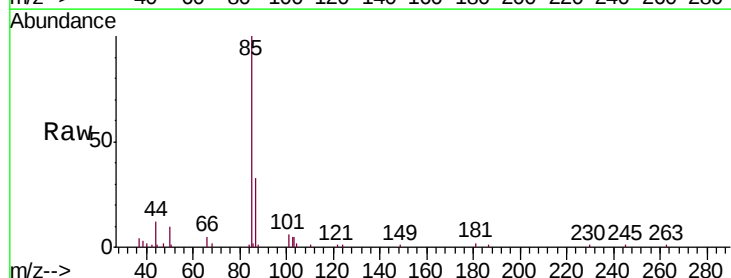
Acq: 26 Feb 2020 5:00

Tgt Ion: 85 Resp: 22473

Ion Ratio Lower Upper

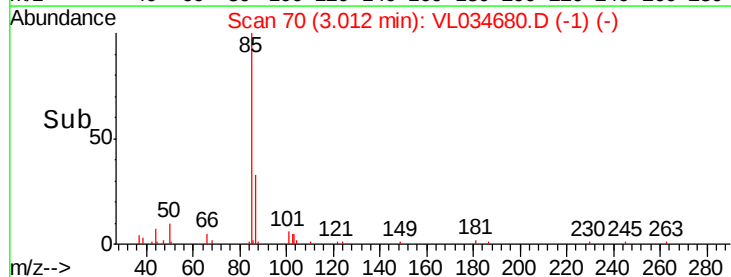
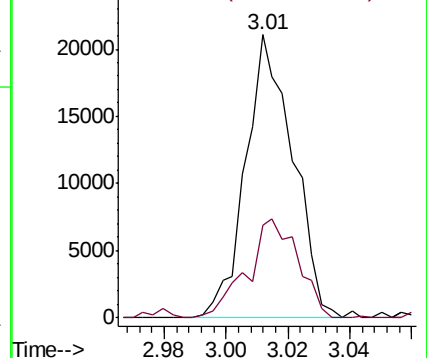
85 100

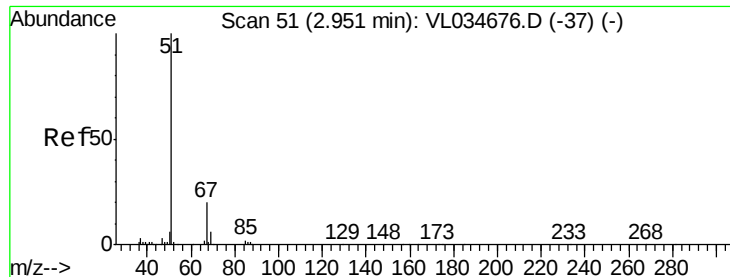
87 32.9 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

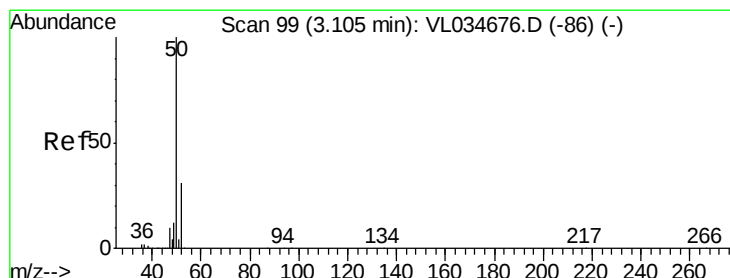
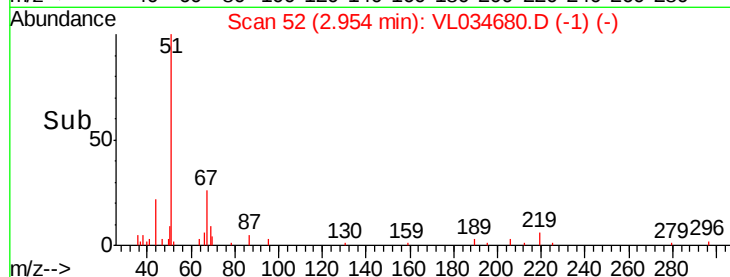
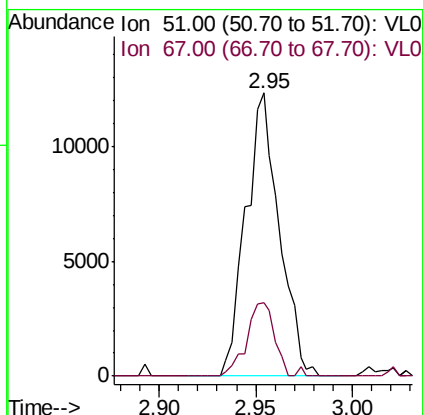
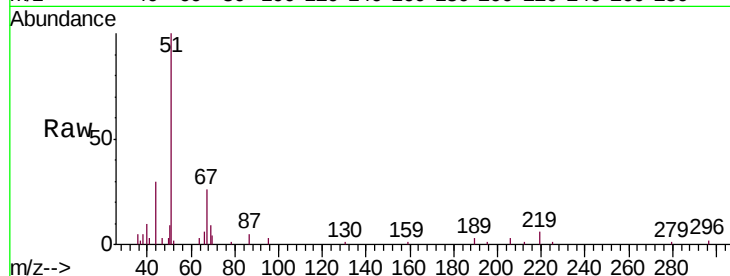




#3
 Chlorodifluoromethane
 Concen: 0.110 ppbv
 RT: 2.95 min Scan# 52
 Delta R.T. 0.00 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

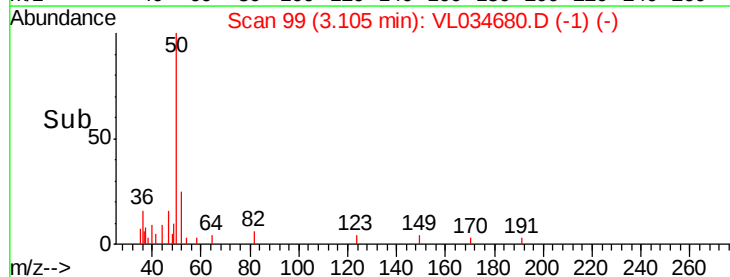
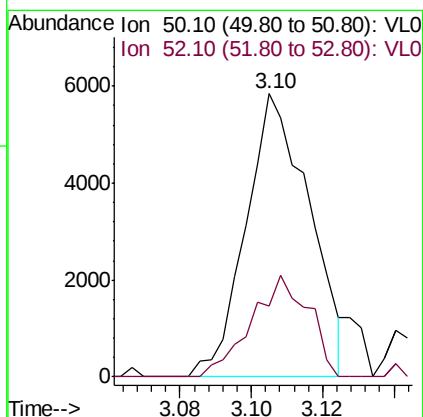
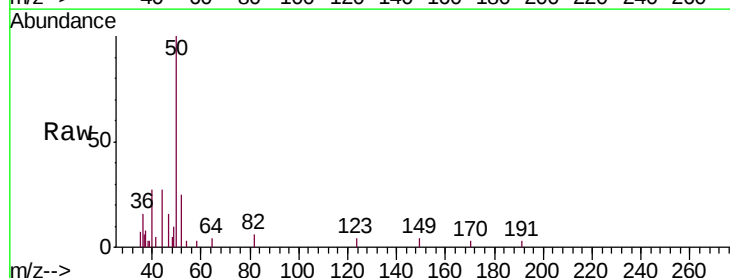
Instrument :
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 VSTDIC0.1

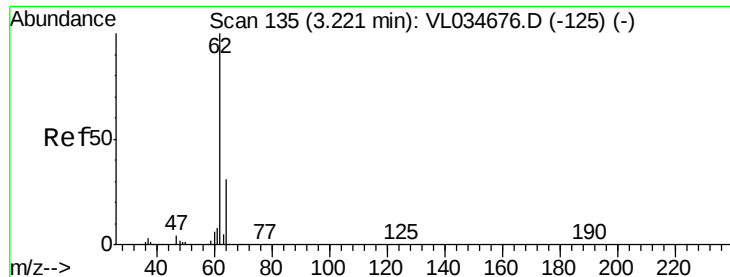
Tgt Ion: 51 Resp: 14846
 Ion Ratio Lower Upper
 51 100
 67 22.0 15.5 23.3



#4
 Chloromethane
 Concen: 0.089 ppbv
 RT: 3.10 min Scan# 99
 Delta R.T. -0.00 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

Tgt Ion: 50 Resp: 7196
 Ion Ratio Lower Upper
 50 100
 52 25.0 25.0 37.4





#5

Vinyl Chloride

Concen: 0.083 ppbv

RT: 3.23 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

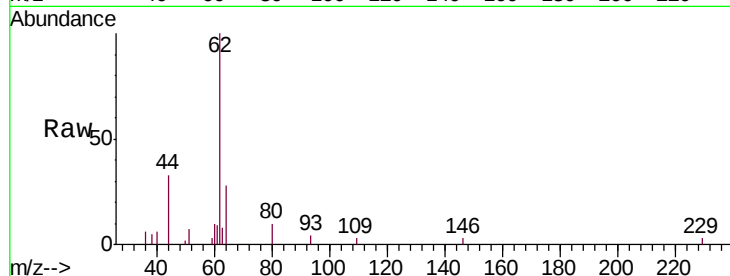
VSTDIC0.1

Tgt Ion: 62 Resp: 6275

Ion Ratio Lower Upper

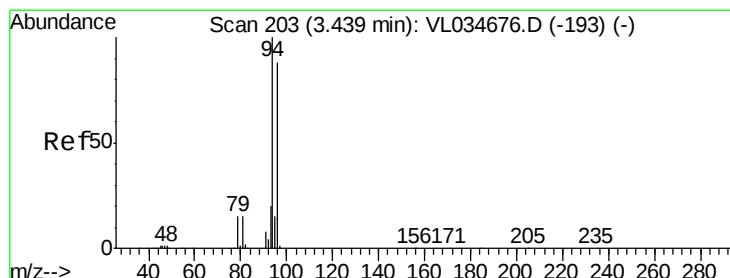
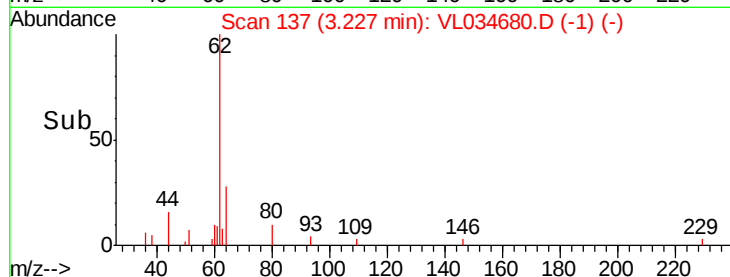
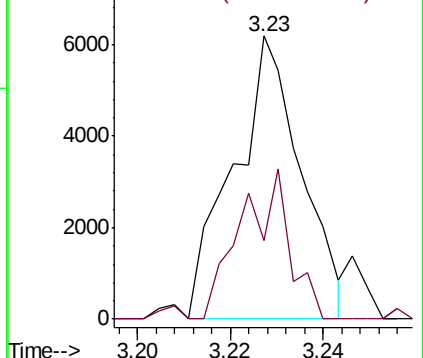
62 100

64 25.7 24.7 37.1



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.064 ppbv

RT: 3.44 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL034680.D

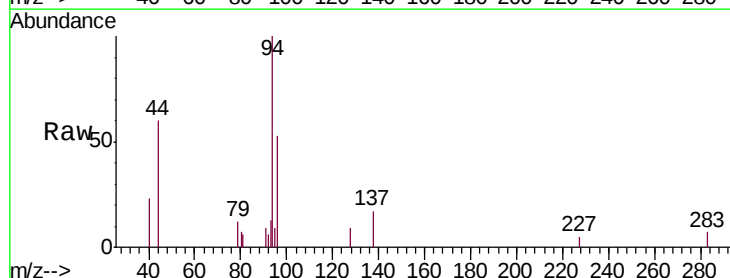
Acq: 26 Feb 2020 5:00

Tgt Ion: 94 Resp: 2533

Ion Ratio Lower Upper

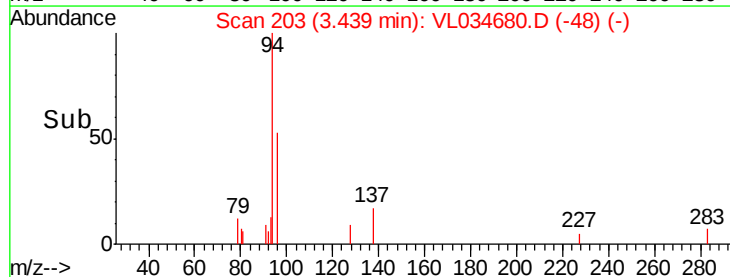
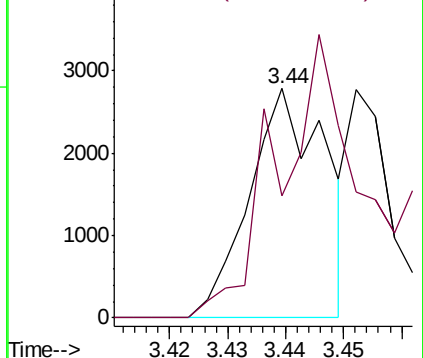
94 100

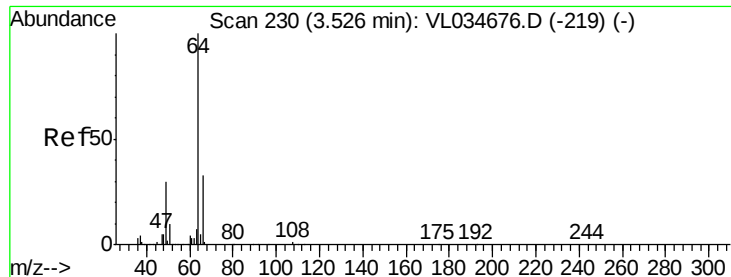
96 53.3 70.5 105.7#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.085 ppbv

RT: 3.53 min Scan# 232

Delta R.T. 0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

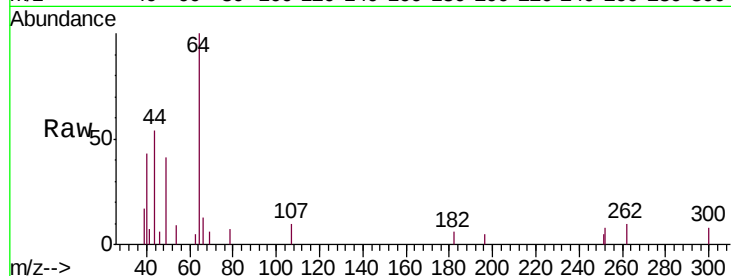
VSTDIC0.1

Tgt Ion: 64 Resp: 2343

Ion Ratio Lower Upper

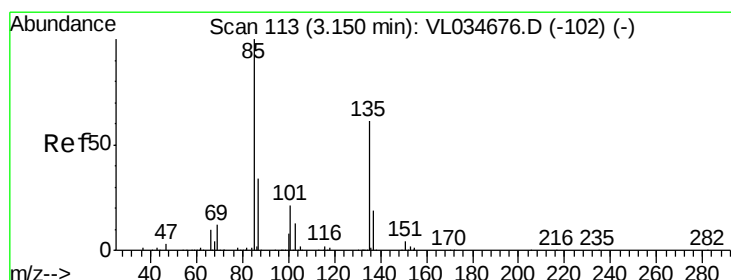
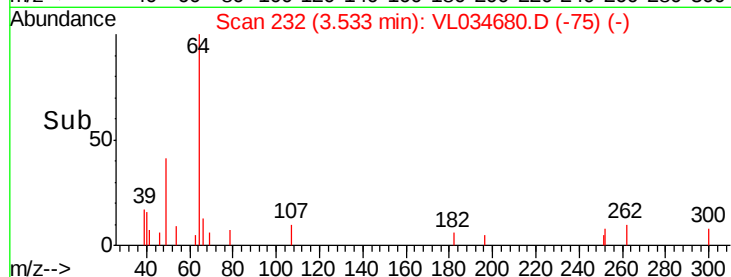
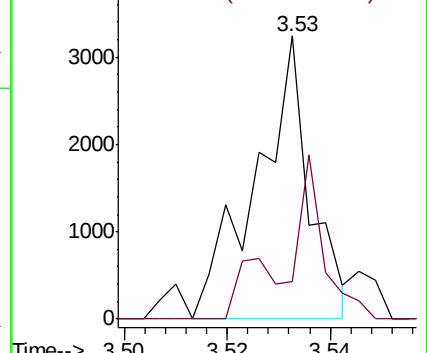
64 100

66 13.3 26.7 40.1#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.096 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034680.D

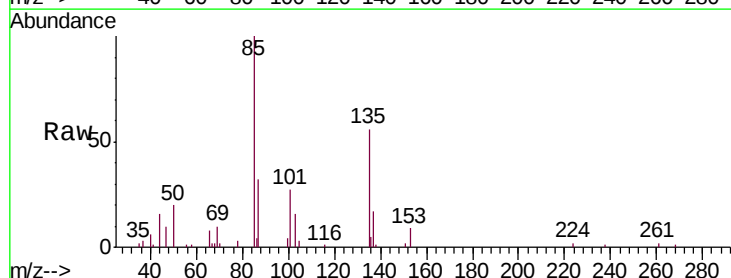
Acq: 26 Feb 2020 5:00

Tgt Ion: 85 Resp: 16509

Ion Ratio Lower Upper

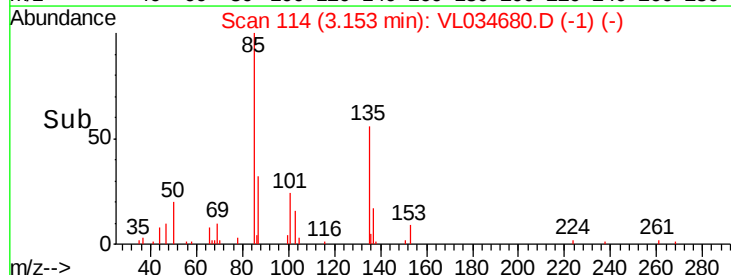
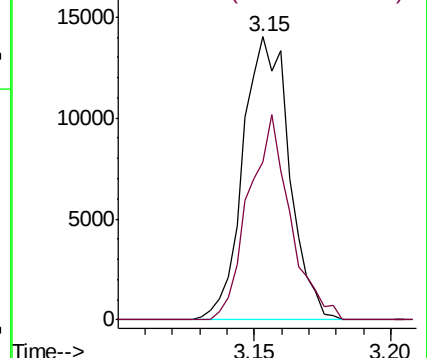
85 100

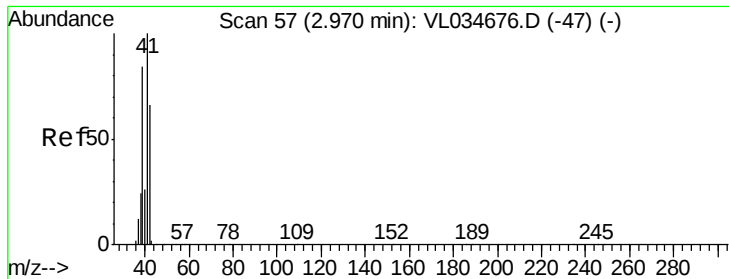
135 64.9 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.103 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

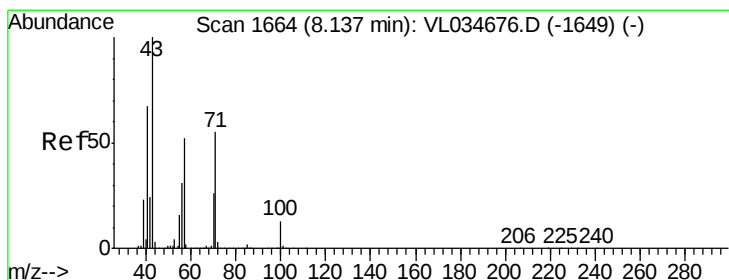
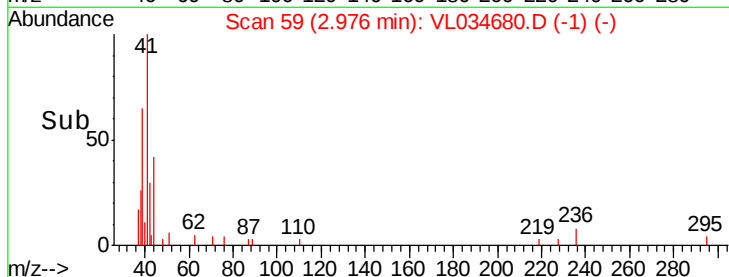
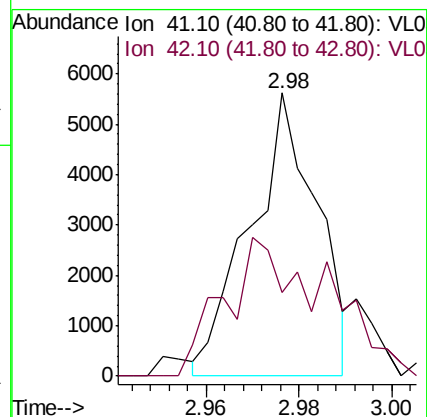
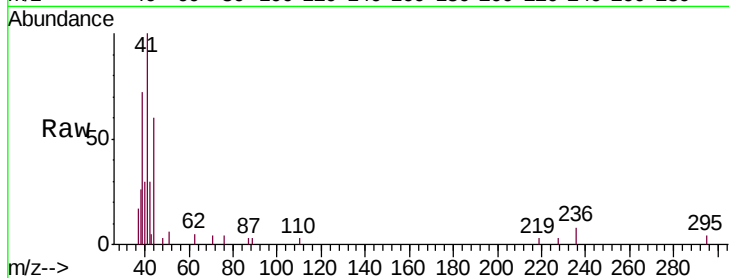
VSTDIC0.1

Tgt Ion: 41 Resp: 5629

Ion Ratio Lower Upper

41 100

42 77.2 54.9 82.3



#10

Heptane

Concen: 0.026 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.01 min

Lab File: VL034680.D

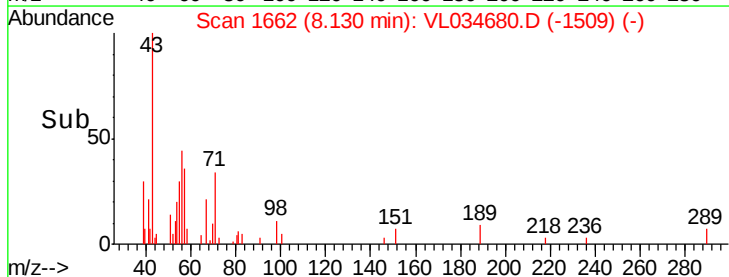
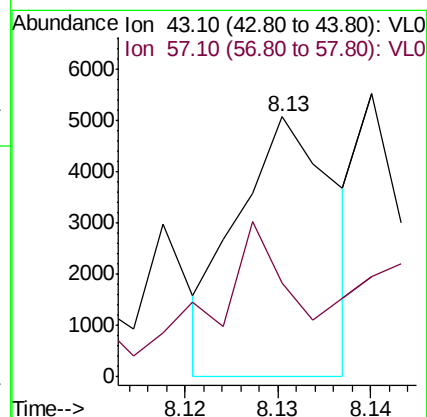
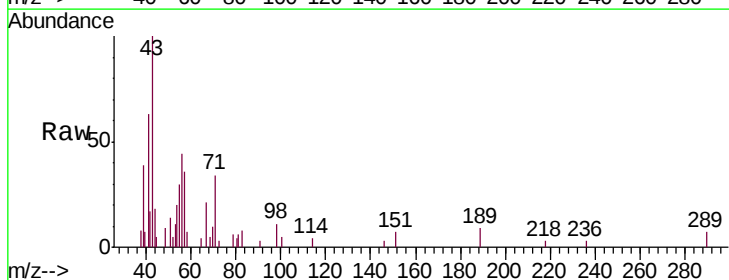
Acq: 26 Feb 2020 5:00

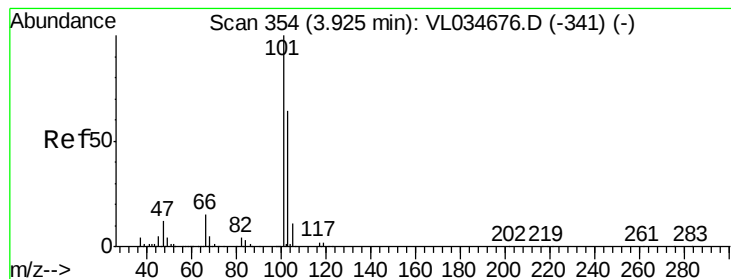
Tgt Ion: 43 Resp: 3686

Ion Ratio Lower Upper

43 100

57 122.5 41.0 61.6#





#11

Trichlorofluoromethane

Concen: 0.098 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

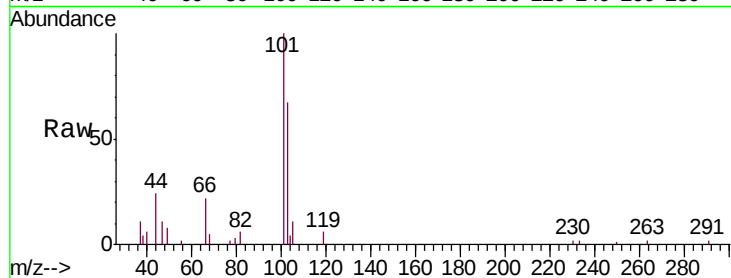
VSTDIC0.1

Tgt Ion:101 Resp: 17153

Ion Ratio Lower Upper

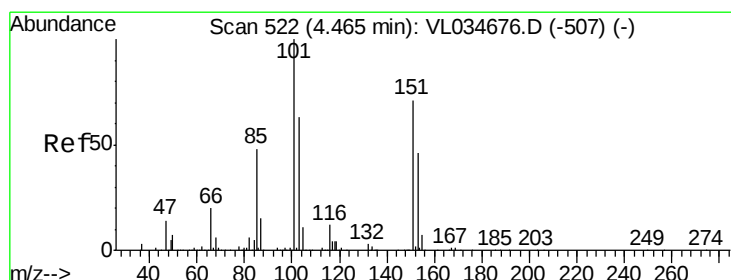
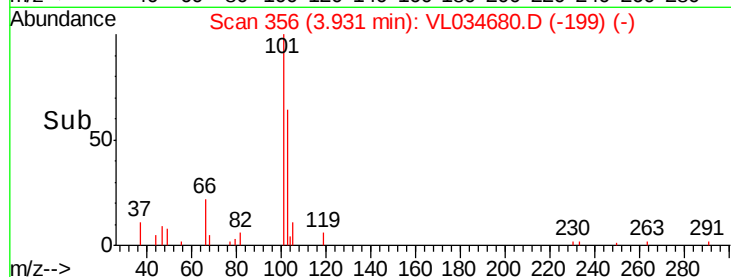
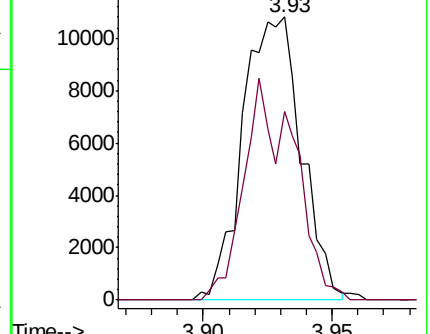
101 100

103 70.9 51.2 76.8



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: 0.090 ppbv

RT: 4.47 min Scan# 524

Delta R.T. 0.01 min

Lab File: VL034680.D

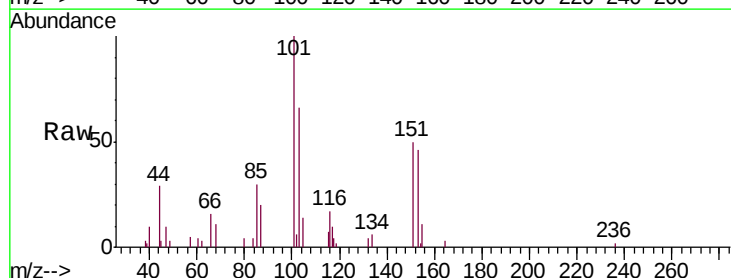
Acq: 26 Feb 2020 5:00

Tgt Ion:101 Resp: 10861

Ion Ratio Lower Upper

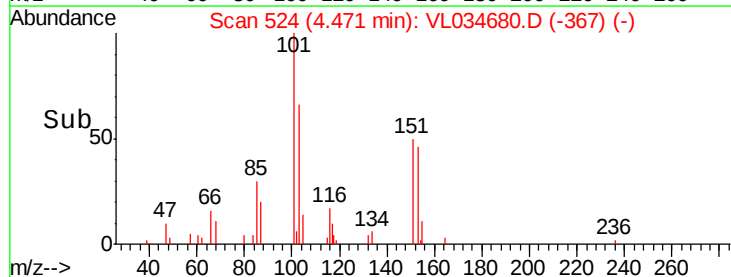
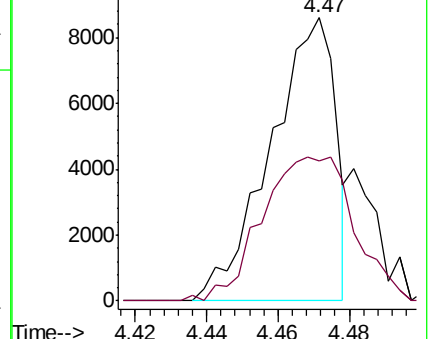
101 100

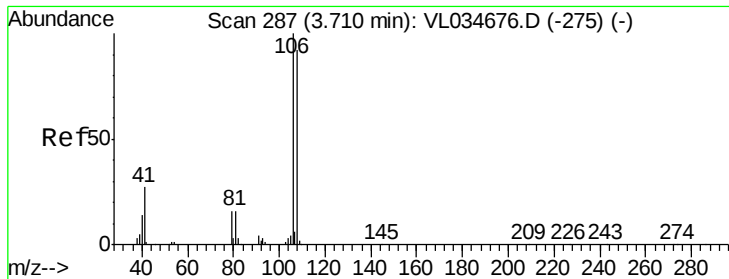
151 71.8 55.8 83.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.056 ppbv

RT: 3.72 min Scan# 290

Delta R.T. 0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

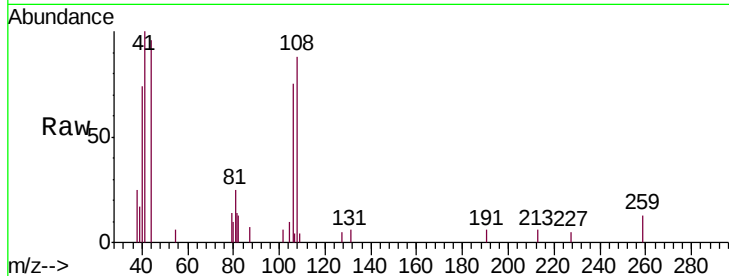
Tgt Ion: 108 Resp: 2767

Ion Ratio Lower Upper

108 100

106 203.4 86.7 130.1#

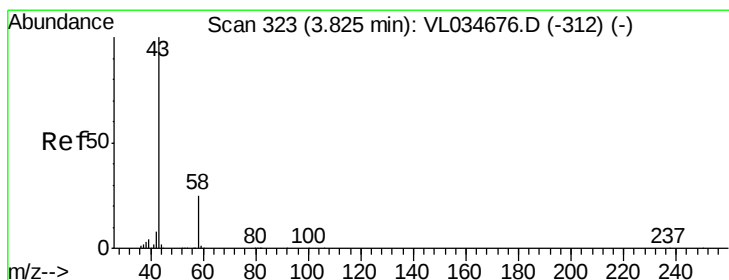
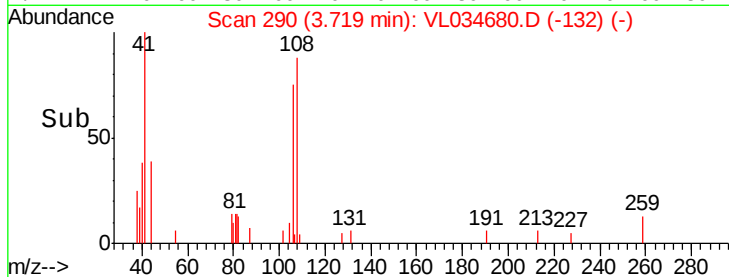
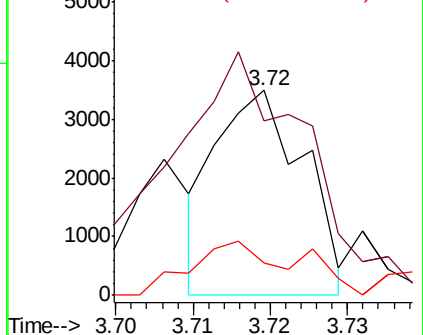
79 37.2 15.0 22.6#



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): VL0



#15

Acetone

Concen: 0.117 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.03 min

Lab File: VL034680.D

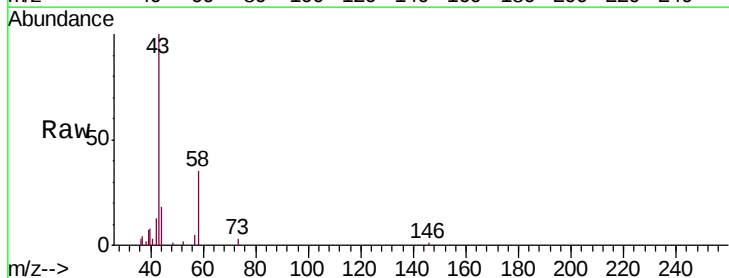
Acq: 26 Feb 2020 5:00

Tgt Ion: 43 Resp: 17663

Ion Ratio Lower Upper

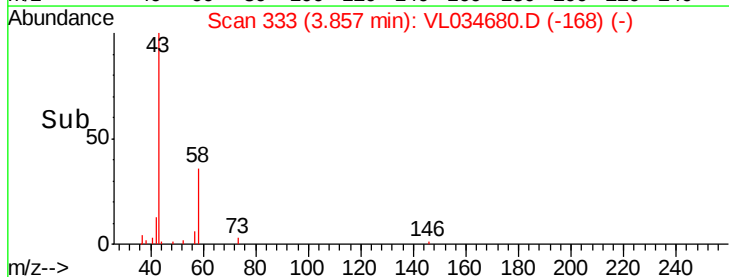
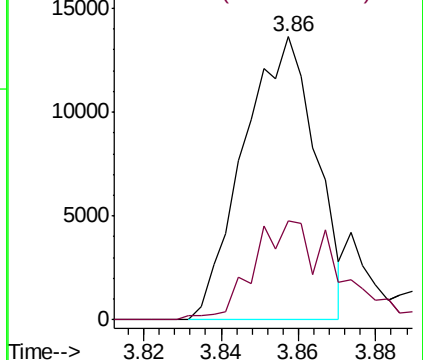
43 100

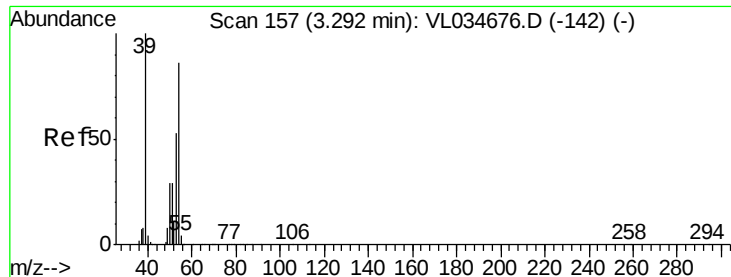
58 41.0 21.4 32.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

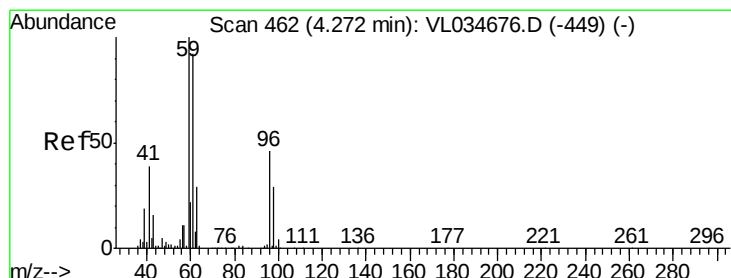
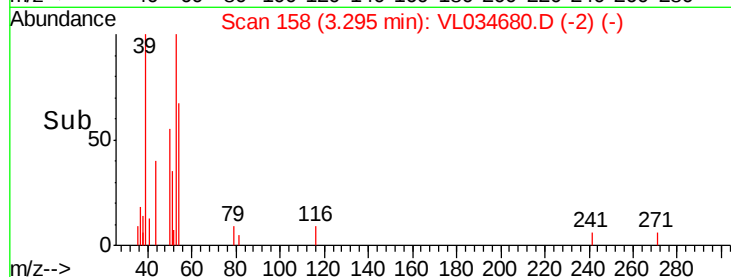
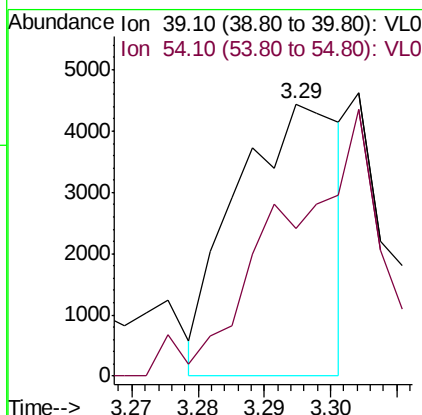
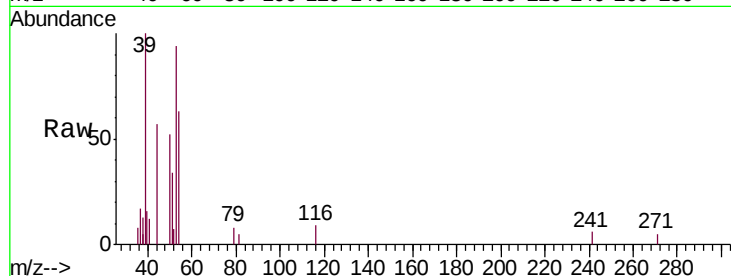




#16
 1,3-Butadiene
 Concen: 0.075 ppbv
 RT: 3.29 min Scan# 158
 Delta R.T. 0.00 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

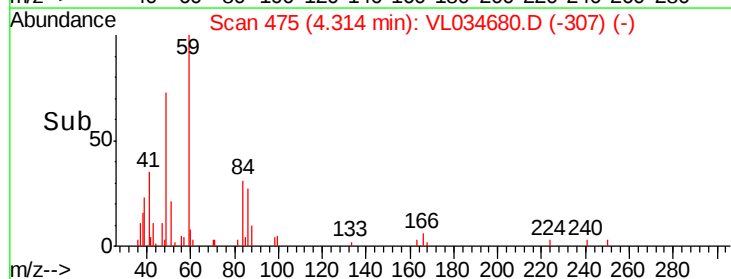
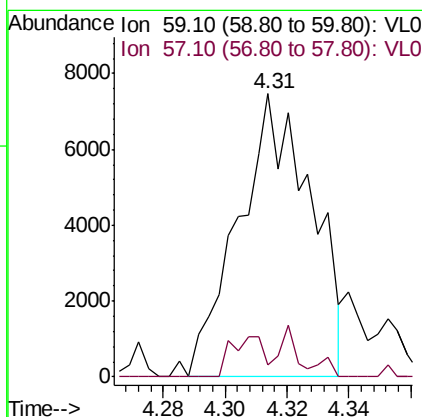
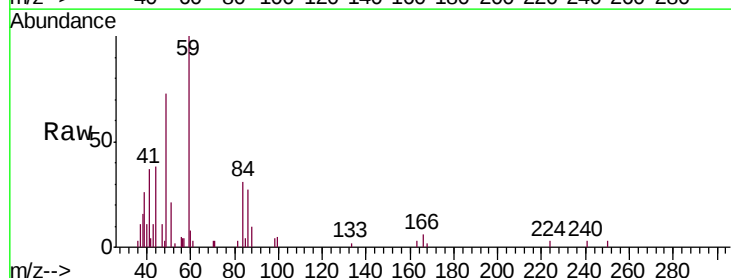
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

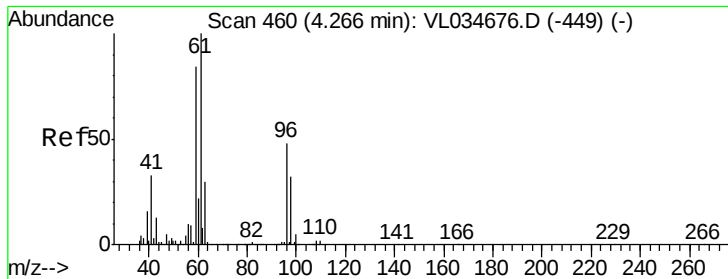
Tgt Ion: 39 Resp: 4811
 Ion Ratio Lower Upper
 39 100
 54 0.0 67.0 100.6#



#17
 tert-Butyl alcohol
 Concen: 0.106 ppbv
 RT: 4.31 min Scan# 475
 Delta R.T. 0.04 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

Tgt Ion: 59 Resp: 12202
 Ion Ratio Lower Upper
 59 100
 57 11.6 8.8 13.2





#18

1,1-Dichloroethene

Concen: 0.043 ppbv

RT: 4.26 min Scan# 458

Delta R.T. -0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

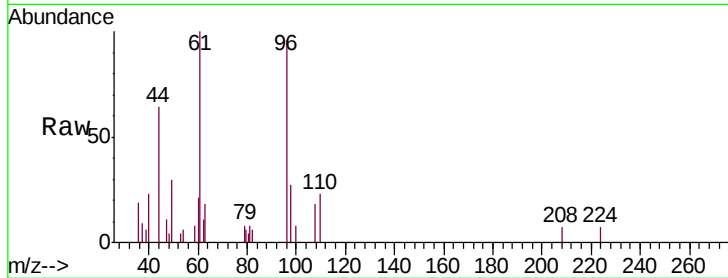
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	96	Resp:	2334
Ion	Ratio	Lower	Upper
96	100		
61	28.7	165.1	247.7#
98	12.6	52.7	79.1#

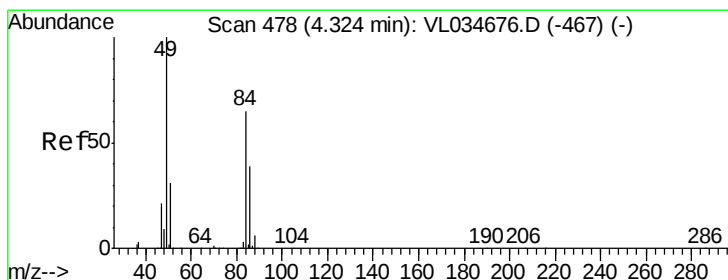
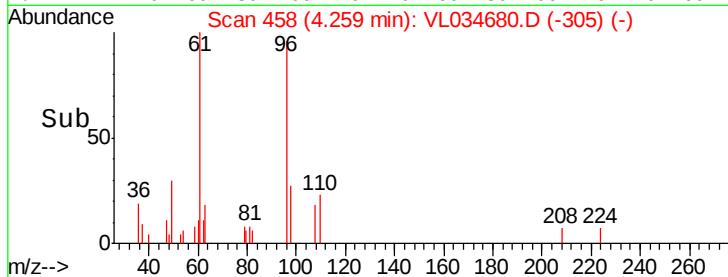
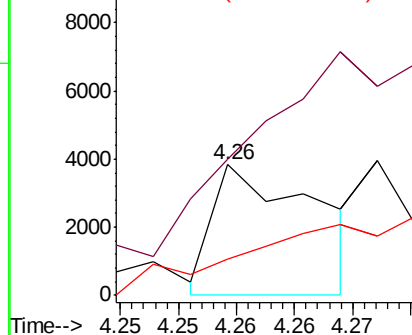


Abundance

Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#20

Methylene Chloride

Concen: 0.155 ppbv

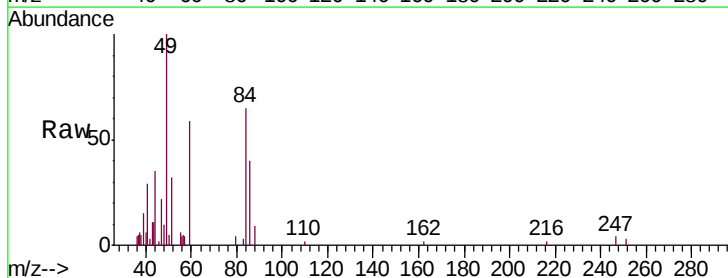
RT: 4.32 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Tgt Ion:	84	Resp:	8539
Ion	Ratio	Lower	Upper
84	100		
49	154.6	122.8	184.2
51	49.2	38.6	58.0
86	57.3	47.7	71.5



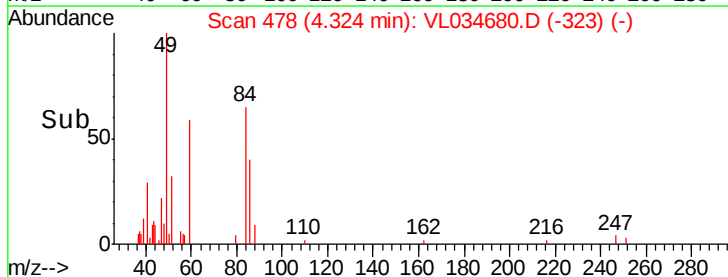
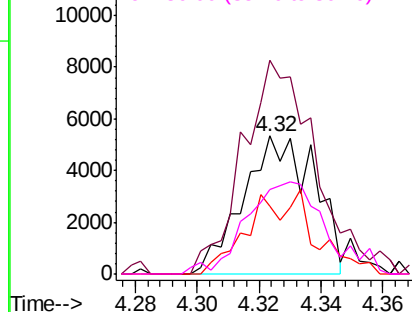
Abundance

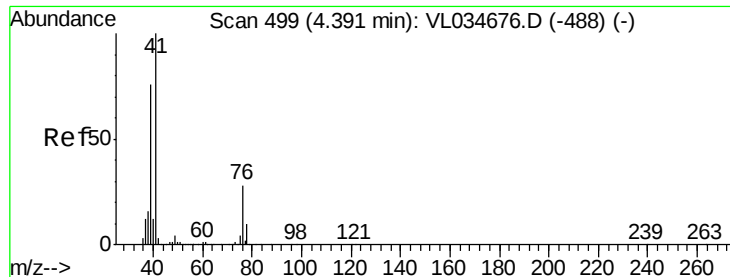
Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

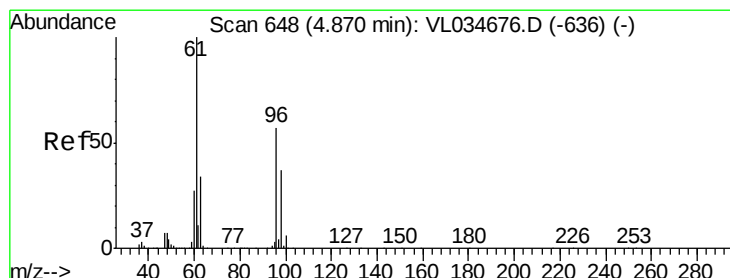
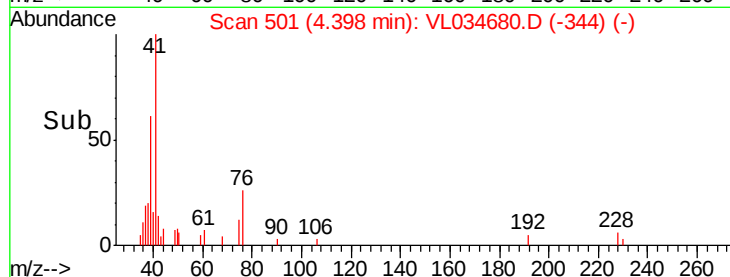
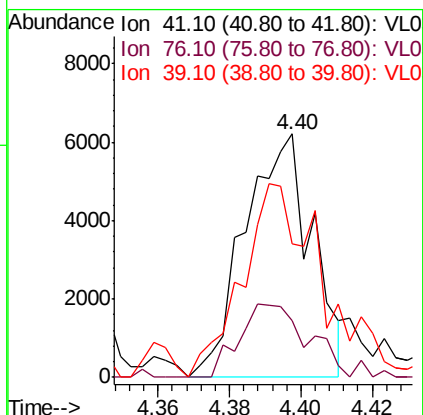
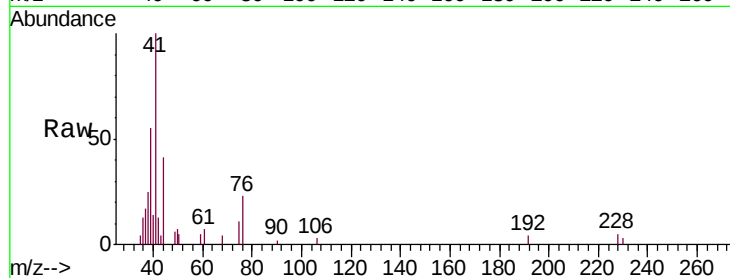




#21
 Allyl Chloride
 Concen: 0.088 ppbv
 RT: 4.40 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

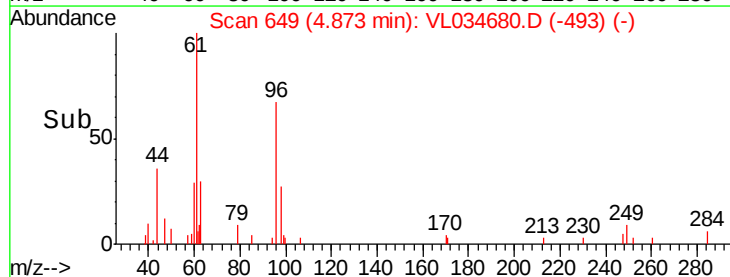
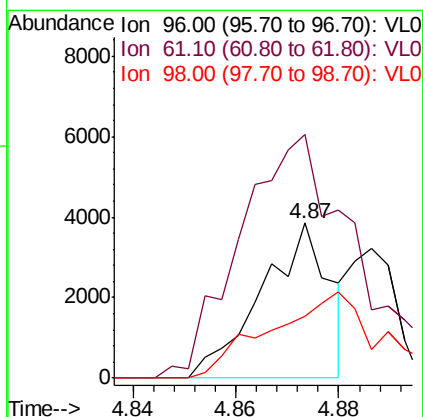
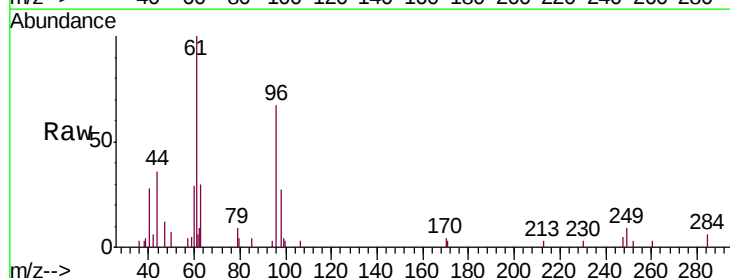
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

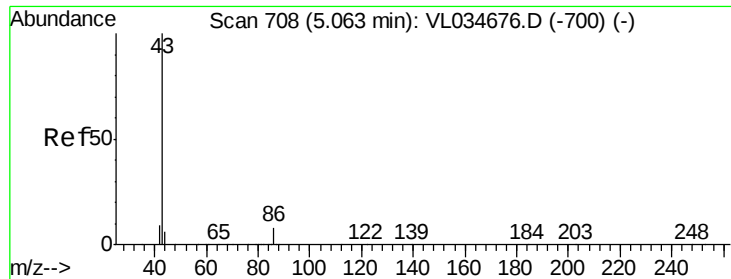
Tgt Ion: 41 Resp: 8106
 Ion Ratio Lower Upper
 41 100
 76 32.0 22.8 34.2
 39 101.3 61.7 92.5#



#22
 trans-1,2-Dichloroethene
 Concen: 0.066 ppbv
 RT: 4.87 min Scan# 649
 Delta R.T. 0.00 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

Tgt Ion: 96 Resp: 3535
 Ion Ratio Lower Upper
 96 100
 61 150.9 139.4 209.0
 98 40.0 51.3 76.9#





#23

Vinyl Acetate

Concen: 0.047 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 8694

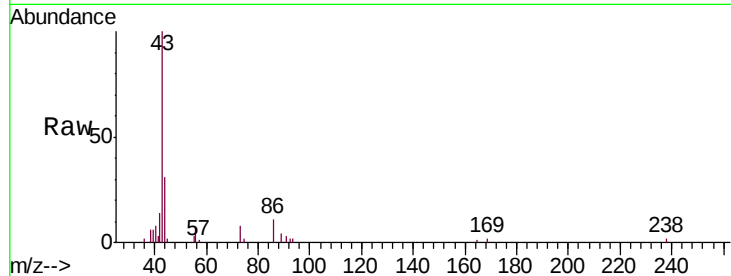
Ion Ratio Lower Upper

43 100

86 12.5 6.0 9.0#

42 11.1 8.0 12.0

44 19.9 4.5 6.7#

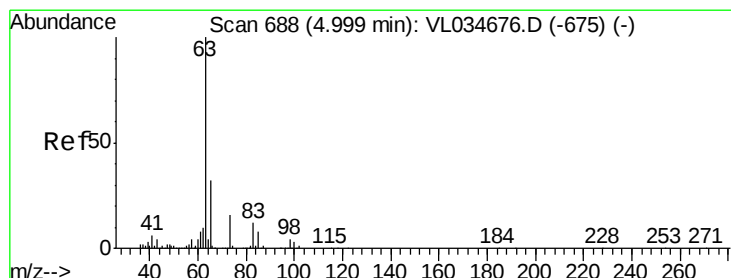
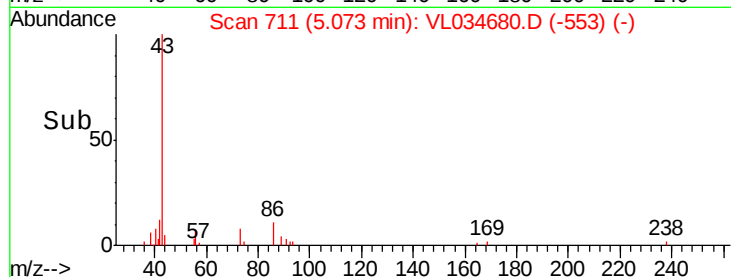
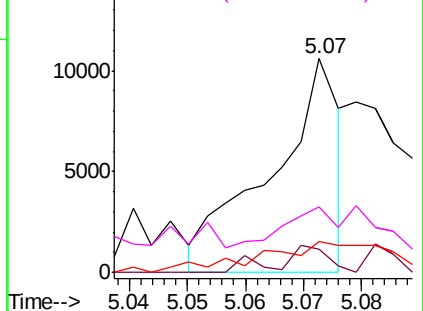


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.047 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

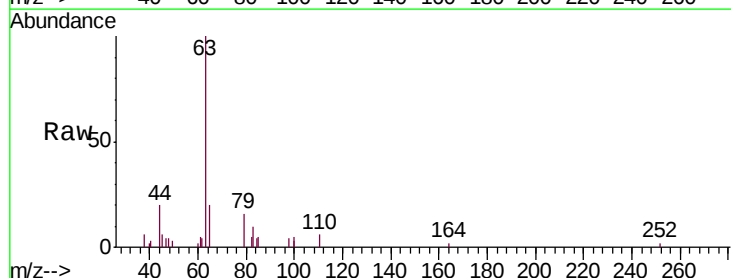
Tgt Ion: 63 Resp: 7244

Ion Ratio Lower Upper

63 100

98 3.6 2.1 6.2

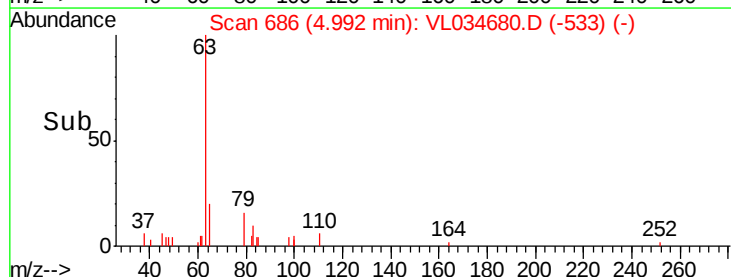
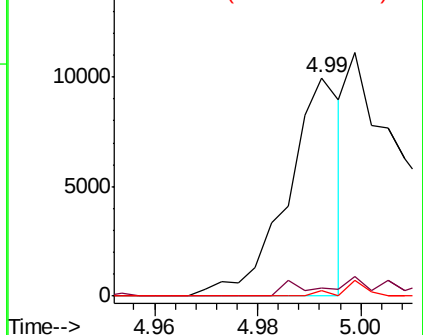
100 2.6 1.4 4.0

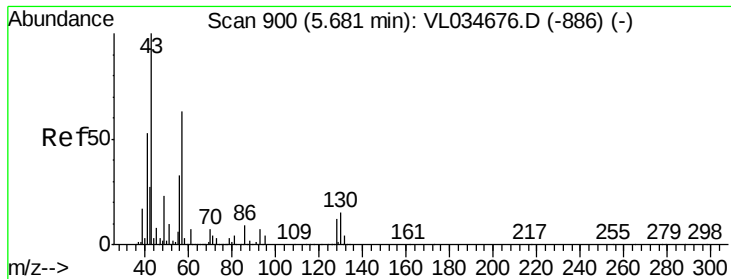


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

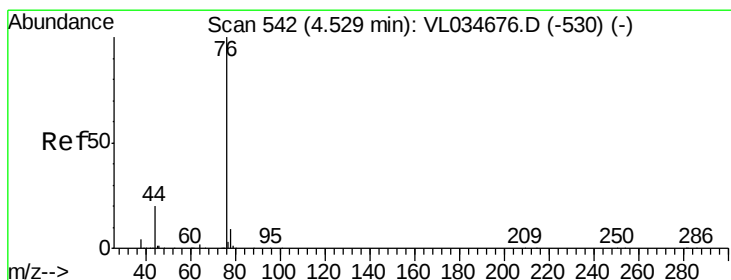
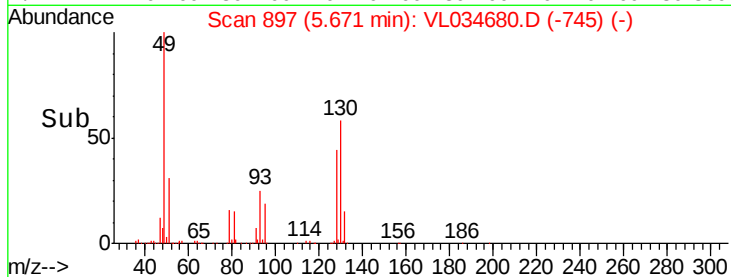
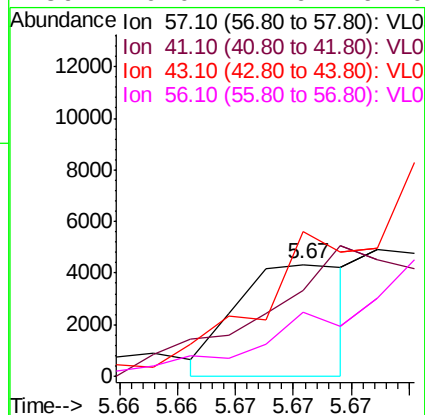
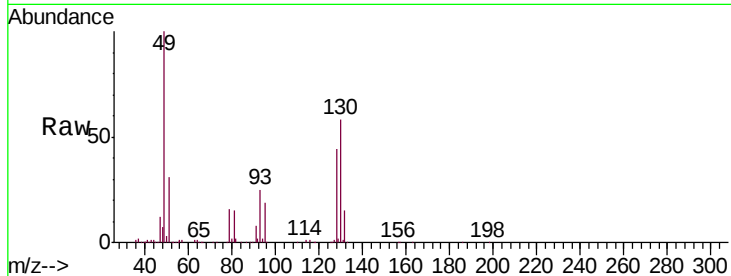




#26
Hexane
Concen: 0.025 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL034680.D
Acq: 26 Feb 2020 5:00

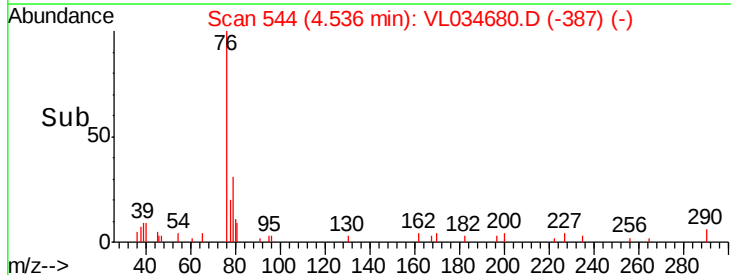
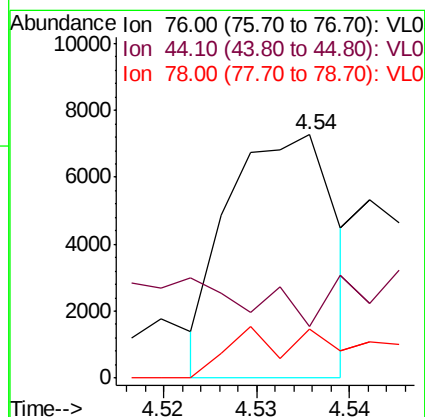
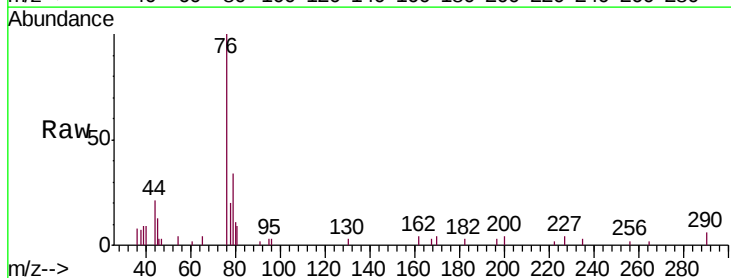
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

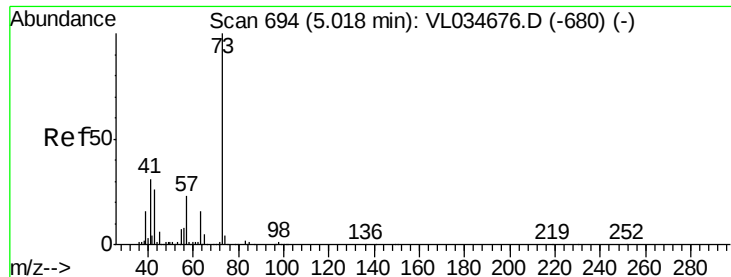
Tgt Ion:	57	Resp:	2921
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.3	105.5#
43	0.0	177.0	265.4#
56	0.0	42.6	64.0#



#27
Carbon Disulfide
Concen: 0.044 ppbv
RT: 4.54 min Scan# 544
Delta R.T. 0.01 min
Lab File: VL034680.D
Acq: 26 Feb 2020 5:00

Tgt Ion:	76	Resp:	5819
Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.3	22.9#
78	36.4	7.6	11.4#





#28

Methyl tert-Butyl Ether

Concen: 0.050 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.03 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

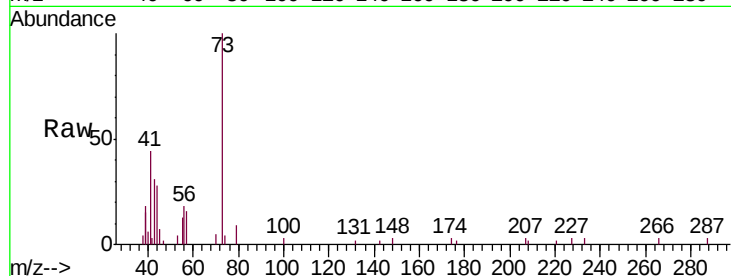
VSTDIC0.1

Tgt Ion: 73 Resp: 8289

Ion Ratio Lower Upper

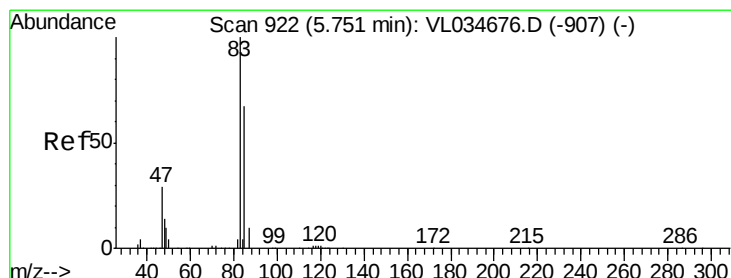
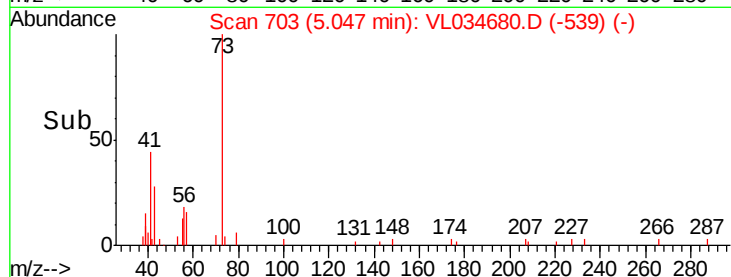
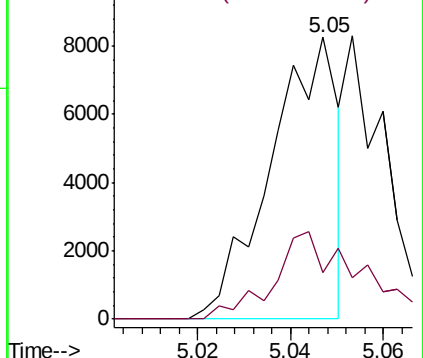
73 100

57 41.1 18.6 28.0#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#29

Chloroform

Concen: 0.035 ppbv

RT: 5.74 min Scan# 920

Delta R.T. -0.01 min

Lab File: VL034680.D

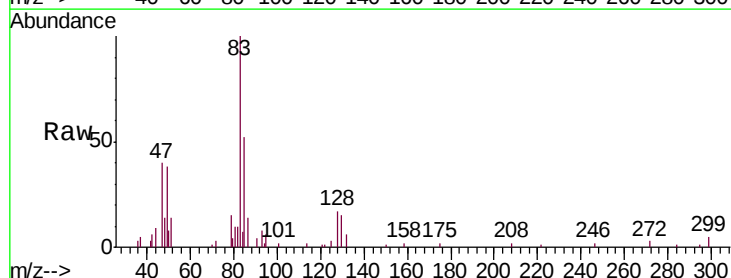
Acq: 26 Feb 2020 5:00

Tgt Ion: 83 Resp: 6485

Ion Ratio Lower Upper

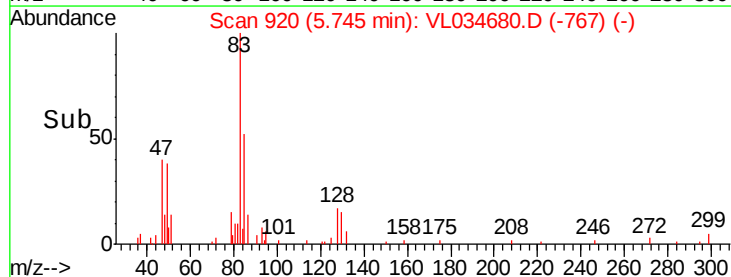
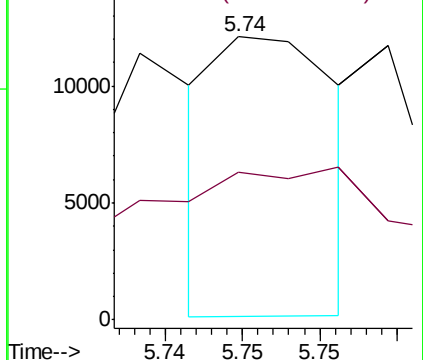
83 100

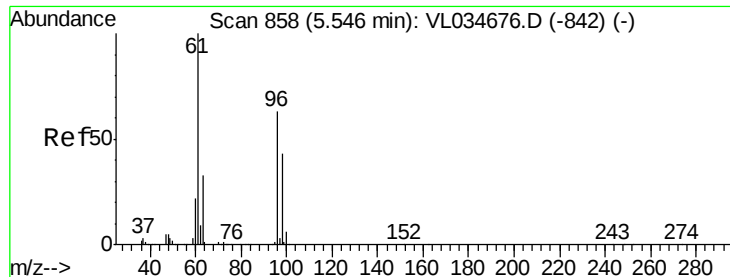
85 59.3 53.9 80.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



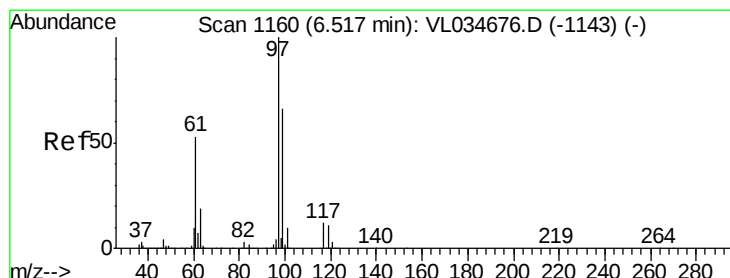
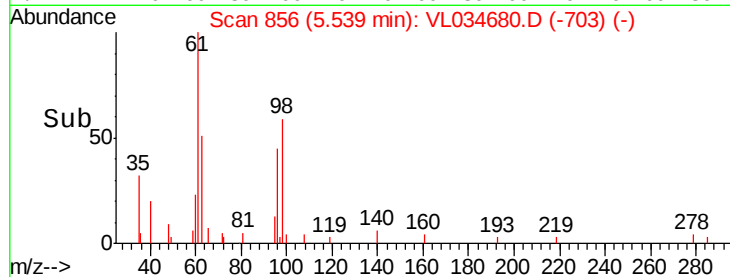
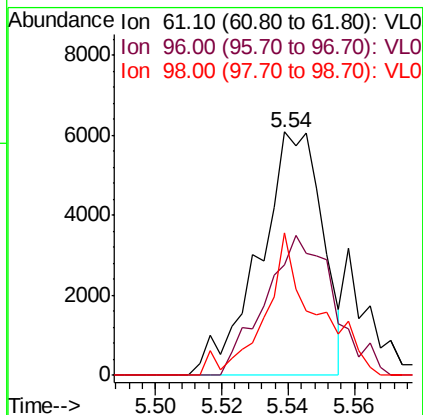
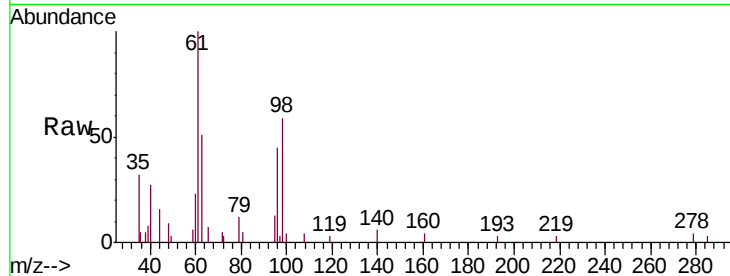


#31

cis-1,2-Dichloroethene
 Concen: 0.072 ppbv
 RT: 5.54 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

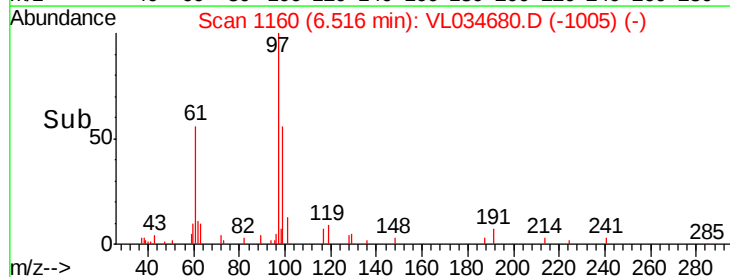
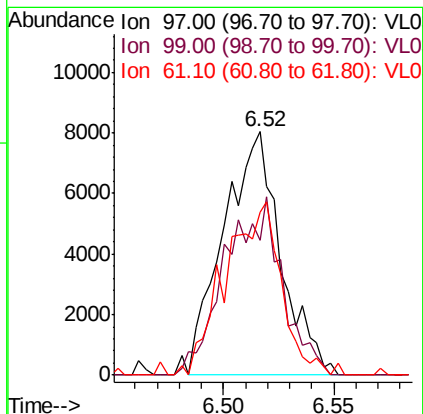
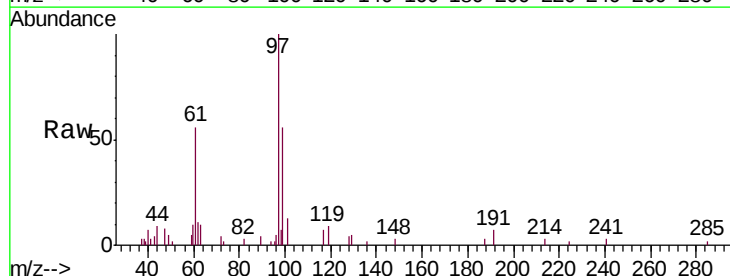
Tgt Ion	Ratio	Lower	Upper
61	100		
96	45.5	50.2	75.2#
98	58.6	34.3	51.5#

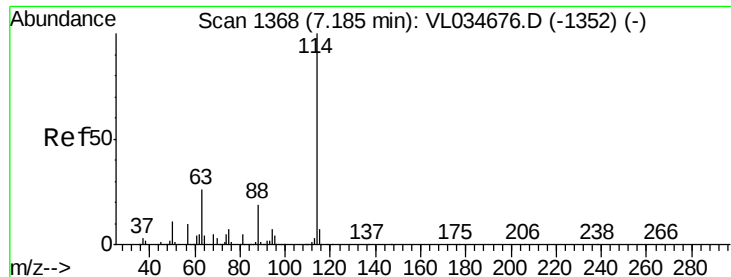


#32

1,1,1-Trichloroethane
 Concen: 0.086 ppbv
 RT: 6.52 min Scan# 1160
 Delta R.T. -0.00 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	72.4	52.3	78.5
61	70.0	42.8	64.2#

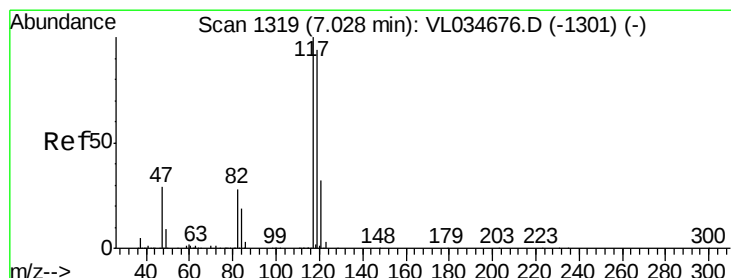
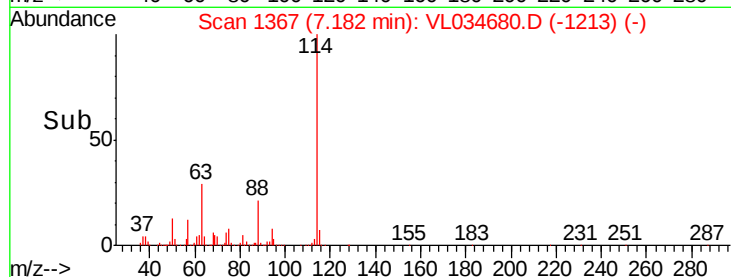
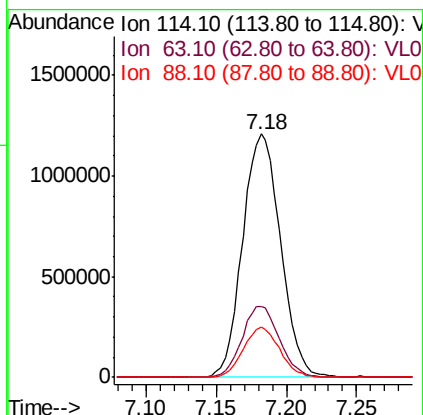
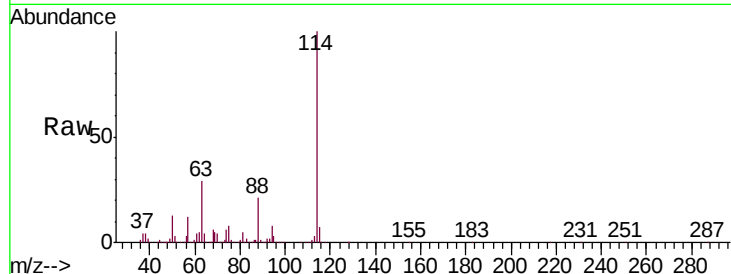




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

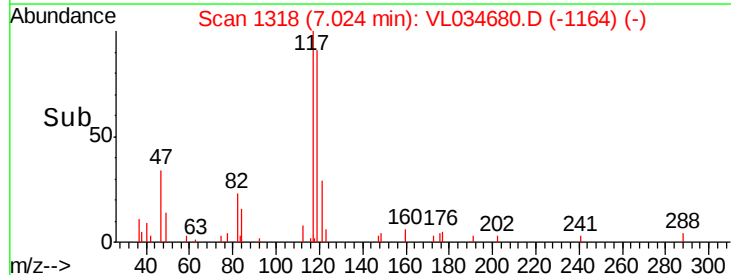
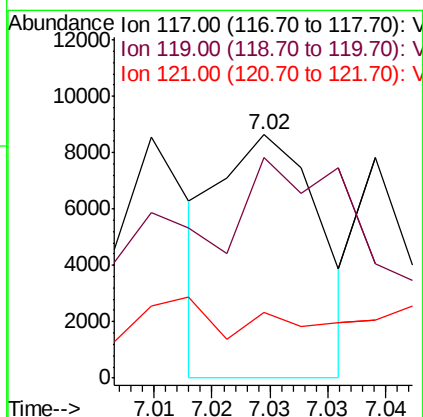
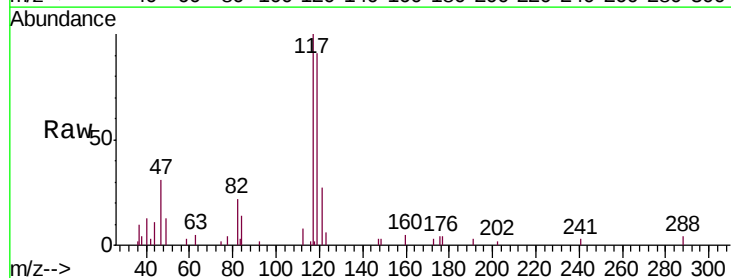
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

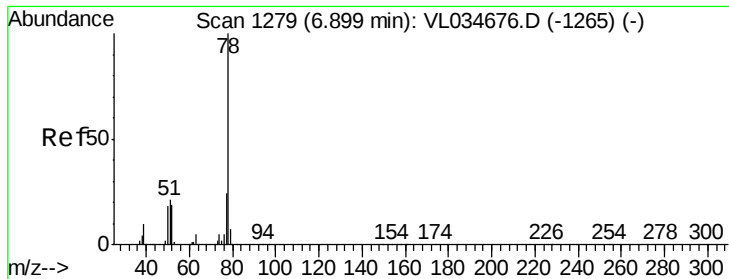
Tgt Ion:114 Resp: 2279889
 Ion Ratio Lower Upper
 114 100
 63 28.8 22.9 34.3
 88 19.9 15.8 23.6



#35
 Carbon Tetrachloride
 Concen: 0.030 ppbv
 RT: 7.02 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

Tgt Ion:117 Resp: 5220
 Ion Ratio Lower Upper
 117 100
 119 52.7 75.5 113.3#
 121 7.0 25.4 38.0#





#36

Benzene

Concen: 0.062 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

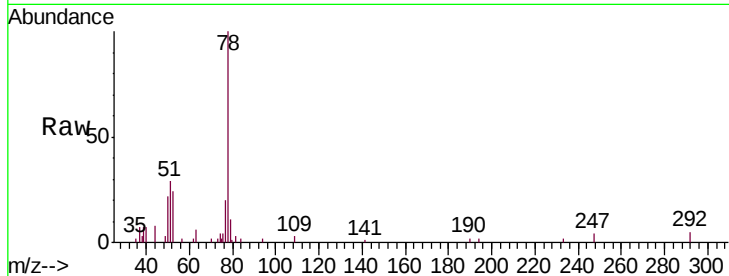
Tgt Ion: 78 Resp: 13322

Ion Ratio Lower Upper

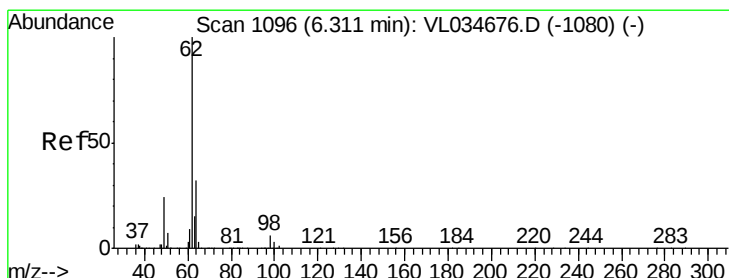
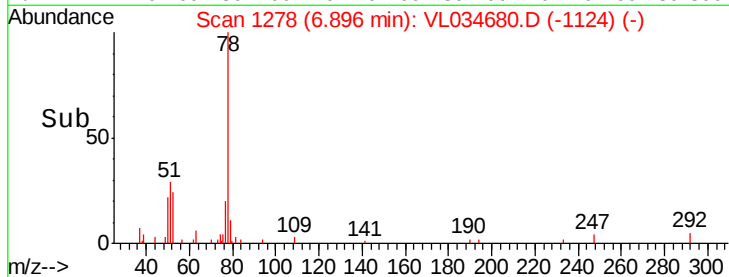
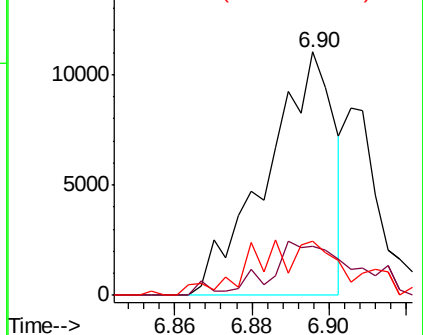
78 100

77 20.3 19.5 29.3

50 17.7 14.6 21.8



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: 0.022 ppbv

RT: 6.30 min Scan# 1094

Delta R.T. -0.01 min

Lab File: VL034680.D

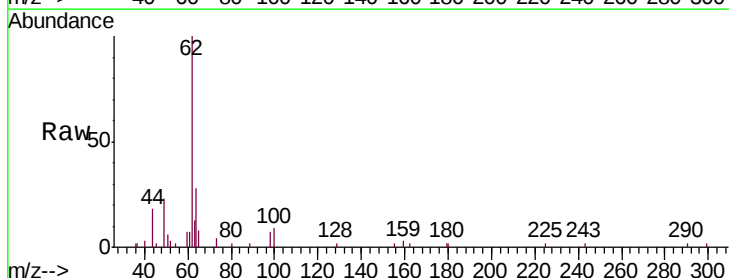
Acq: 26 Feb 2020 5:00

Tgt Ion: 62 Resp: 3097

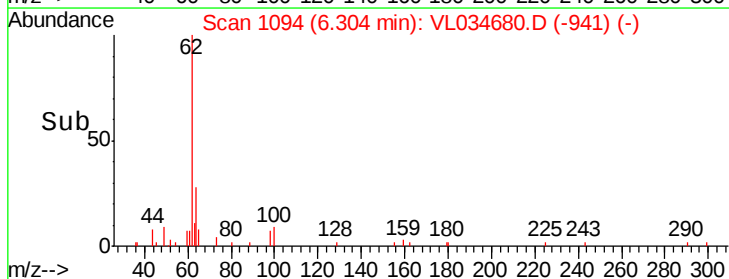
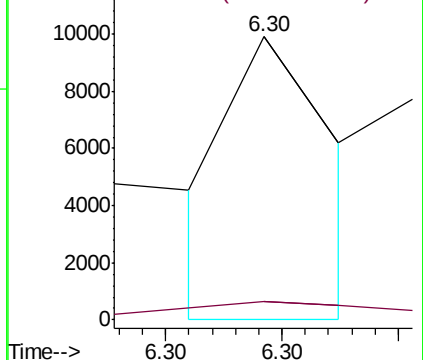
Ion Ratio Lower Upper

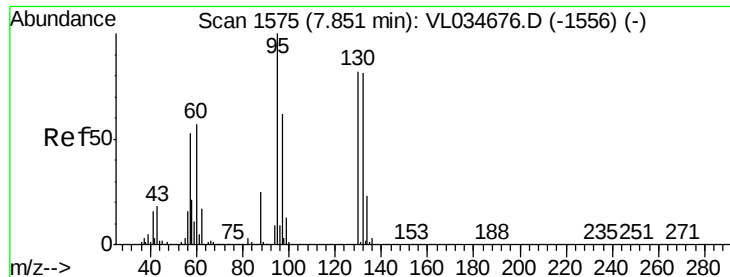
62 100

98 0.0 4.7 7.1#



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





#38

Trichloroethene

Concen: 0.031 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 130 Resp: 2562

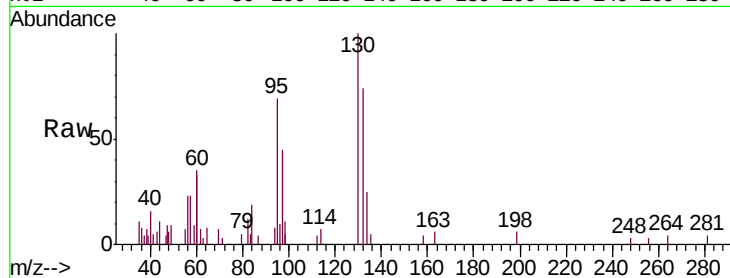
Ion Ratio Lower Upper

130 100

95 2.0 97.1 145.7#

132 47.9 78.3 117.5#

97 20.8 60.1 90.1#

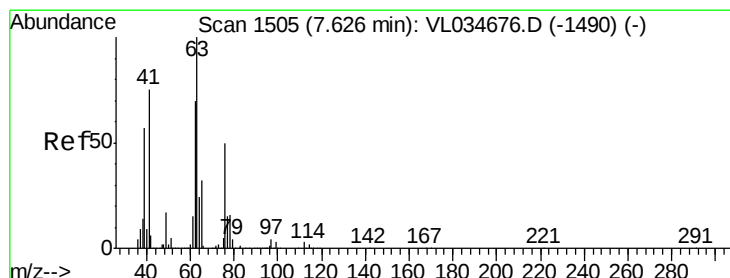
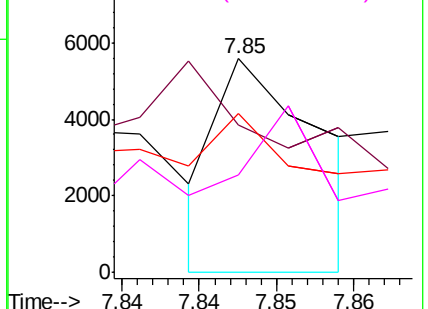
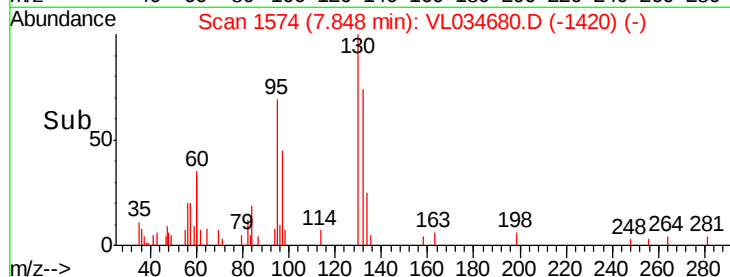


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.388 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.45 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

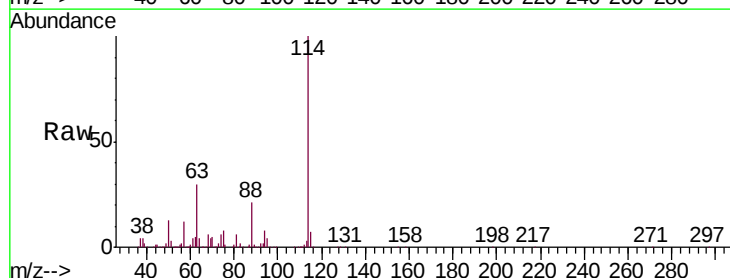
Tgt Ion: 63 Resp: 653139

Ion Ratio Lower Upper

63 100

41 0.0 60.2 90.4#

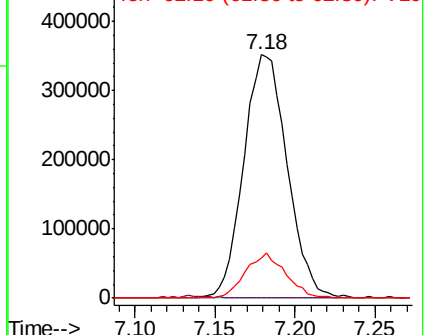
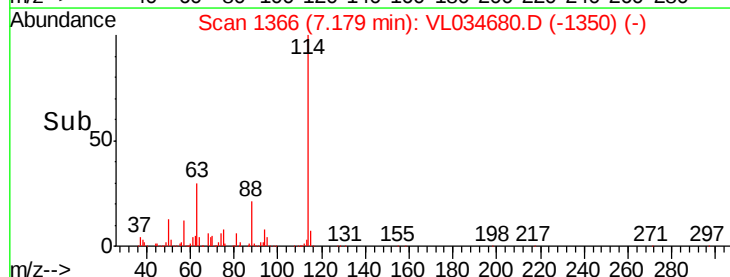
62 16.3 56.3 84.5#

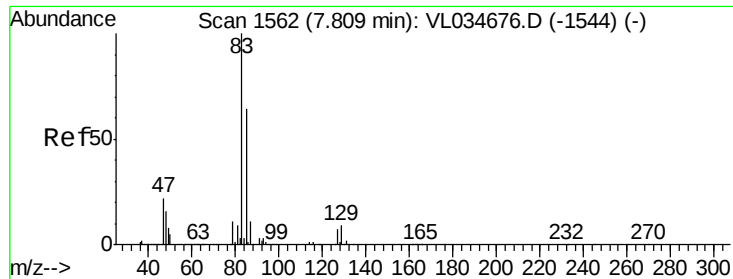


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.062 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

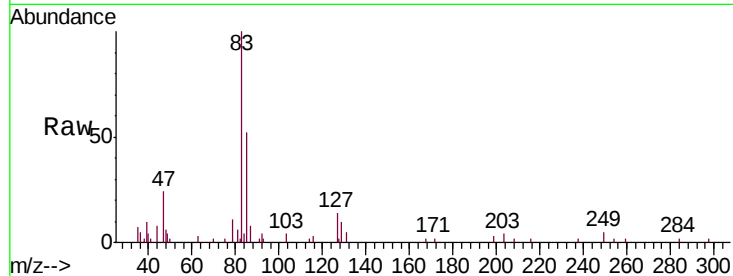
Tgt Ion: 83 Resp: 11374

Ion Ratio Lower Upper

83 100

85 52.4 51.1 76.7

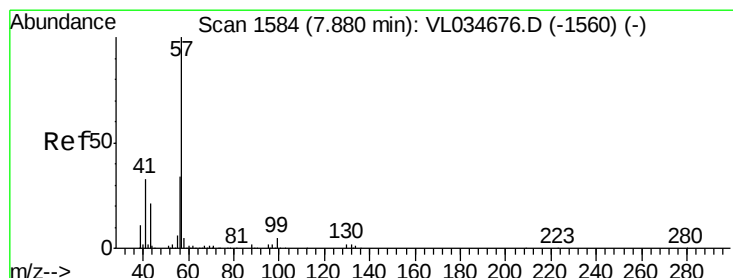
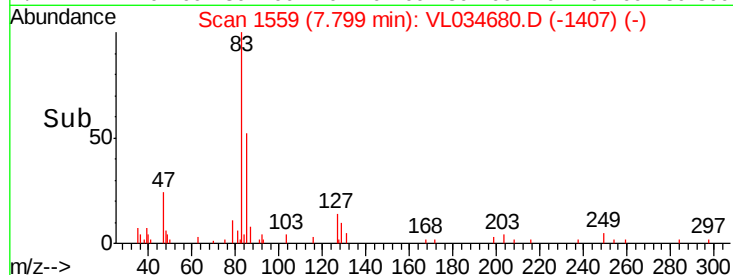
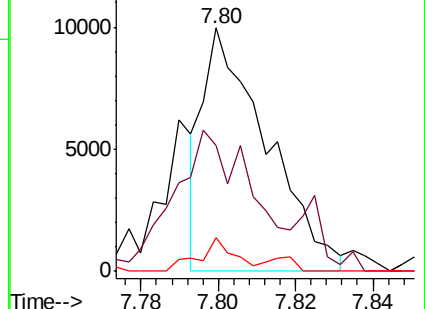
127 16.6 5.8 8.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V



#44

2,2,4-Trimethylpentane

Concen: 0.061 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

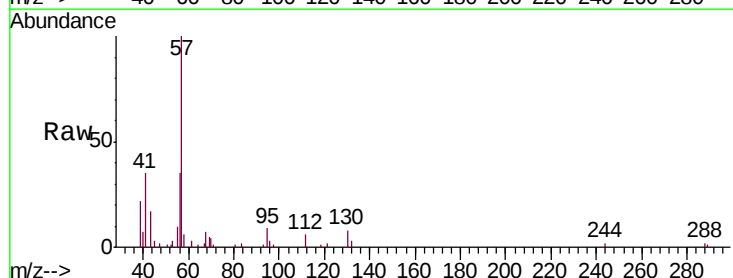
Tgt Ion: 57 Resp: 23615

Ion Ratio Lower Upper

57 100

41 42.4 26.0 39.0#

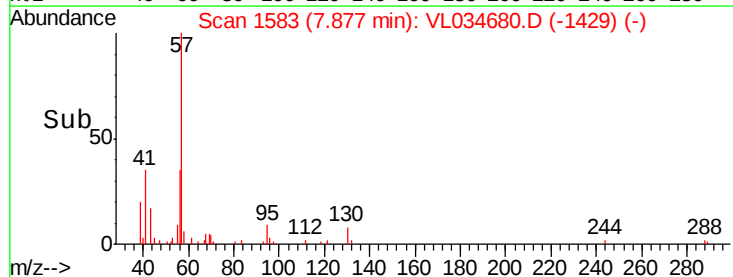
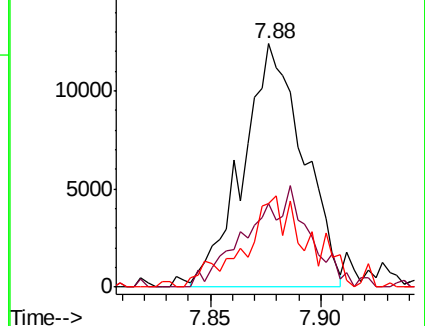
56 40.3 25.6 38.4#

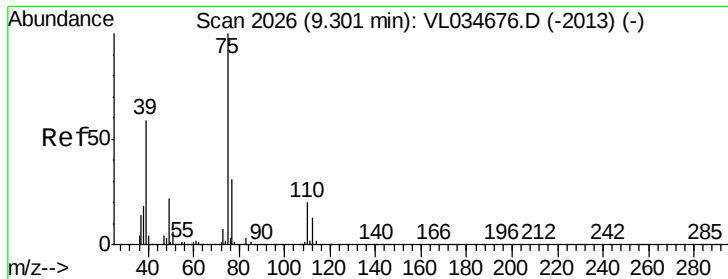


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

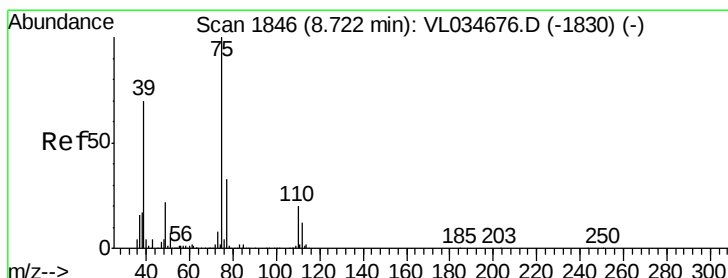
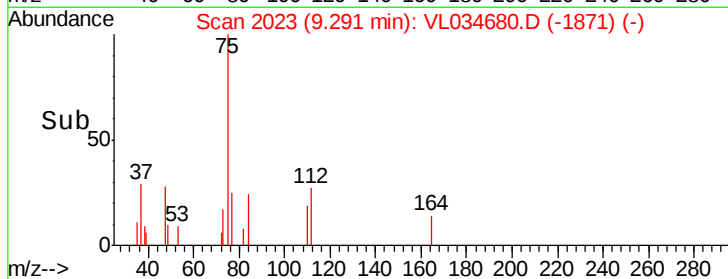
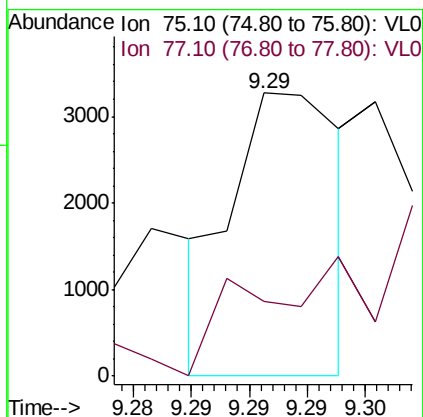
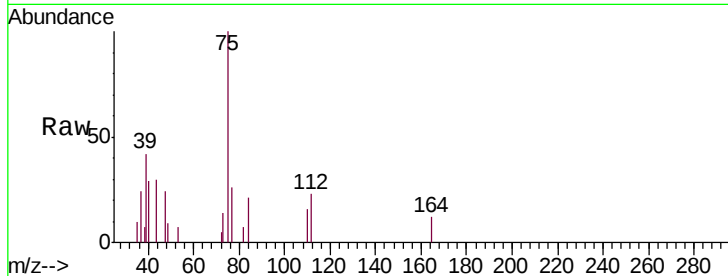




#45
 t-1,3-Dichloropropene
 Concen: 0.022 ppbv
 RT: 9.29 min Scan# 2023
 Delta R.T. -0.01 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

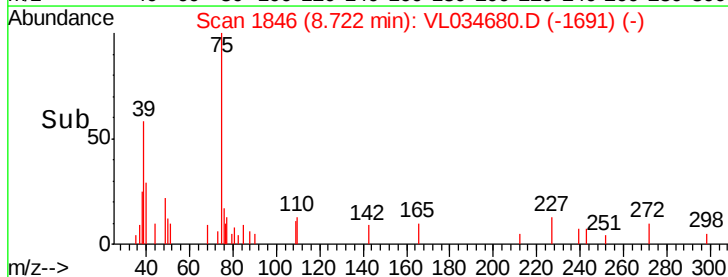
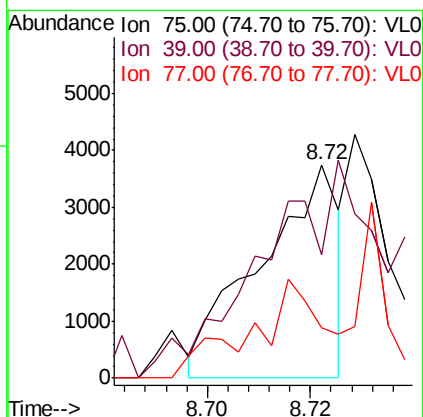
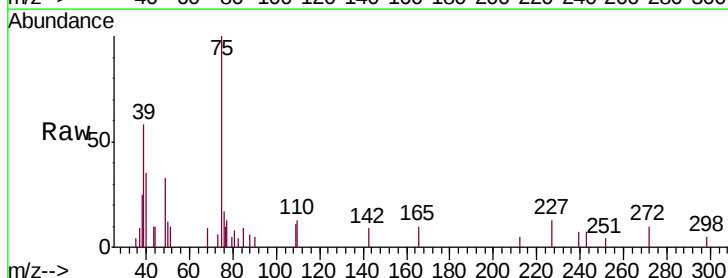
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

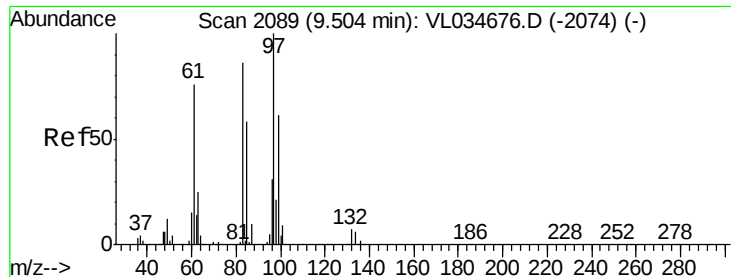
Tgt Ion: 75 Resp: 2129
 Ion Ratio Lower Upper
 75 100
 77 26.3 25.3 37.9



#46
 cis-1,3-Dichloropropene
 Concen: 0.034 ppbv
 RT: 8.72 min Scan# 1846
 Delta R.T. -0.00 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

Tgt Ion: 75 Resp: 3977
 Ion Ratio Lower Upper
 75 100
 39 45.6 55.7 83.5#
 77 14.3 26.3 39.5#

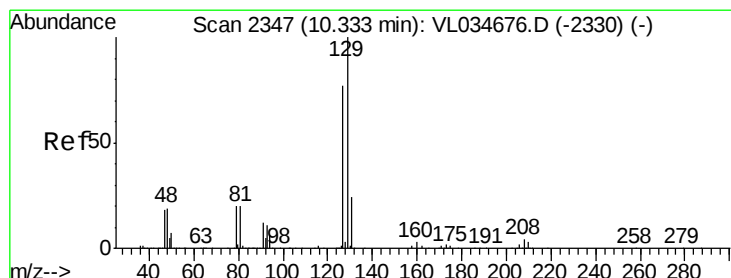
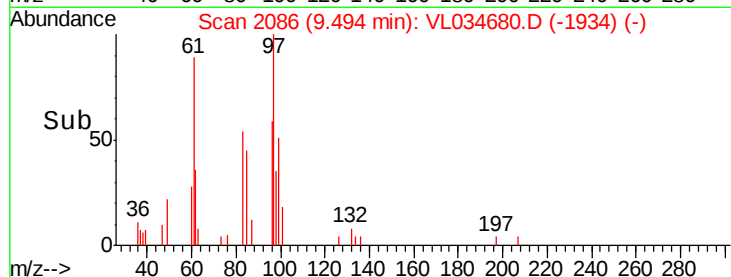
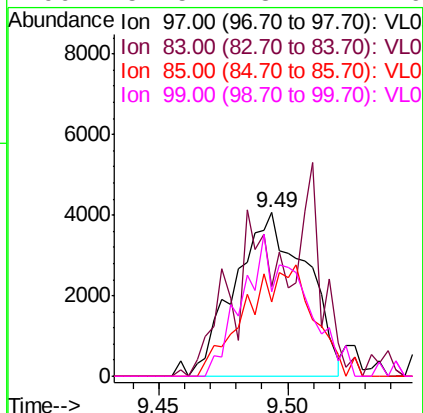
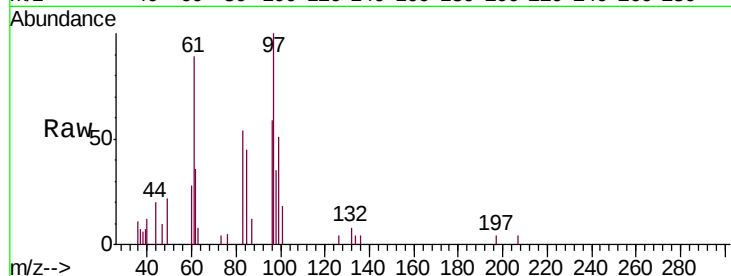




#47
 1,1,2-Trichloroethane
 Concen: 0.084 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. -0.01 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

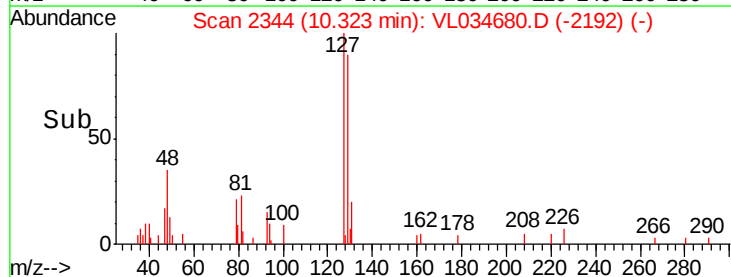
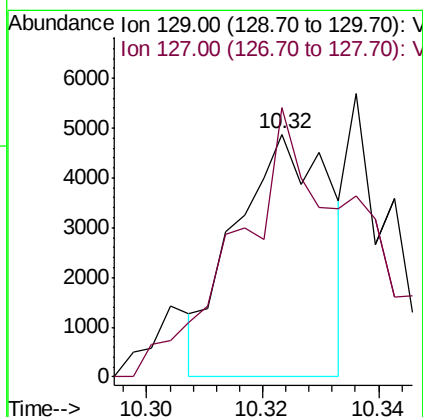
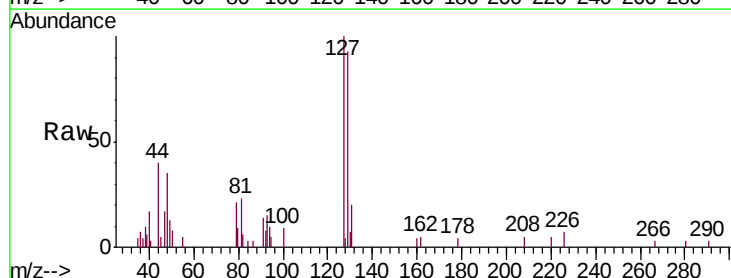
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

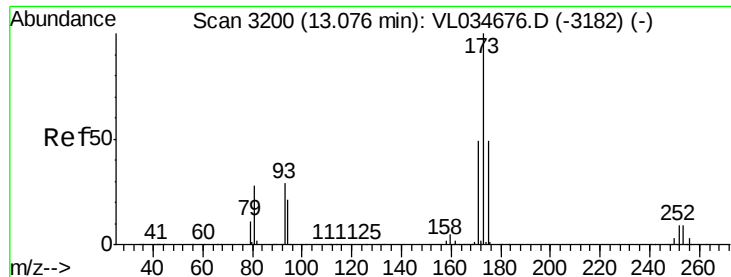
Tgt Ion: 97 Resp: 7861
 Ion Ratio Lower Upper
 97 100
 83 54.5 69.4 104.0#
 85 45.2 46.4 69.6#
 99 51.5 48.4 72.6



#48
 Dibromochloromethane
 Concen: 0.038 ppbv
 RT: 10.32 min Scan# 2344
 Delta R.T. -0.01 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

Tgt Ion: 129 Resp: 5461
 Ion Ratio Lower Upper
 129 100
 127 153.3 39.3 117.8#





#49

Bromoform

Concen: 0.031 ppbv

RT: 13.07 min Scan# 3198

Delta R.T. -0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

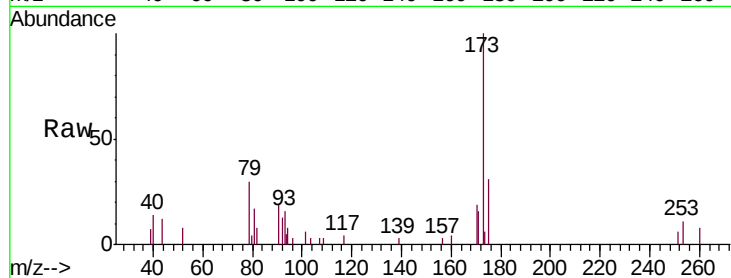
Tgt Ion:173 Resp: 3946

Ion Ratio Lower Upper

173 100

175 105.1 38.6 58.0#

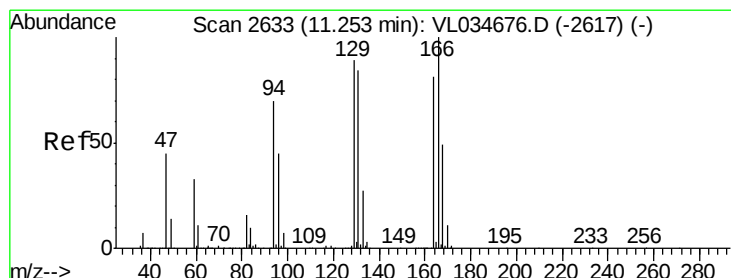
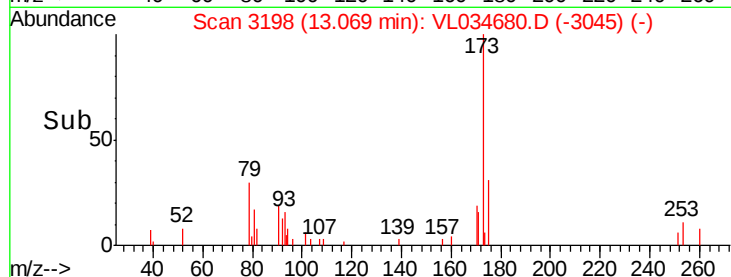
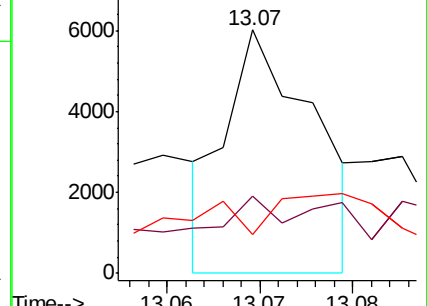
171 0.0 41.5 62.3#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#52

Tetrachloroethene

Concen: 0.022 ppbv

RT: 11.25 min Scan# 2632

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Tgt Ion:164 Resp: 1635

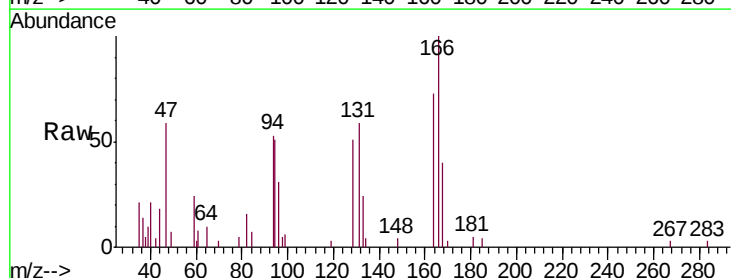
Ion Ratio Lower Upper

164 100

166 124.4 99.2 148.8

129 0.0 88.0 132.0#

131 8.4 83.7 125.5#

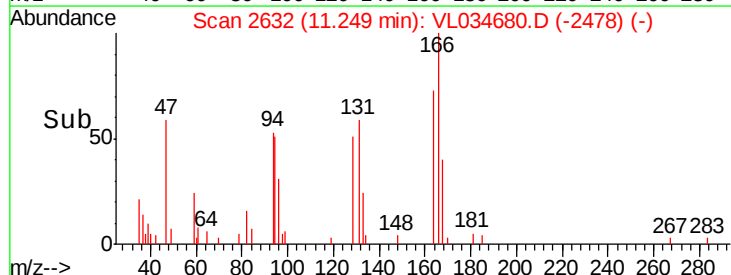
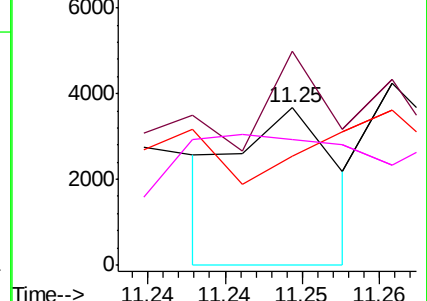


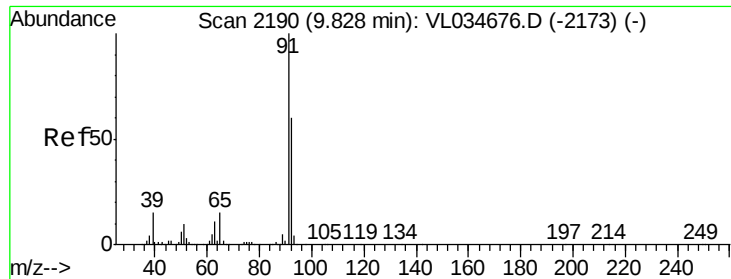
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.042 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

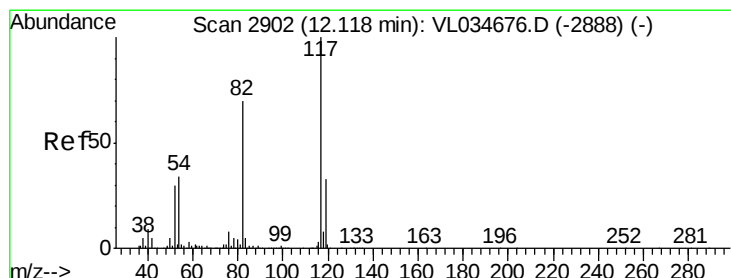
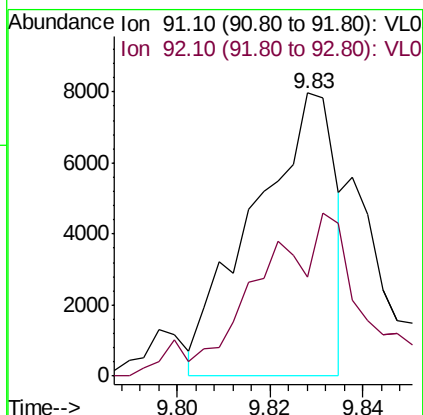
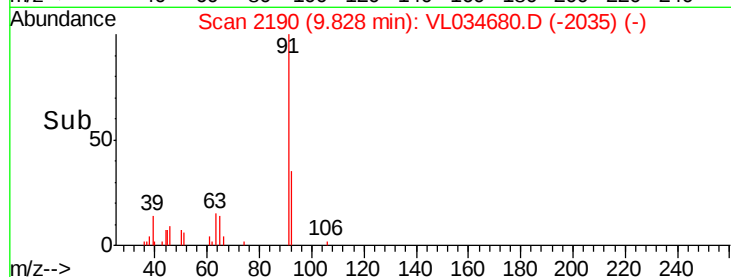
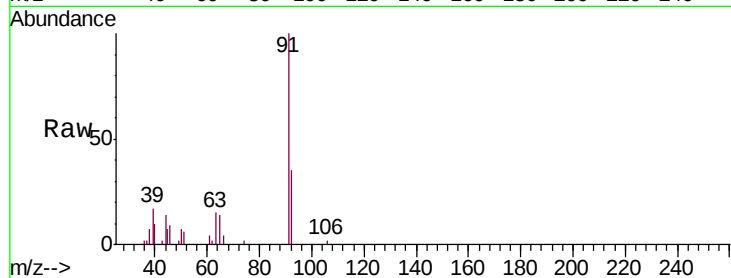
VSTDIC0.1

Tgt Ion: 91 Resp: 9709

Ion Ratio Lower Upper

91 100

92 75.2 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

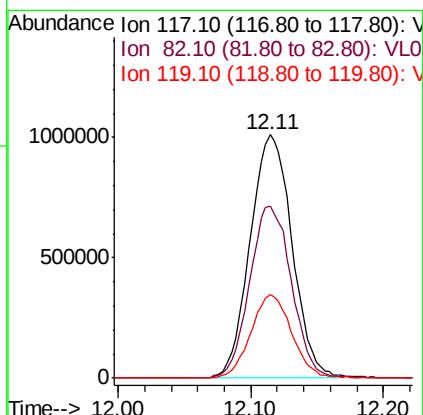
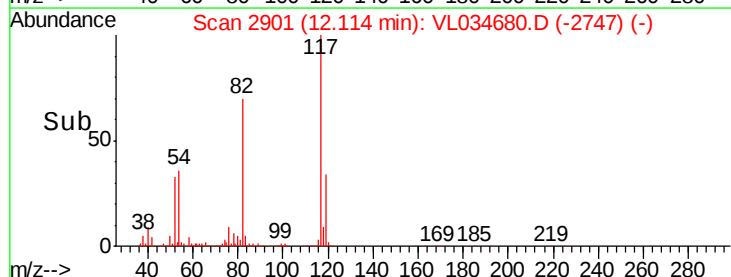
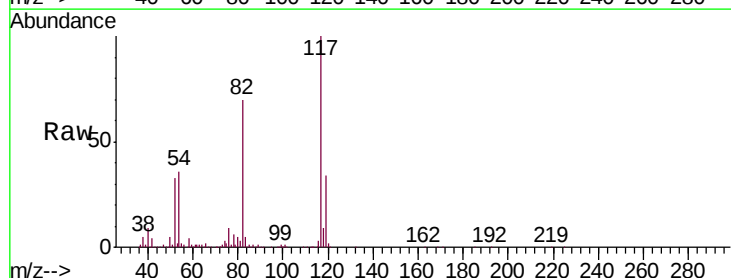
Tgt Ion: 117 Resp: 2230809

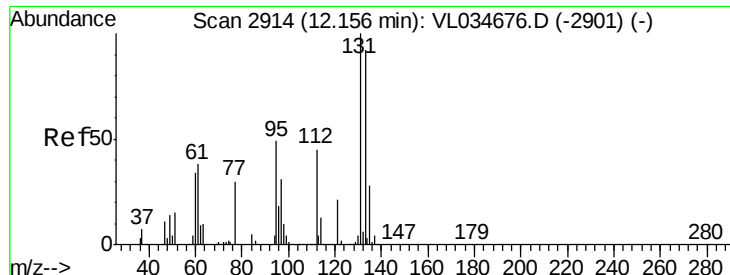
Ion Ratio Lower Upper

117 100

82 70.8 54.1 81.1

119 33.6 27.6 41.4





#56

1,1,1,2-Tetrachloroethane

Concen: 0.061 ppbv

RT: 12.16 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

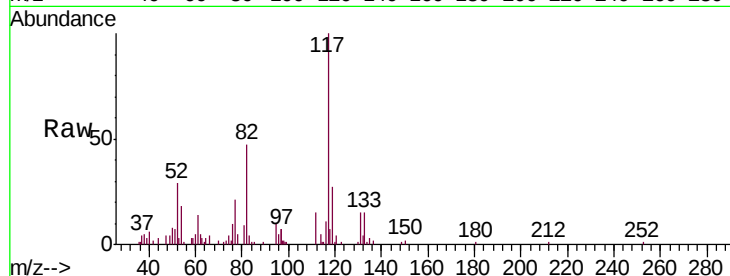
Tgt Ion:131 Resp: 5943

Ion Ratio Lower Upper

131 100

133 0.0 76.6 114.8#

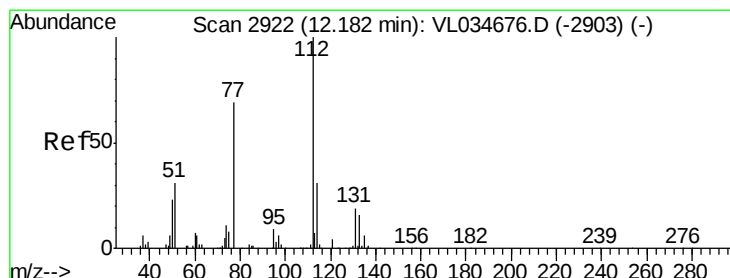
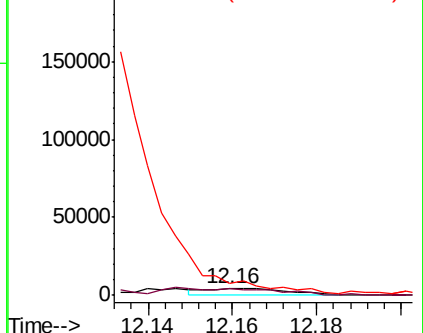
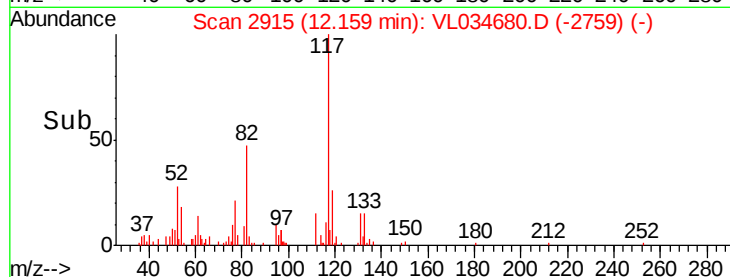
119 0.0 51.3 76.9#



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: 0.052 ppbv

RT: 12.18 min Scan# 2920

Delta R.T. -0.01 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

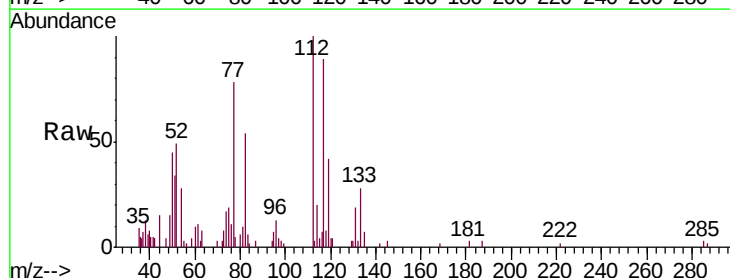
Tgt Ion:112 Resp: 9503

Ion Ratio Lower Upper

112 100

77 85.2 56.5 84.7#

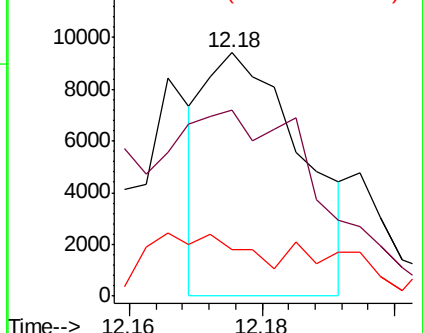
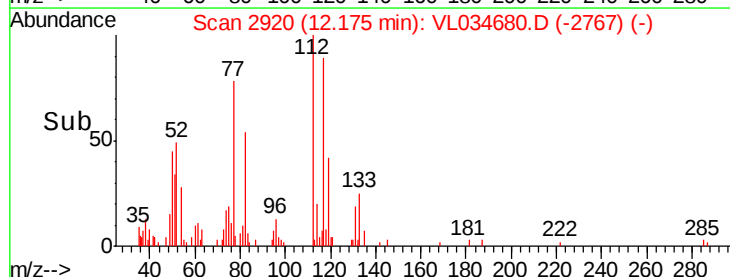
114 2.0 28.1 34.3#

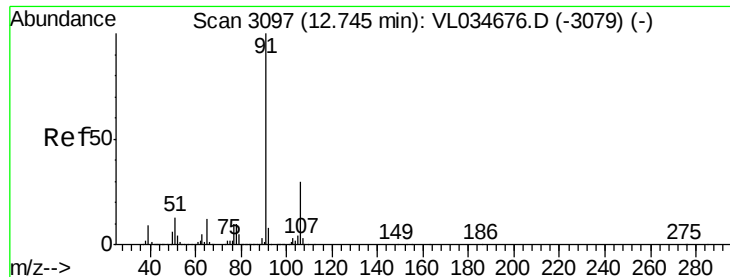


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): V

Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 0.022 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. 0.24 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

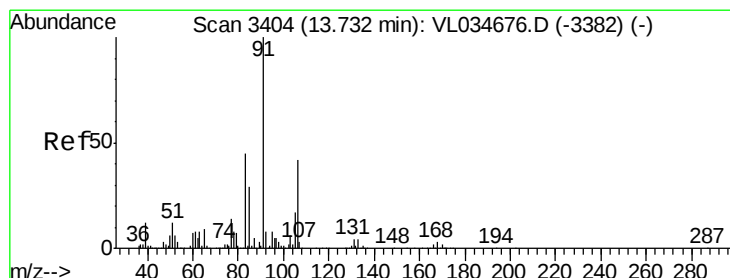
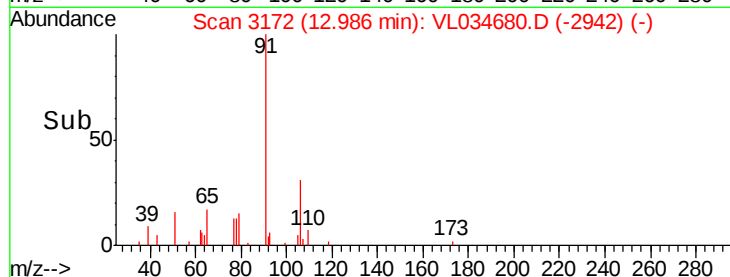
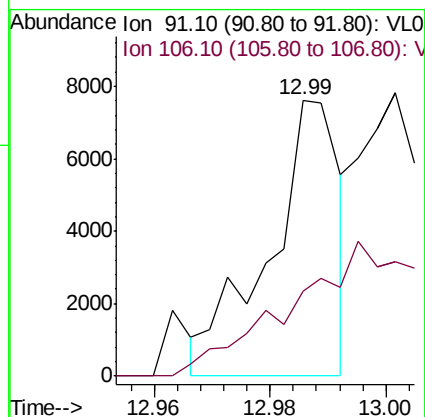
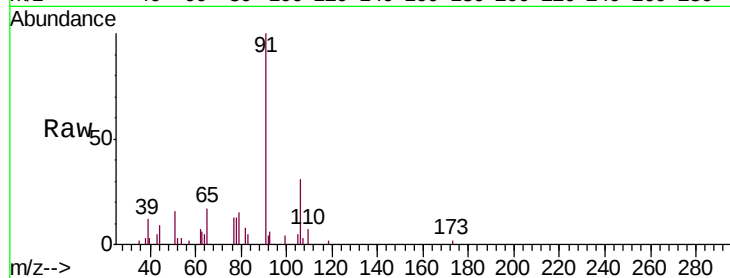
VSTDIC0.1

Tgt Ion: 91 Resp: 6435

Ion Ratio Lower Upper

91 100

106 29.6 24.0 36.0



#60

o-Xylene

Concen: 0.027 ppbv

RT: 13.73 min Scan# 3402

Delta R.T. -0.01 min

Lab File: VL034680.D

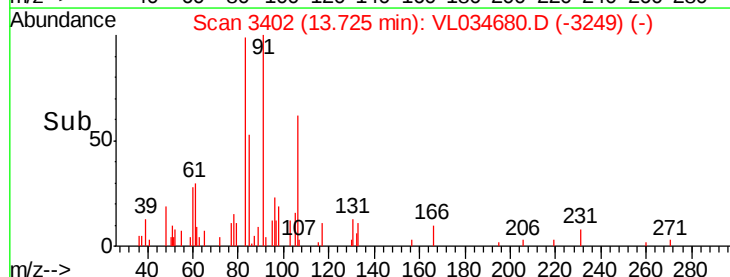
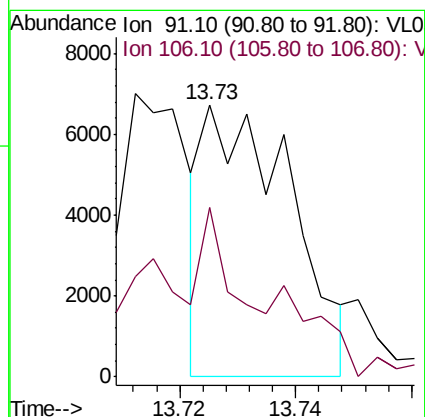
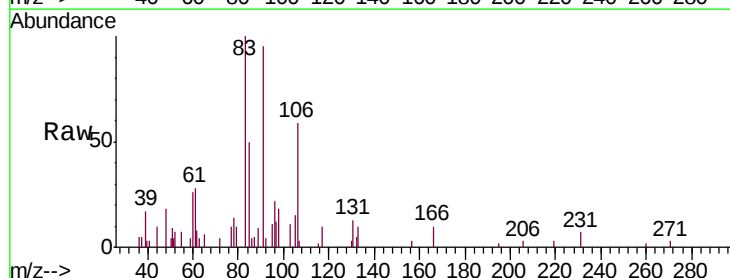
Acq: 26 Feb 2020 5:00

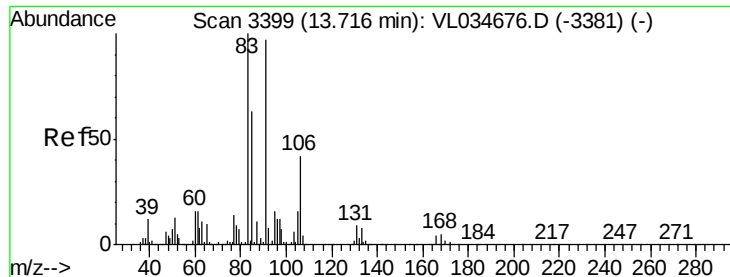
Tgt Ion: 91 Resp: 6991

Ion Ratio Lower Upper

91 100

106 91.7 21.9 65.5#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.044 ppbv

RT: 13.71 min Scan# 3398

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

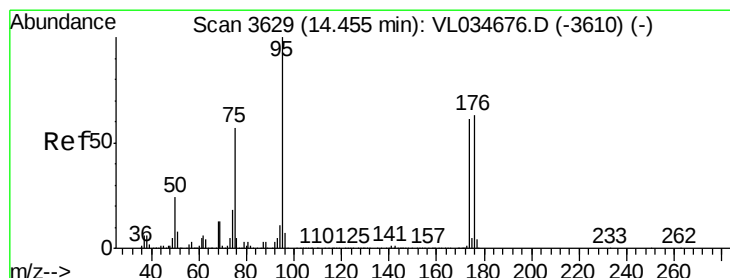
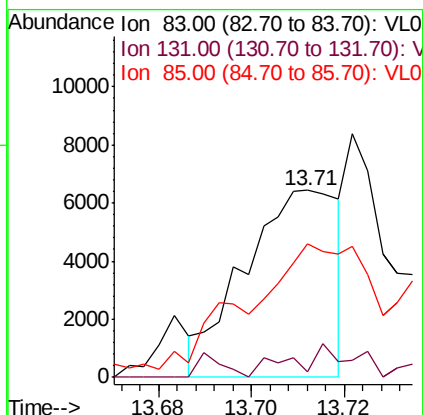
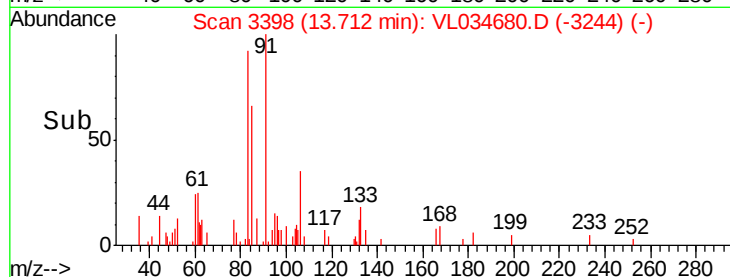
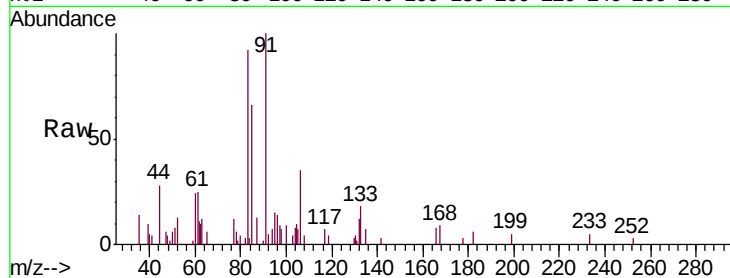
Tgt Ion: 83 Resp: 9035

Ion Ratio Lower Upper

83 100

131 0.0 4.4 13.2#

85 123.8 32.5 97.5#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.145 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

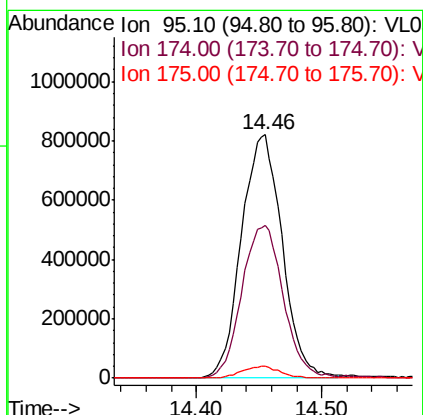
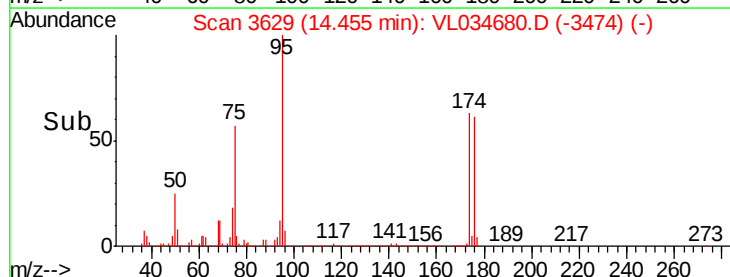
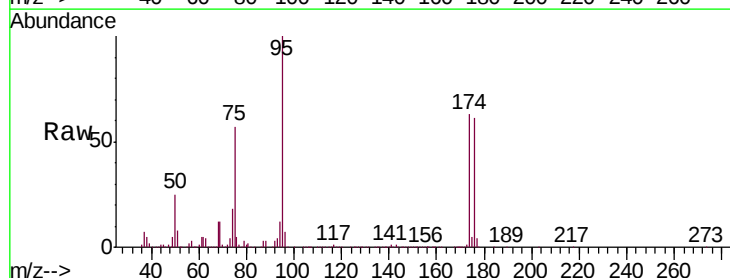
Tgt Ion: 95 Resp: 1857573

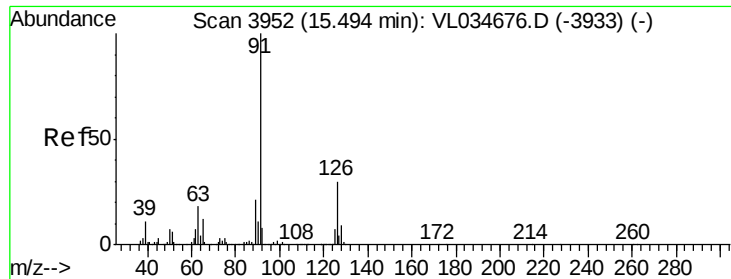
Ion Ratio Lower Upper

95 100

174 64.5 50.7 76.1

175 4.7 3.9 5.9

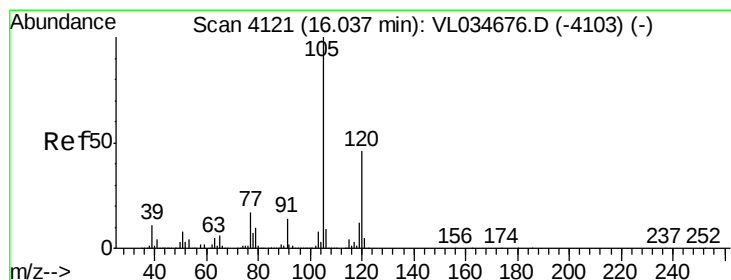
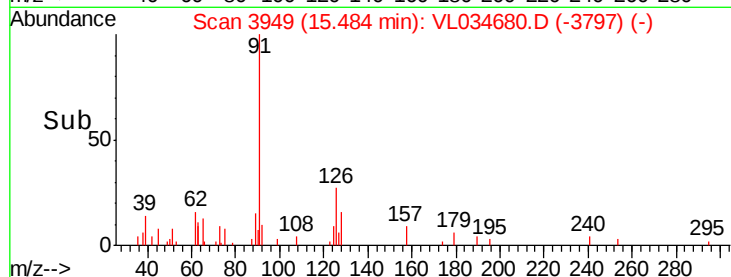
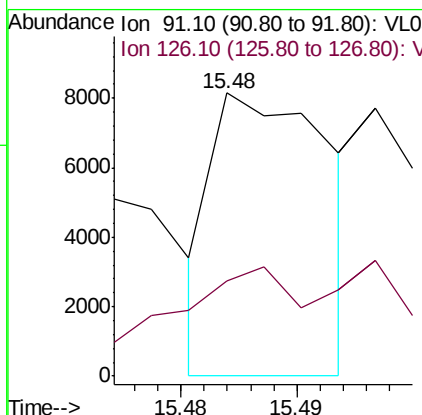
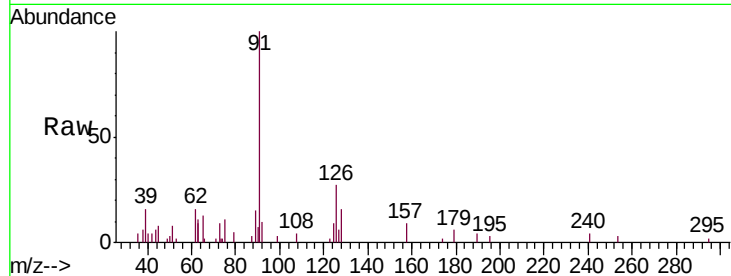




#71
 2-Chlorotoluene
 Concen: 0.022 ppbv
 RT: 15.48 min Scan# 3949
 Delta R.T. -0.01 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

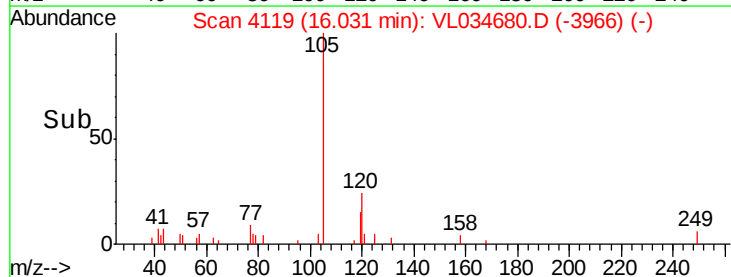
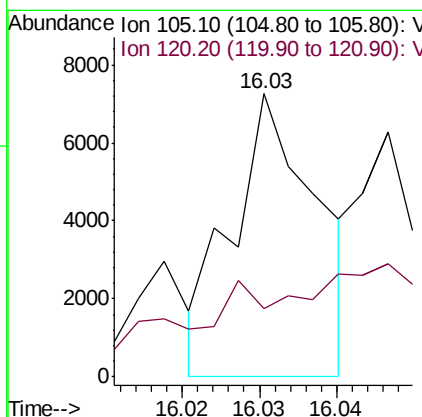
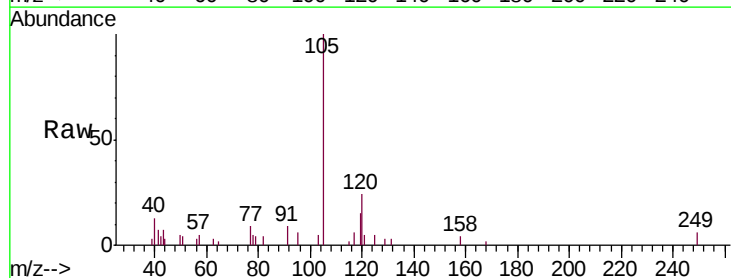
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

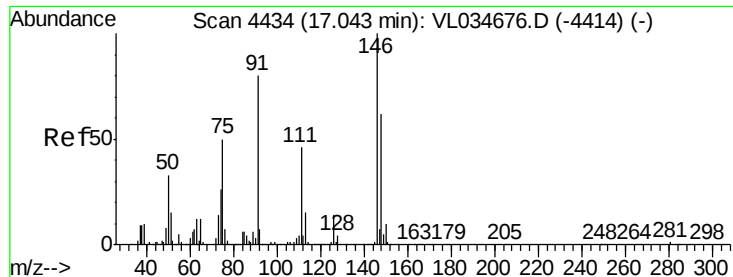
Tgt Ion: 91 Resp: 5720
 Ion Ratio Lower Upper
 91 100
 126 0.0 11.8 47.2#



#73
 1,3,5-Trimethylbenzene
 Concen: 0.020 ppbv
 RT: 16.03 min Scan# 4119
 Delta R.T. -0.01 min
 Lab File: VL034680.D
 Acq: 26 Feb 2020 5:00

Tgt Ion: 105 Resp: 5501
 Ion Ratio Lower Upper
 105 100
 120 9.5 37.1 55.7#





#75

1,3-Dichlorobenzene

Concen: 0.042 ppbv

RT: 17.04 min Scan# 4434

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

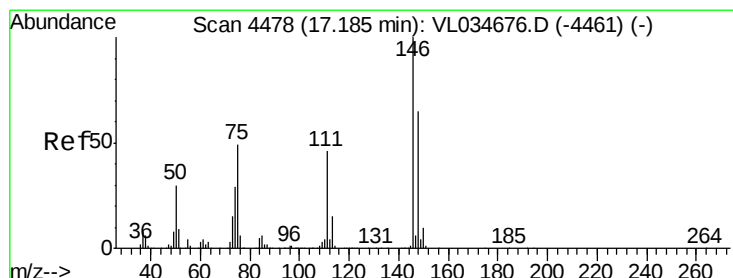
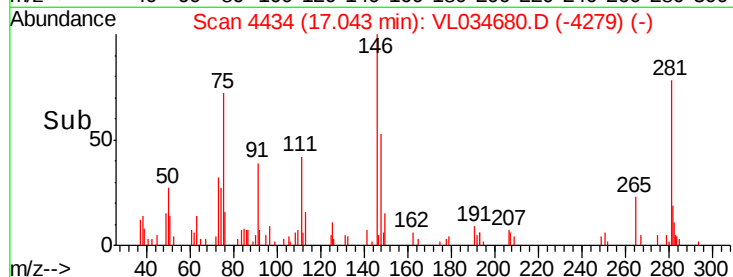
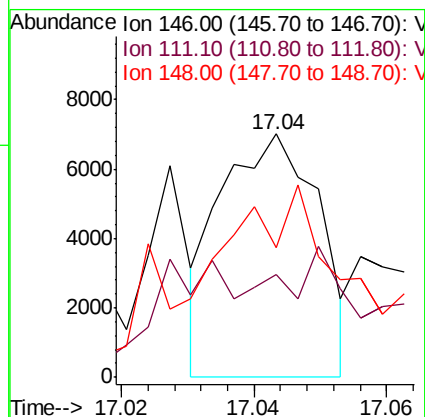
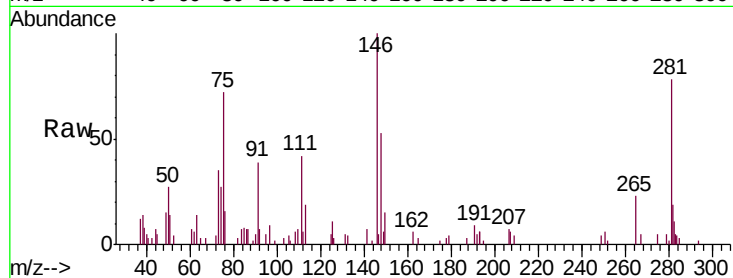
Tgt Ion:146 Resp: 7241

Ion Ratio Lower Upper

146 100

111 111.0 24.4 73.2#

148 151.7 32.5 97.4#



#76

1,4-Dichlorobenzene

Concen: 0.047 ppbv

RT: 17.18 min Scan# 4478

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

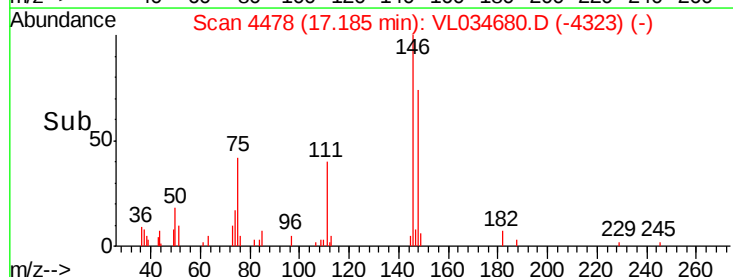
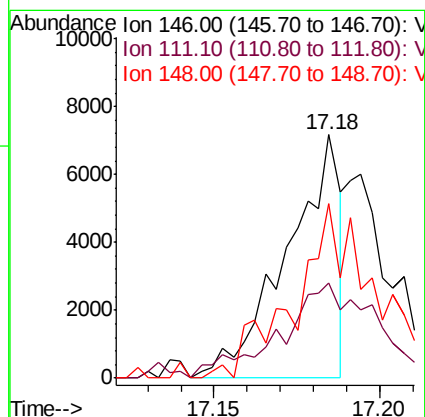
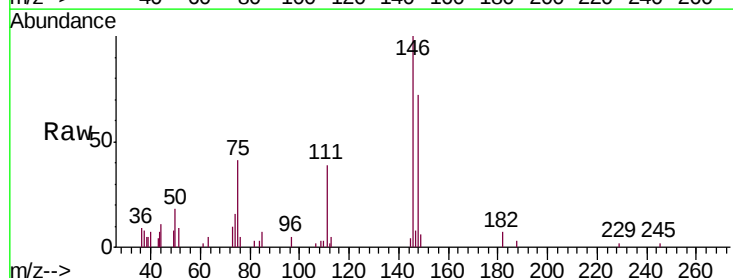
Tgt Ion:146 Resp: 8002

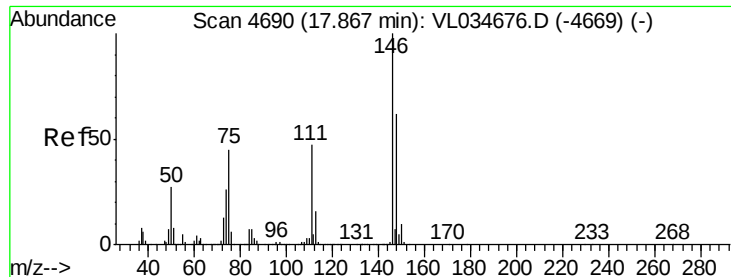
Ion Ratio Lower Upper

146 100

111 79.8 23.4 70.0#

148 115.6 31.9 95.5#





#77

1,2-Dichlorobenzene

Concen: 0.025 ppbv

RT: 17.86 min Scan# 4689

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

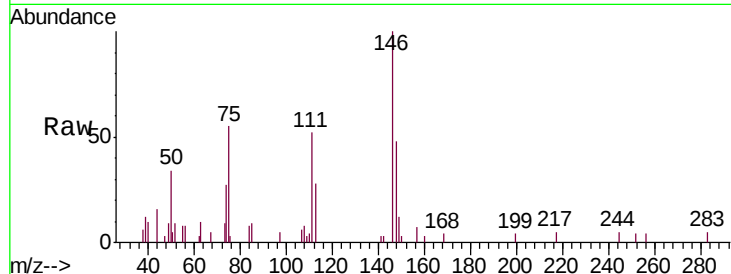
Tgt Ion:146 Resp: 4228

Ion Ratio Lower Upper

146 100

111 146.0 24.9 74.7#

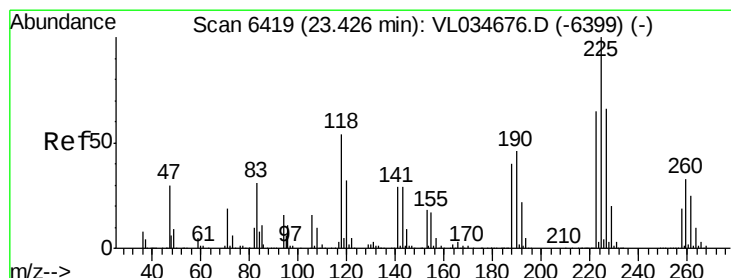
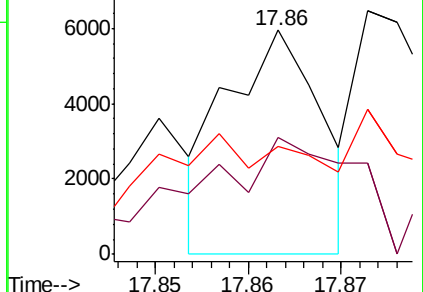
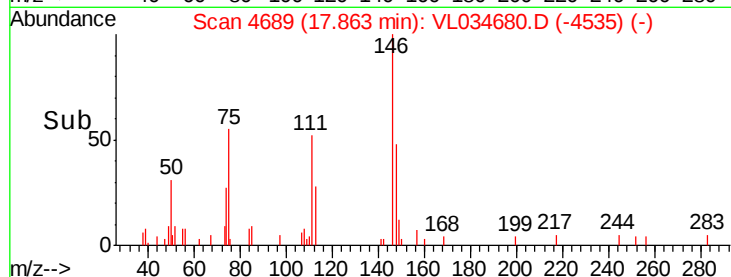
148 0.0 32.0 96.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.031 ppbv

RT: 23.43 min Scan# 6419

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

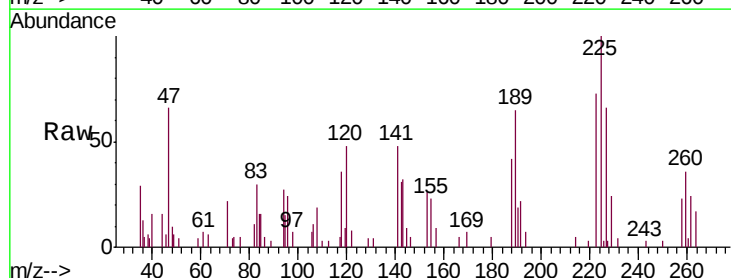
Tgt Ion:225 Resp: 4257

Ion Ratio Lower Upper

225 100

223 231.2 51.3 76.9#

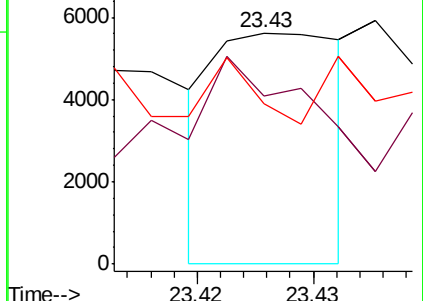
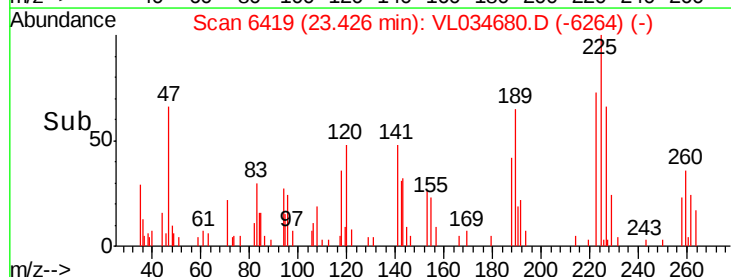
227 0.0 51.3 76.9#

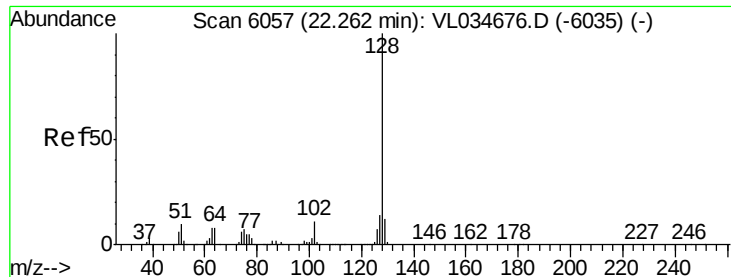


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.024 ppbv

RT: 22.26 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

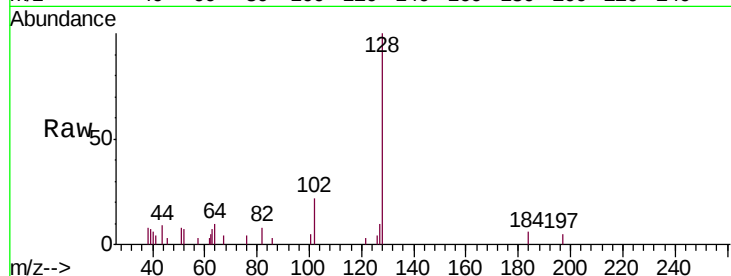
Tgt Ion:128 Resp: 5411

Ion Ratio Lower Upper

128 100

127 13.4 11.0 16.6

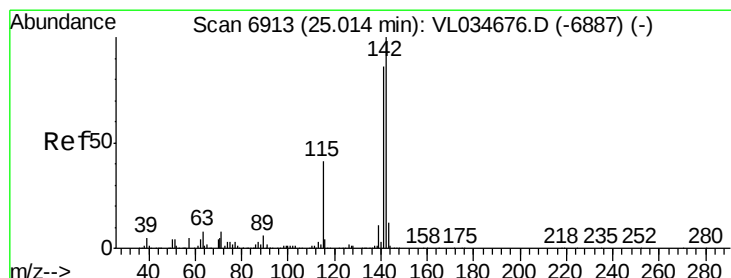
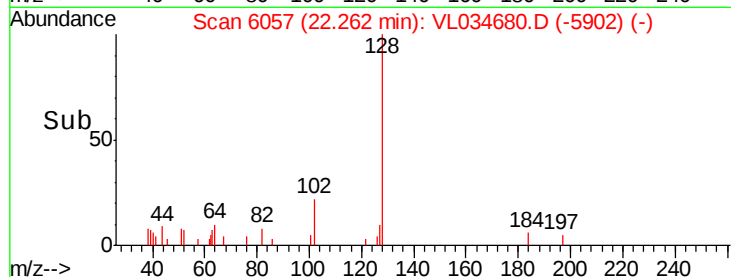
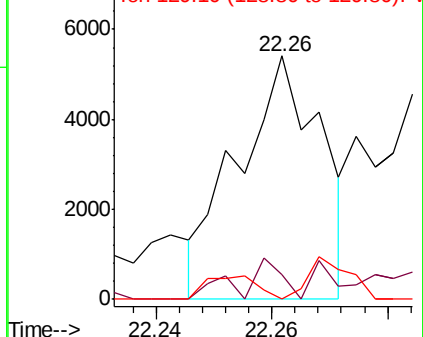
129 0.0 9.4 14.2#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.022 ppbv

RT: 25.04 min Scan# 6920

Delta R.T. 0.02 min

Lab File: VL034680.D

Acq: 26 Feb 2020 5:00

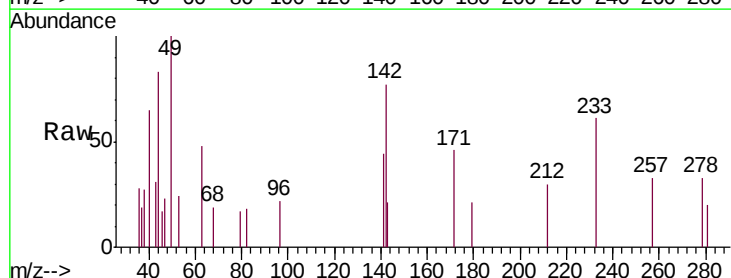
Tgt Ion:142 Resp: 1049

Ion Ratio Lower Upper

142 100

141 82.2 66.5 99.7

115 48.0 30.6 46.0#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

