

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050119\
 Data File : VL033619.D
 Acq On : 1 May 2019 15:09
 Operator : SY/AP
 Sample : VSTDIC0.03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Quant Time: May 02 04:09:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 04:03:11 2019
 QLast Update : Thu May 02 04:03:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1043007	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2438900	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2494113	10.00	ppbv	0.00

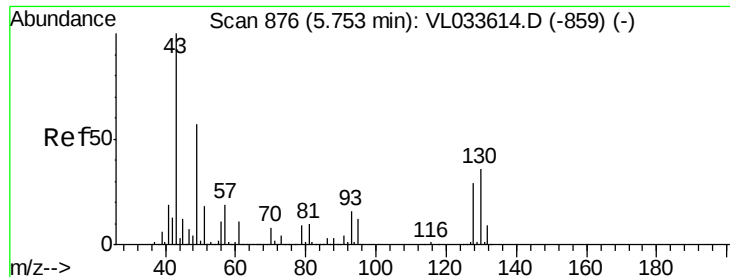
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2044104	10.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.07	85	8954	0.057	ppbv	97
3) Chlorodifluoromethane	3.00	51	5988	0.045	ppbv	94
5) Vinyl Chloride	3.28	62	1192	0.017	ppbv #	73
6) Bromomethane	3.50	94	1045	0.025	ppbv #	26
7) Chloroethane	3.59	64	668	0.028	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	7128	0.042	ppbv	93
9) Propene	3.33	41	377	0.011	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.54	101	4432	0.035	ppbv	86
13) Ethanol	3.64	45	280	0.017	ppbv #	38
14) Bromoethene	3.78	108	1033	0.020	ppbv #	1
16) 1,3-Butadiene	3.36	39	1166	0.020	ppbv #	1
18) 1,1-Dichloroethene	4.34	96	726	0.013	ppbv #	71
20) Methylene Chloride	4.40	84	2334	0.047	ppbv #	93
21) Allyl Chloride	4.46	41	895	0.011	ppbv #	1
22) trans-1,2-Dichloroethene	4.95	96	1345	0.025	ppbv #	46
23) Vinyl Acetate	5.15	43	2382	0.013	ppbv #	17
24) 1,1-Dichloroethane	5.08	63	3628	0.026	ppbv #	92
25) Ethyl Acetate	5.77	43	3047	0.013	ppbv #	60
26) Hexane	5.76	57	1170	0.012	ppbv #	1
27) Carbon Disulfide	4.62	76	2462	0.020	ppbv #	1
29) Chloroform	5.83	83	5487	0.030	ppbv	91
30) Cyclohexane	7.23	84	952	0.011	ppbv #	1
31) cis-1,2-Dichloroethene	5.63	61	1134	0.011	ppbv	95
35) Carbon Tetrachloride	7.12	117	3825	0.020	ppbv #	23
36) Benzene	6.99	78	4190	0.020	ppbv #	93
37) 1,2-Dichloroethane	6.40	62	2506	0.018	ppbv #	84
39) 1,2-Dichloropropane	7.28	63	641451	8.185	ppbv #	25
40) 1,4-Dioxane	8.00	88	414	0.013	ppbv #	1
42) Bromodichloromethane	7.91	83	4017	0.021	ppbv #	41
48) Dibromochloromethane	10.44	129	2918	0.017	ppbv	88
49) Bromoform	13.19	173	1472	0.011	ppbv #	27
52) Tetrachloroethene	11.36	164	808	0.010	ppbv #	27
54) 1,2-Dibromoethane	10.74	107	3773	0.027	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.27	131	1597	0.015	ppbv #	1
57) Chlorobenzene	12.29	112	7533	0.039	ppbv #	90
76) 1,4-Dichlorobenzene	17.30	146	2703	0.014	ppbv #	26
80) Naphthalene,2-methyl-	25.12	142	1877	0.015	ppbv #	78

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.00 min

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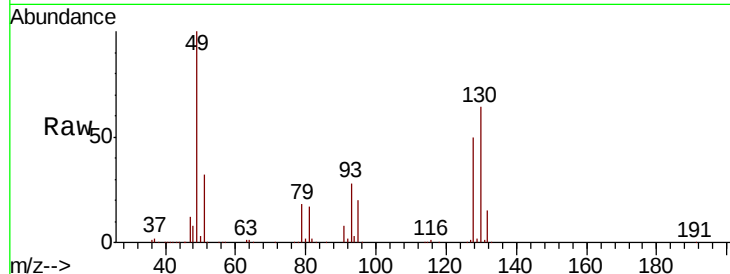
Tgt Ion: 49 Resp: 1043007

Ion Ratio Lower Upper

49 100

128 48.9 25.0 75.0

130 63.3 31.9 95.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

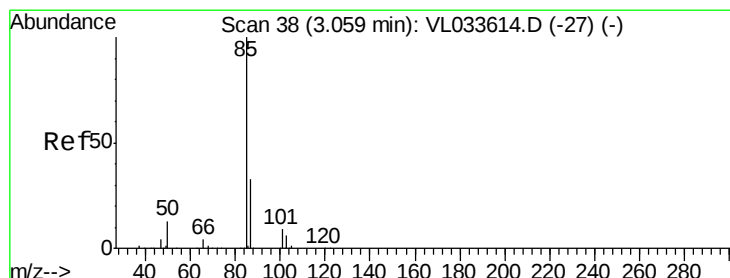
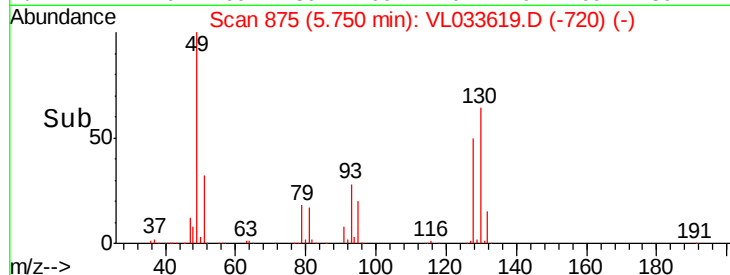
400000

200000

0

5.65 5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 0.057 ppbv

RT: 3.07 min Scan# 40

Delta R.T. 0.01 min

Lab File: VL033619.D

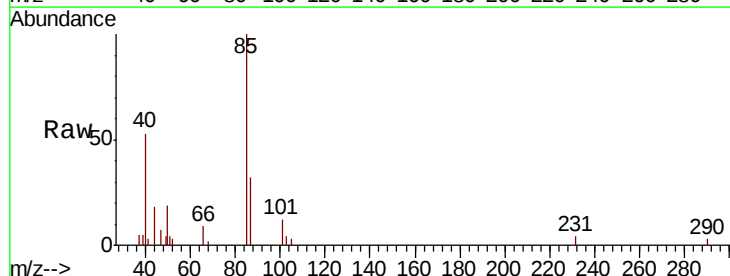
Acq: 1 May 2019 15:09

Tgt Ion: 85 Resp: 8954

Ion Ratio Lower Upper

85 100

87 31.9 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

8000

6000

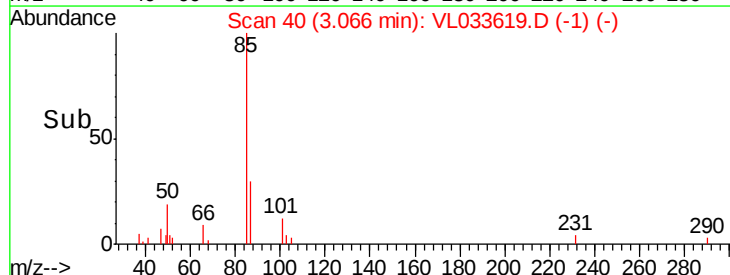
4000

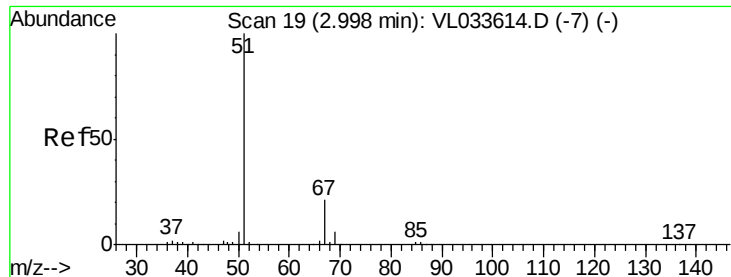
2000

0

3.04 3.06 3.08 3.10

Time-->

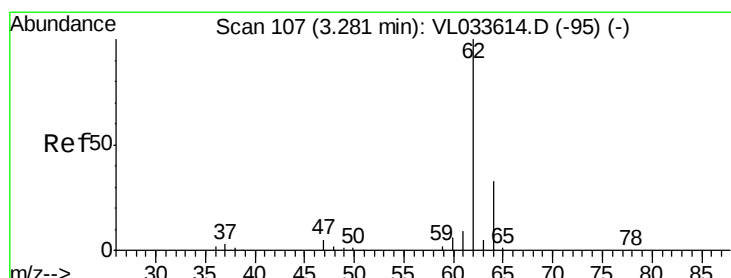
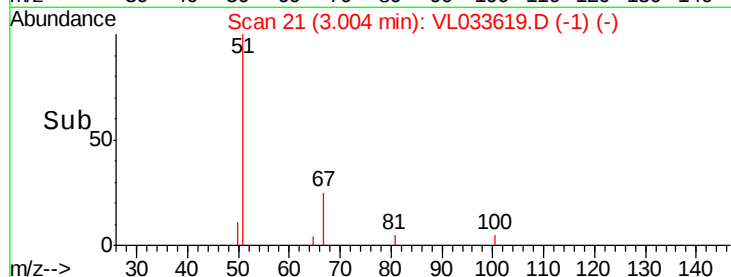
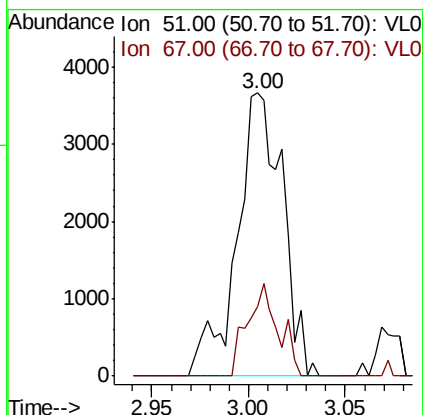
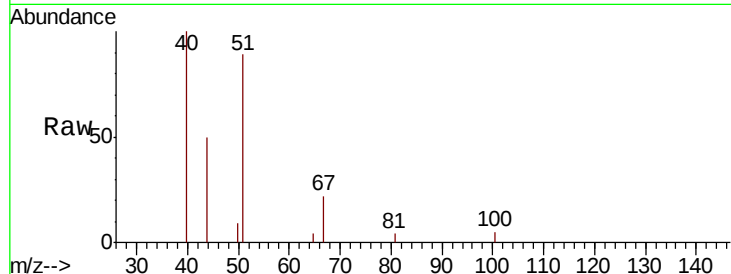




#3
Chlorodifluoromethane
Concen: 0.045 ppbv
RT: 3.00 min Scan# 21
Delta R.T. 0.01 min
Lab File: VL033619.D
Acq: 1 May 2019 15:09

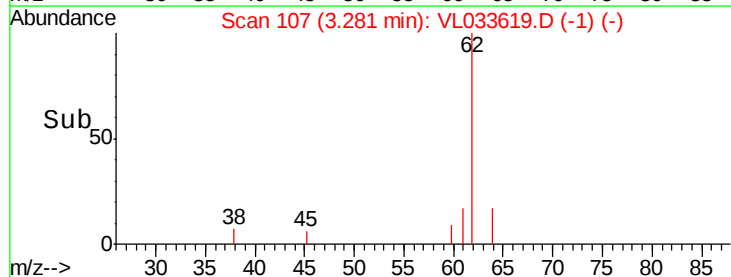
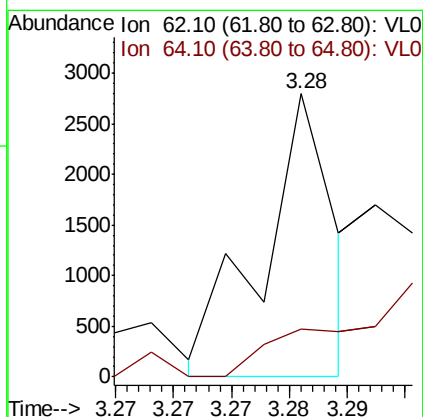
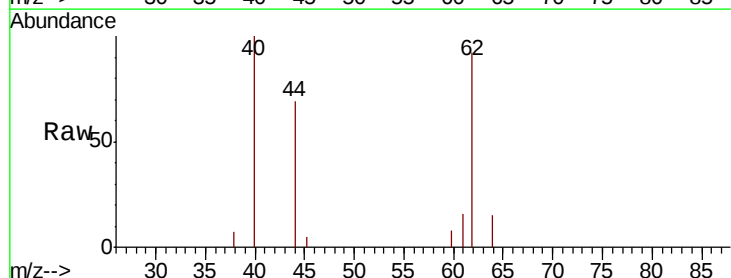
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

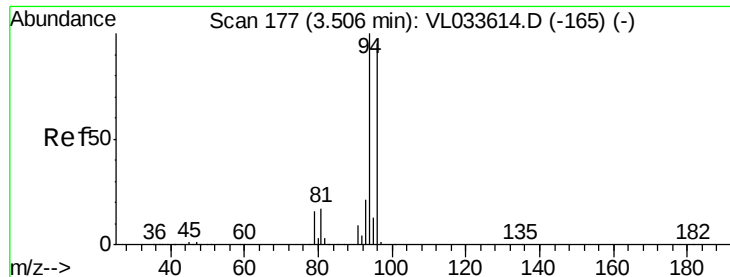
Tgt Ion: 51 Resp: 5988
Ion Ratio Lower Upper
51 100
67 22.3 15.6 23.4



#5
Vinyl Chloride
Concen: 0.017 ppbv
RT: 3.28 min Scan# 107
Delta R.T. 0.00 min
Lab File: VL033619.D
Acq: 1 May 2019 15:09

Tgt Ion: 62 Resp: 1192
Ion Ratio Lower Upper
62 100
64 17.8 26.2 39.4#





#6

Bromomethane

Concen: 0.025 ppbv

RT: 3.50 min Scan# 176

Delta R.T. -0.00 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampleId :

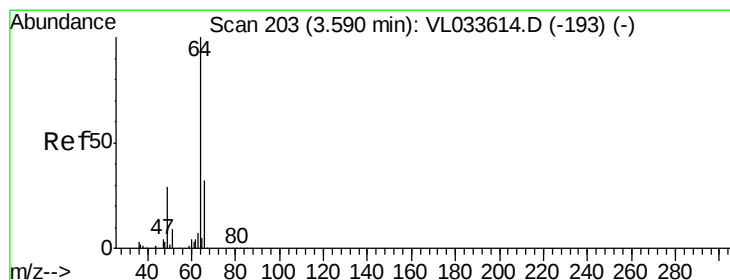
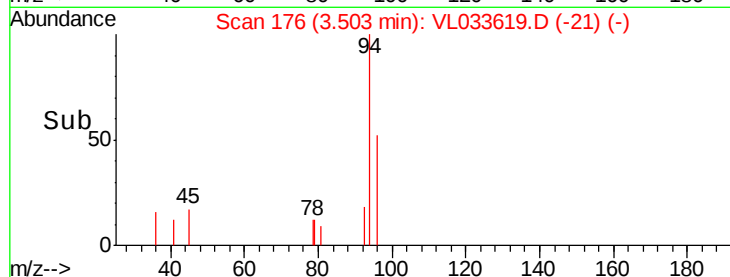
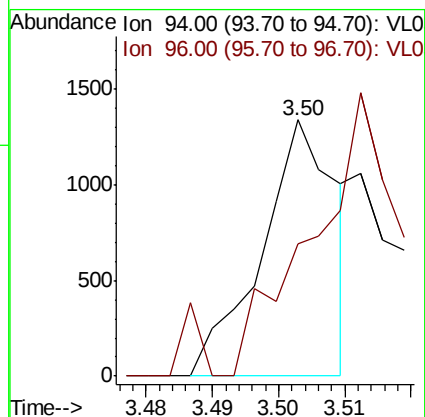
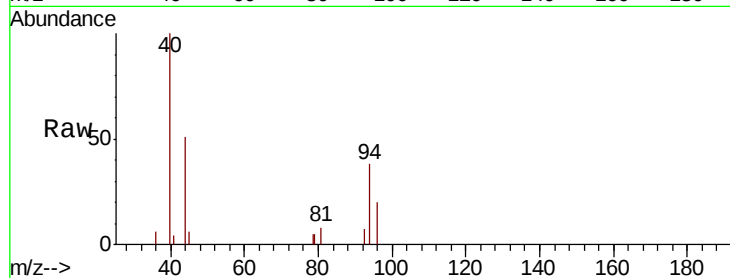
VSTDIC0.03

Tgt Ion: 94 Resp: 1045

Ion Ratio Lower Upper

94 100

96 23.0 75.7 113.5#



#7

Chloroethane

Concen: 0.028 ppbv

RT: 3.59 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL033619.D

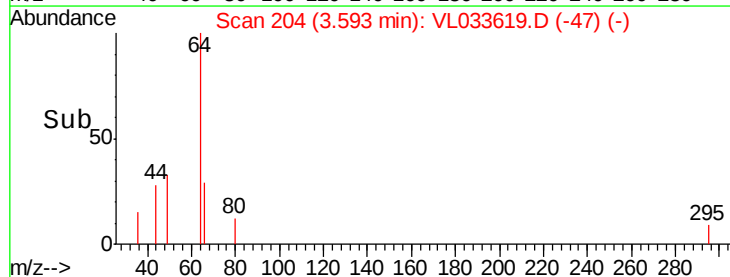
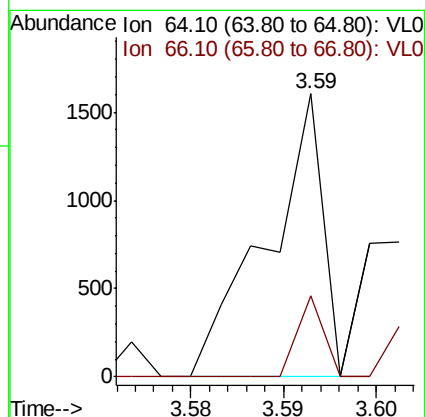
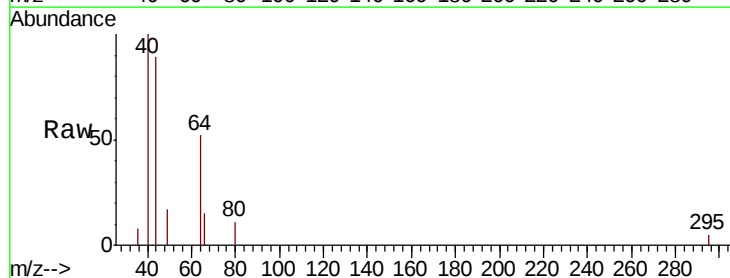
Acq: 1 May 2019 15:09

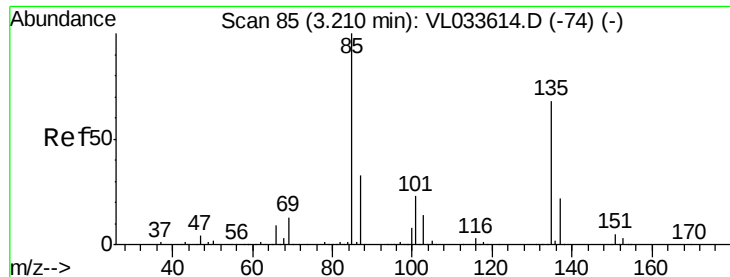
Tgt Ion: 64 Resp: 668

Ion Ratio Lower Upper

64 100

66 28.9 25.4 38.2





#8

Dichlorotetrafluoroethane

Concen: 0.042 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.01 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampleId :

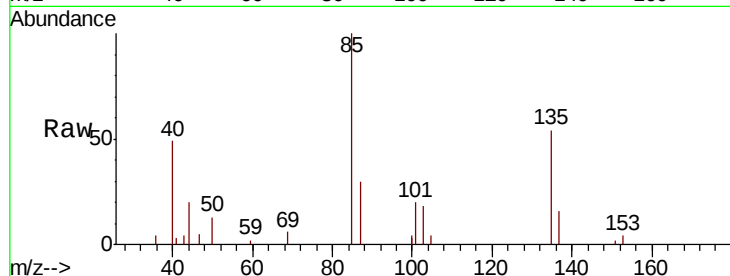
VSTDIC0.03

Tgt Ion: 85 Resp: 7128

Ion Ratio Lower Upper

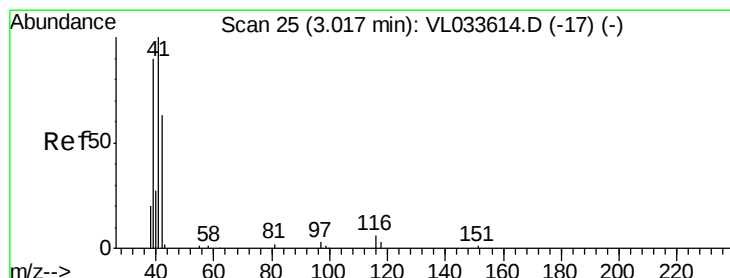
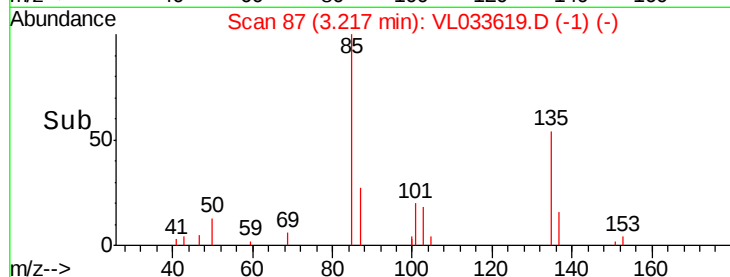
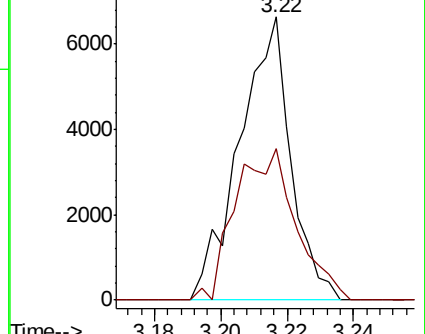
85 100

135 63.5 55.0 82.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.011 ppbv

RT: 3.33 min Scan# 123

Delta R.T. 0.32 min

Lab File: VL033619.D

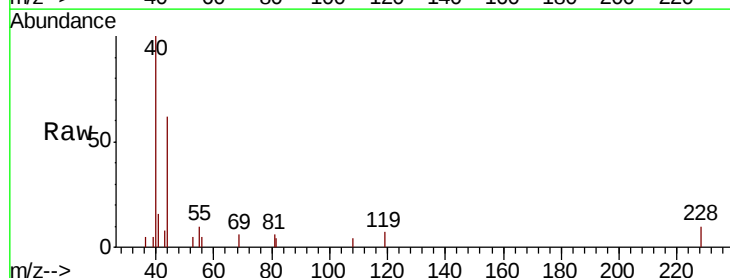
Acq: 1 May 2019 15:09

Tgt Ion: 41 Resp: 377

Ion Ratio Lower Upper

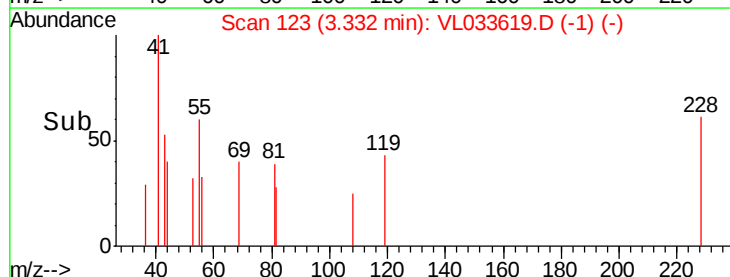
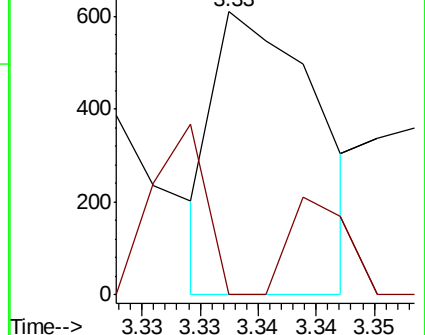
41 100

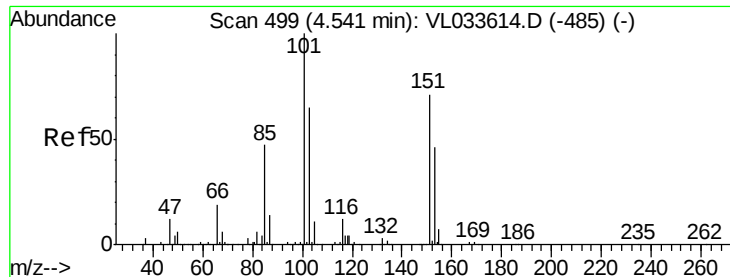
42 71.9 66.0 99.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.035 ppbv

RT: 4.54 min Scan# 500

Delta R.T. 0.00 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

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ClientSampleId :

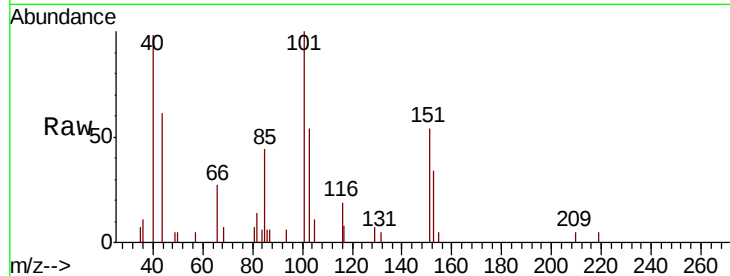
VSTDIC0.03

Tgt Ion:101 Resp: 4432

Ion Ratio Lower Upper

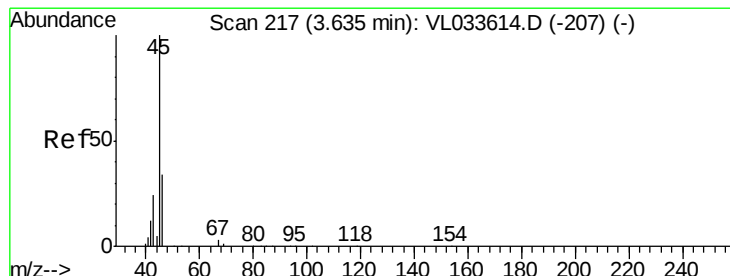
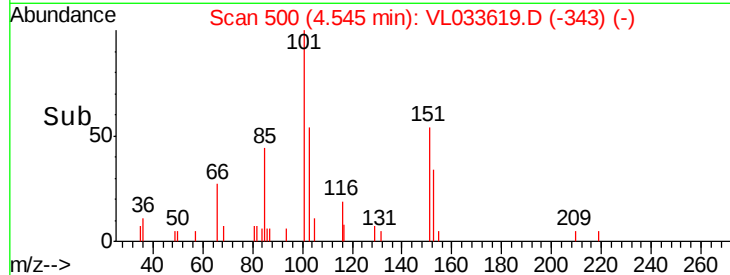
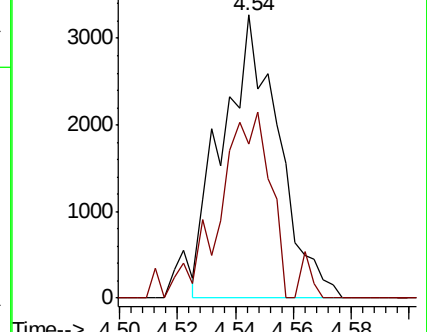
101 100

151 62.4 59.2 88.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.017 ppbv

RT: 3.64 min Scan# 218

Delta R.T. 0.00 min

Lab File: VL033619.D

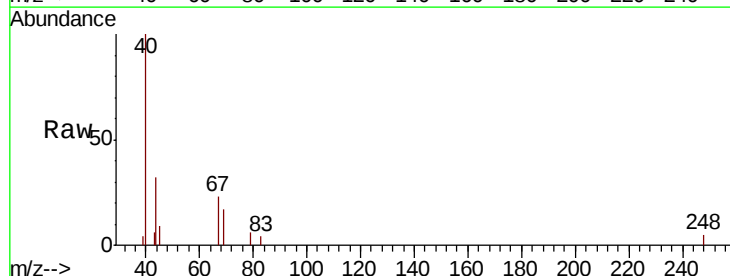
Acq: 1 May 2019 15:09

Tgt Ion: 45 Resp: 280

Ion Ratio Lower Upper

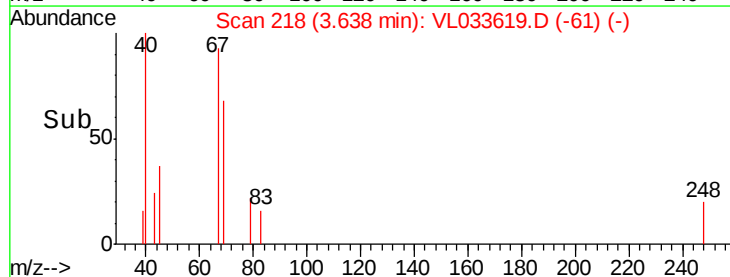
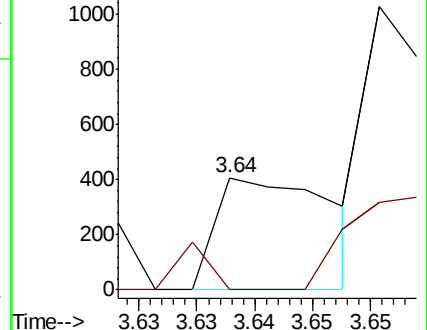
45 100

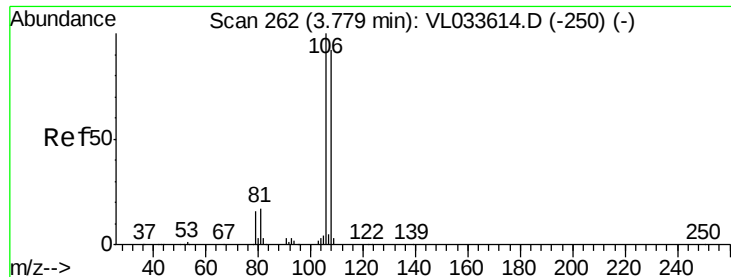
46 0.0 14.6 58.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.020 ppbv

RT: 3.78 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

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VSTDIC0.03

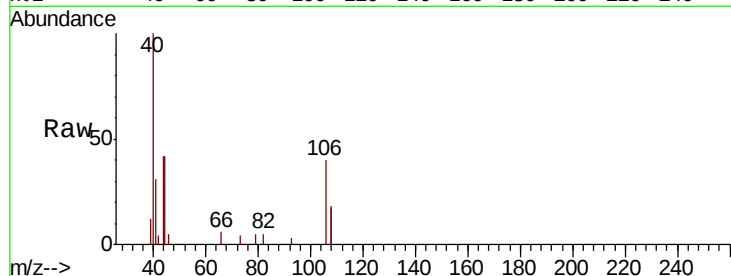
Tgt Ion: 108 Resp: 1033

Ion Ratio Lower Upper

108 100

106 213.9 84.6 127.0#

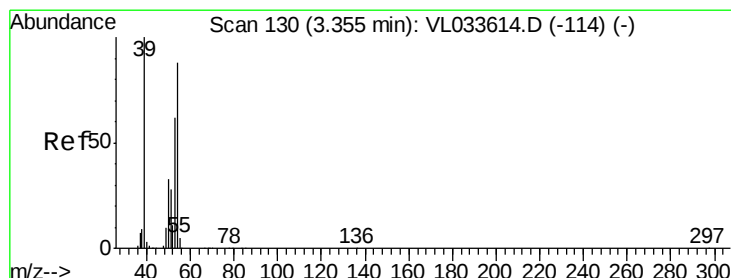
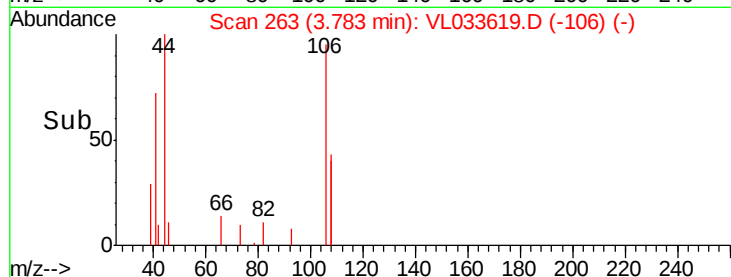
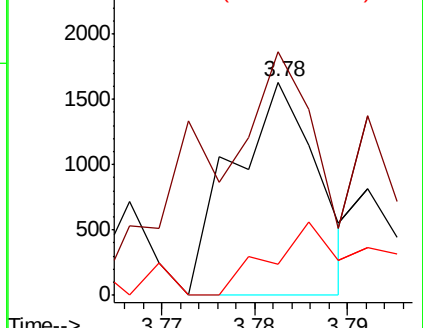
79 52.3 14.4 21.6#



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): VLO



#16

1,3-Butadiene

Concen: 0.020 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033619.D

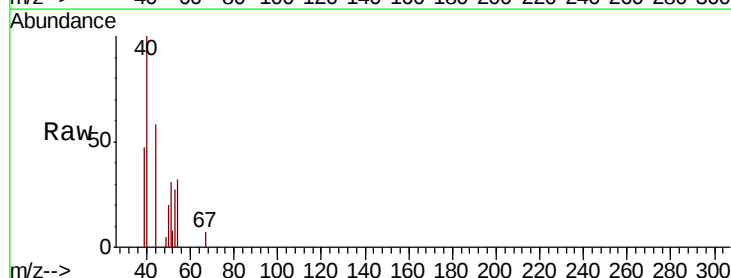
Acq: 1 May 2019 15:09

Tgt Ion: 39 Resp: 1166

Ion Ratio Lower Upper

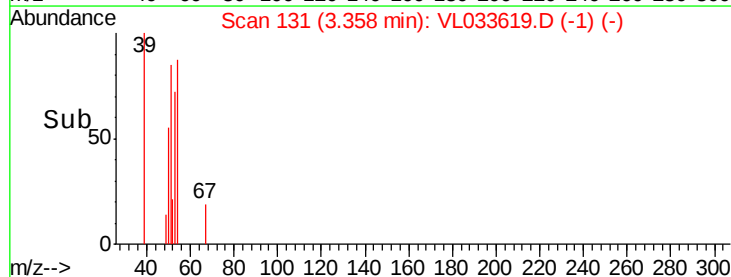
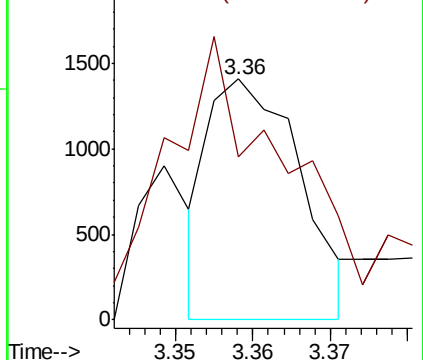
39 100

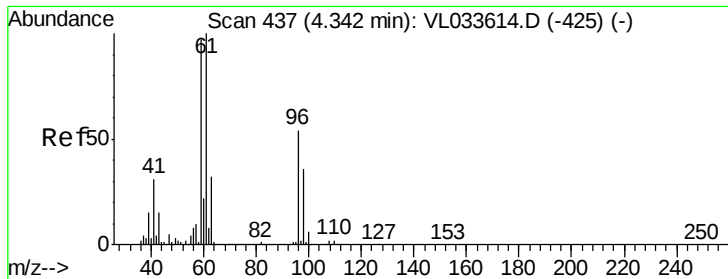
54 187.5 68.4 102.6#



Abundance Ion 39.10 (38.80 to 39.80): VLO

Ion 54.10 (53.80 to 54.80): VLO





#18

1,1-Dichloroethene

Concen: 0.013 ppbv

RT: 4.34 min Scan# 435

Delta R.T. -0.01 min

Lab File: VL033619.D

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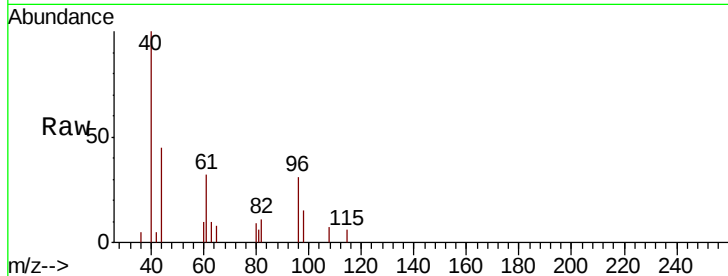
Tgt Ion: 96 Resp: 726

Ion Ratio Lower Upper

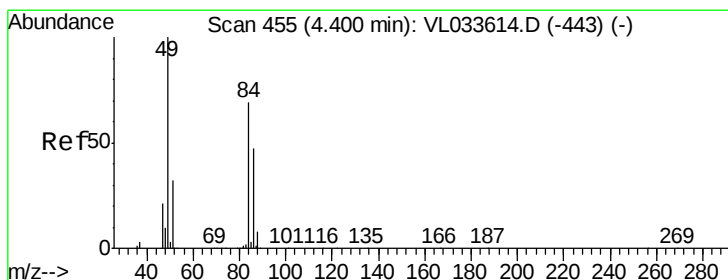
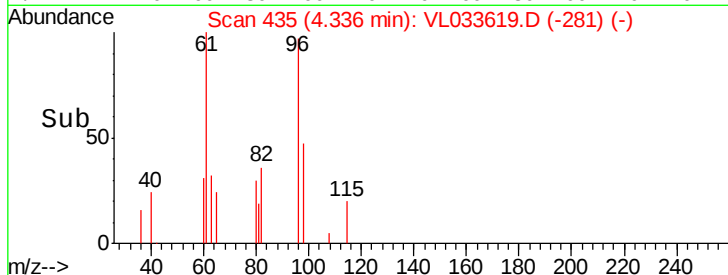
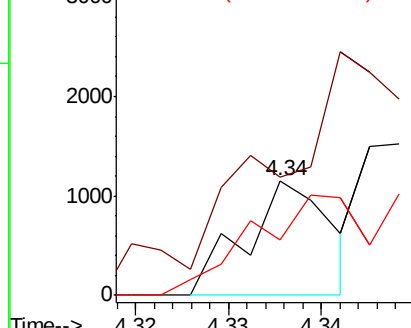
96 100

61 134.2 147.3 220.9#

98 57.7 53.6 80.4



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#20

Methylene Chloride

Concen: 0.047 ppbv

RT: 4.40 min Scan# 454

Delta R.T. -0.00 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Tgt Ion: 84 Resp: 2334

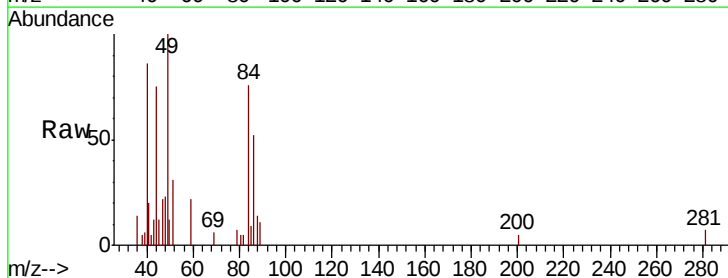
Ion Ratio Lower Upper

84 100

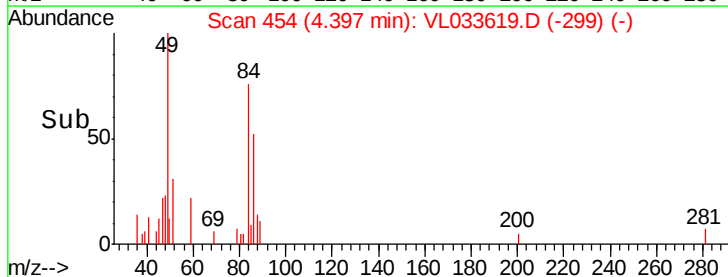
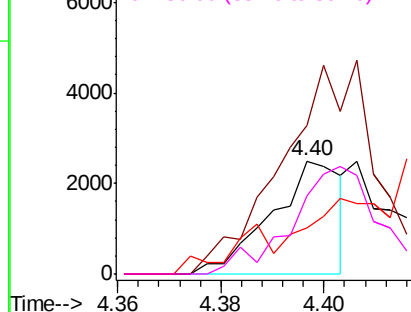
49 147.0 116.2 174.2

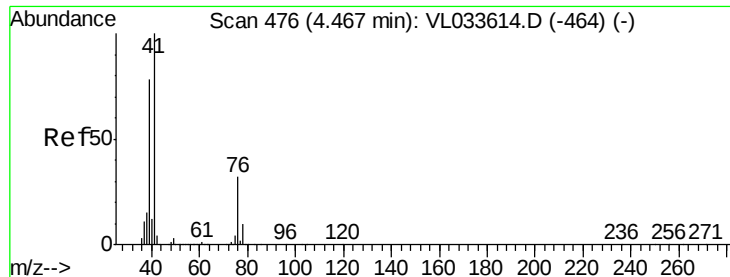
51 25.3 37.0 55.6#

86 68.5 54.0 81.0



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: 0.011 ppbv

RT: 4.46 min Scan# 475

Delta R.T. -0.00 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampled :

VSTDIC0.03

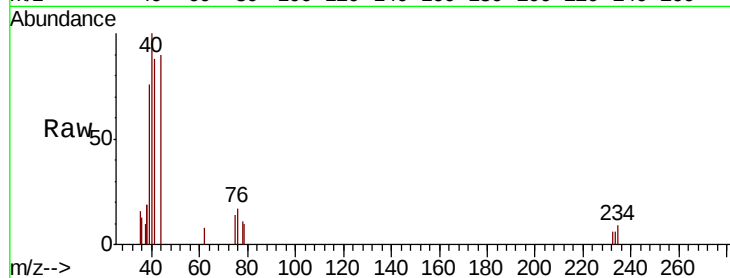
Tgt Ion: 41 Resp: 895

Ion Ratio Lower Upper

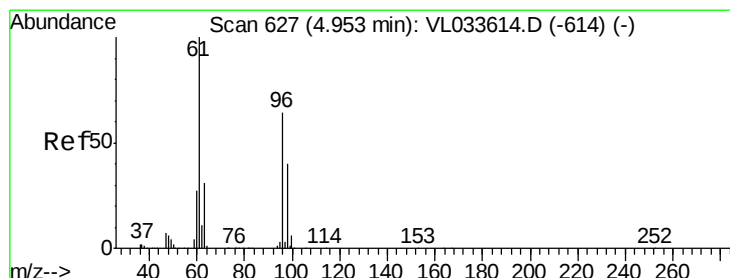
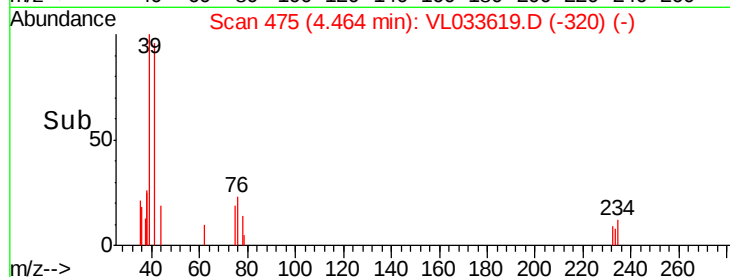
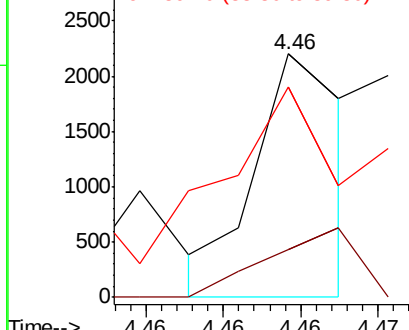
41 100

76 0.0 25.0 37.6#

39 313.0 64.6 96.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.025 ppbv

RT: 4.95 min Scan# 625

Delta R.T. -0.01 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

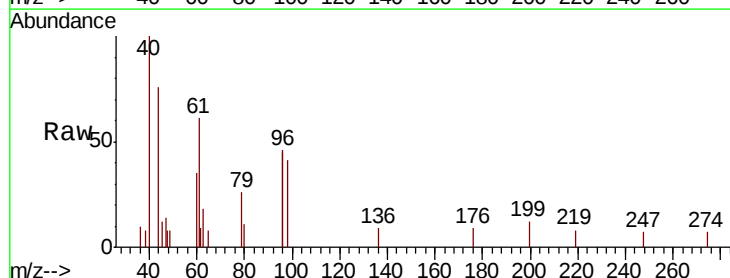
Tgt Ion: 96 Resp: 1345

Ion Ratio Lower Upper

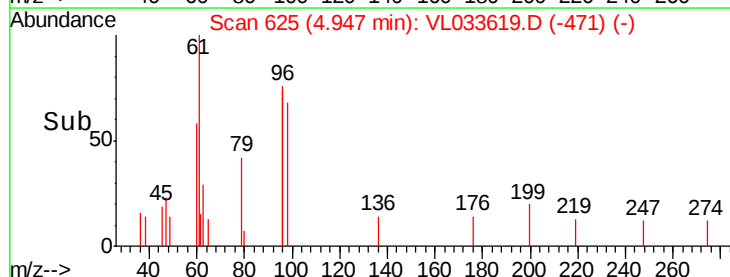
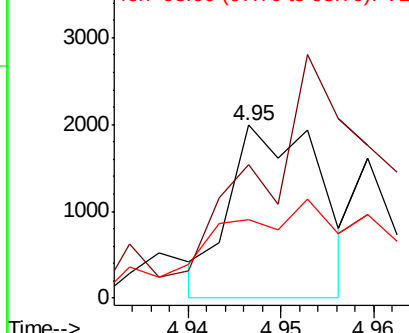
96 100

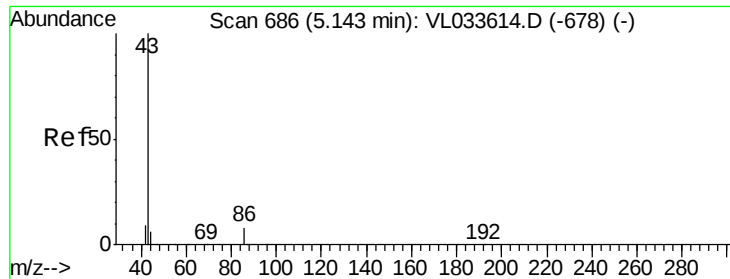
61 77.8 124.9 187.3#

98 33.4 50.5 75.7#



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





#23

Vinyl Acetate

Concen: 0.013 ppbv

RT: 5.15 min Scan# 688

Delta R.T. 0.01 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 43 Resp: 2382

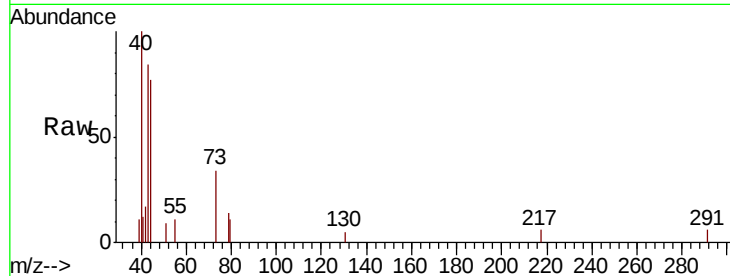
Ion Ratio Lower Upper

43 100

86 0.0 5.8 8.8#

42 29.5 7.8 11.8#

44 76.8 4.6 7.0#

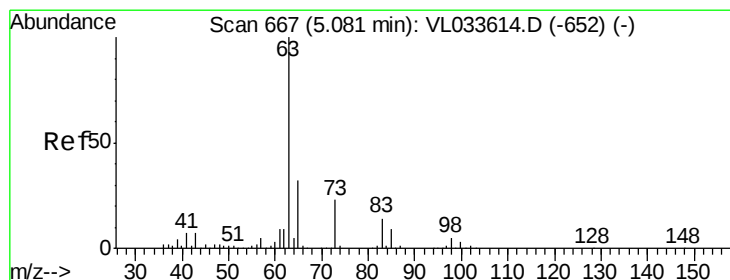
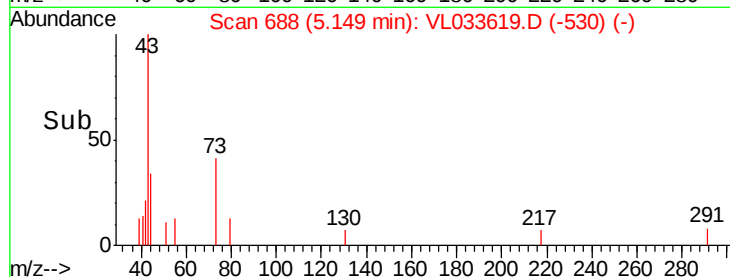
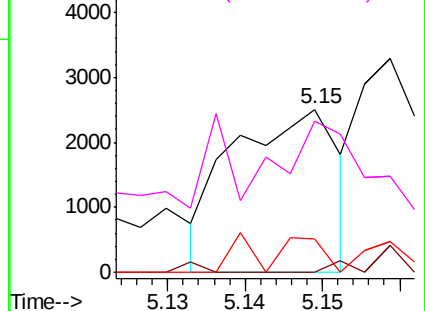


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.026 ppbv

RT: 5.08 min Scan# 668

Delta R.T. 0.00 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

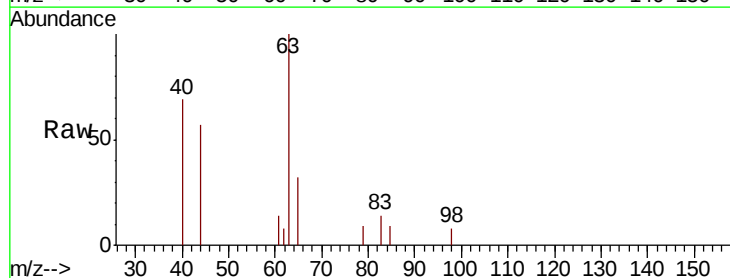
Tgt Ion: 63 Resp: 3628

Ion Ratio Lower Upper

63 100

98 7.5 2.4 7.2#

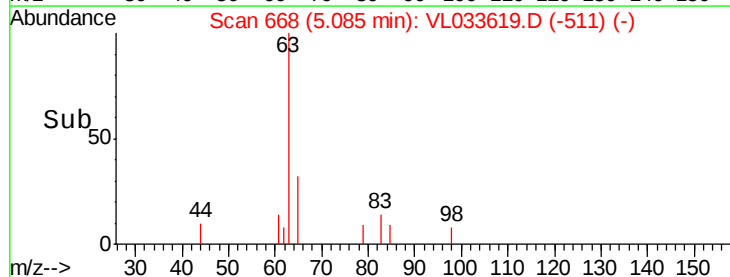
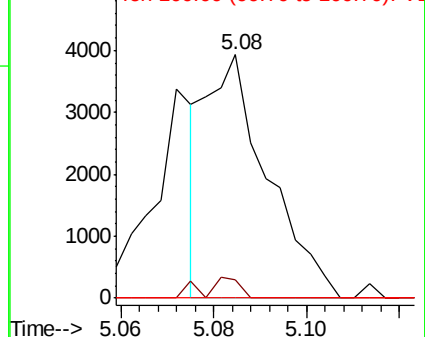
100 0.0 1.4 4.0#

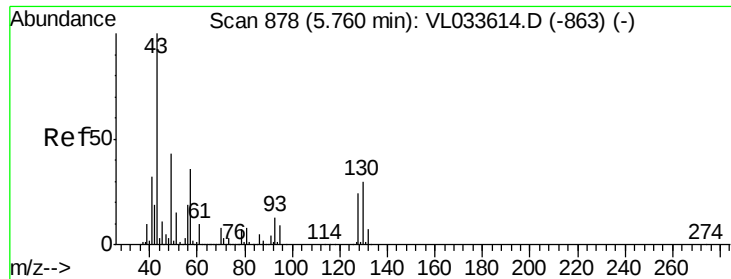


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

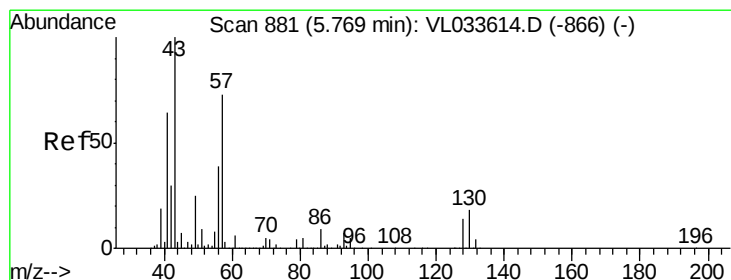
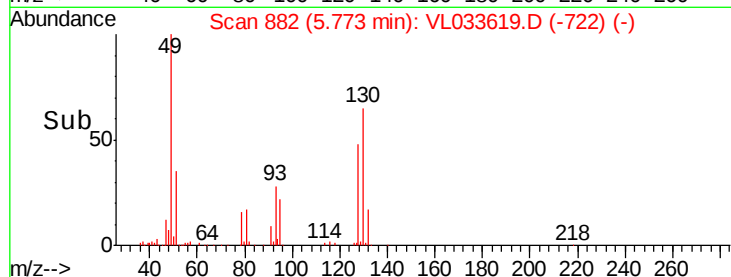
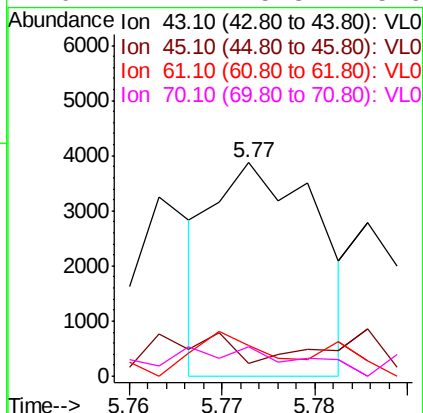
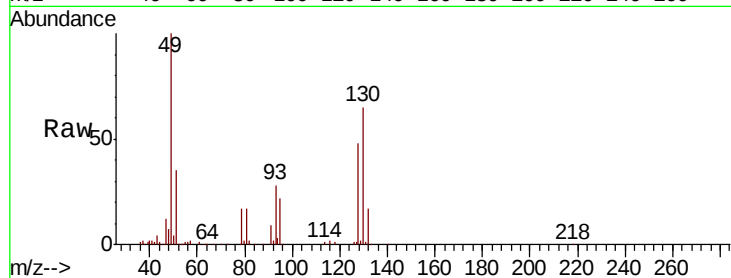




#25
Ethyl Acetate
Concen: 0.013 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033619.D
Acq: 1 May 2019 15:09

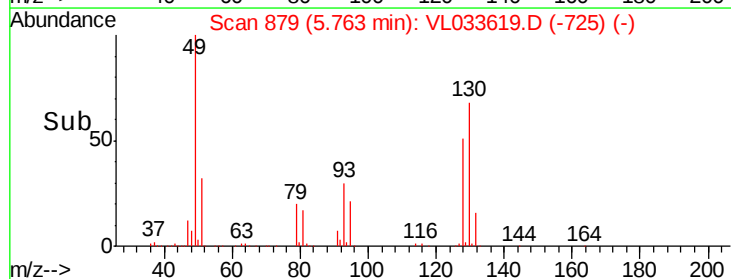
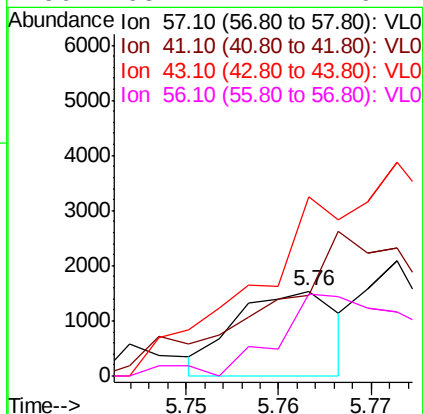
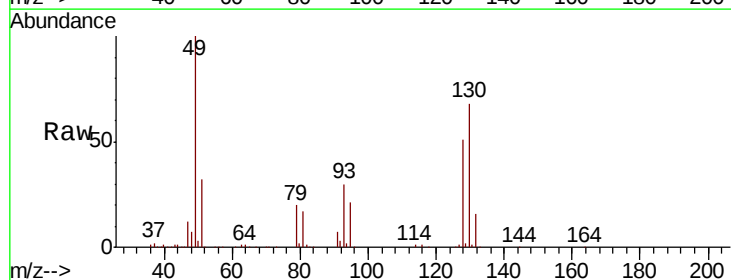
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

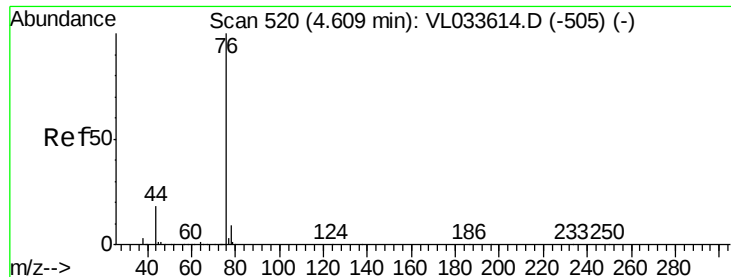
Tgt Ion:	43	Resp:	3047
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	28.9	7.5	11.3#
70	21.2	5.8	8.6#



#26
Hexane
Concen: 0.012 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.01 min
Lab File: VL033619.D
Acq: 1 May 2019 15:09

Tgt Ion:	57	Resp:	1170
Ion	Ratio	Lower	Upper
57	100		
41	323.2	70.6	106.0#
43	0.0	186.0	279.0#
56	168.7	42.7	64.1#





#27

Carbon Disulfide

Concen: 0.020 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.01 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

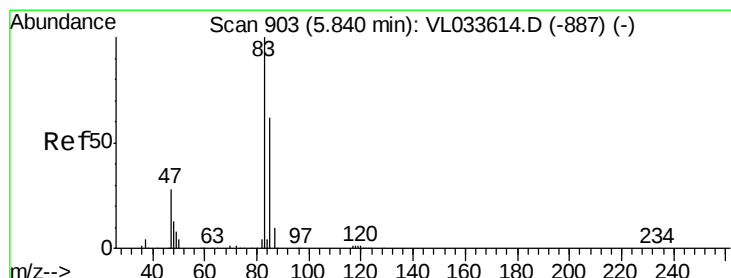
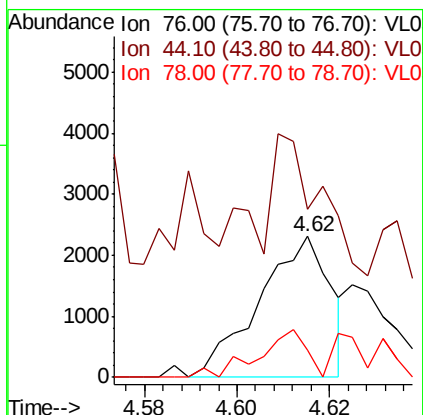
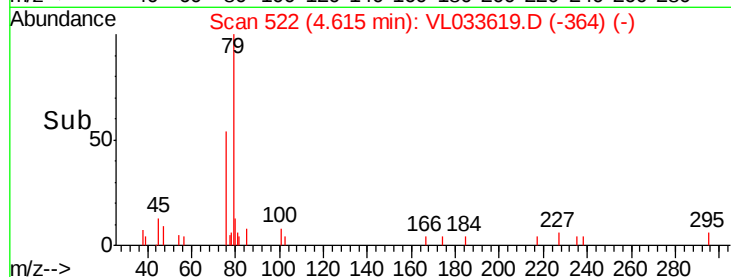
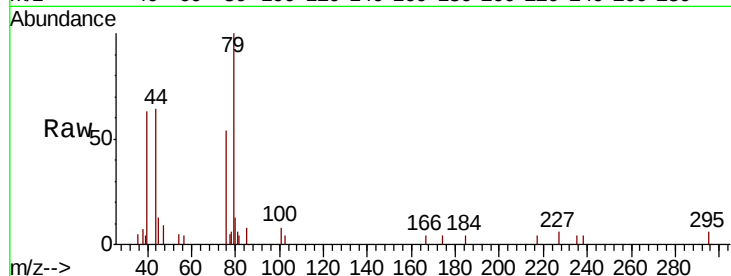
Tgt Ion: 76 Resp: 2462

Ion Ratio Lower Upper

76 100

44 228.4 14.3 21.5#

78 42.1 7.5 11.3#



#29

Chloroform

Concen: 0.030 ppbv

RT: 5.83 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL033619.D

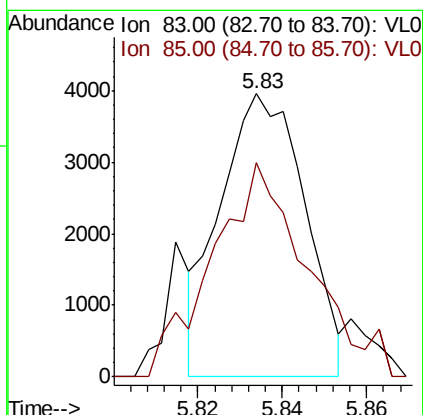
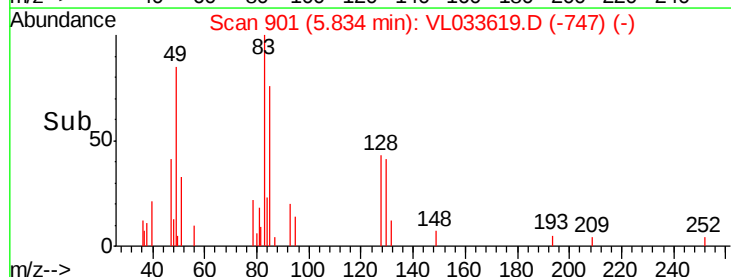
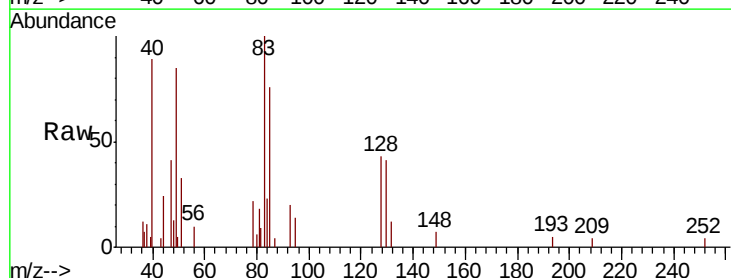
Acq: 1 May 2019 15:09

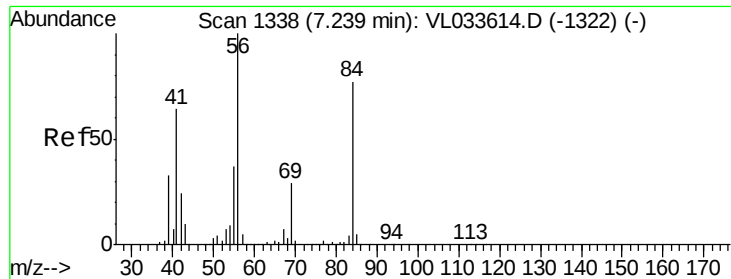
Tgt Ion: 83 Resp: 5487

Ion Ratio Lower Upper

83 100

85 69.2 49.9 74.9

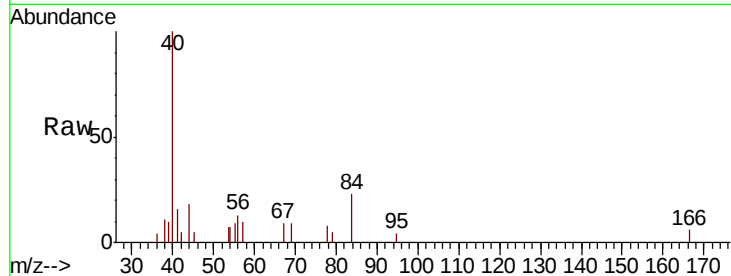




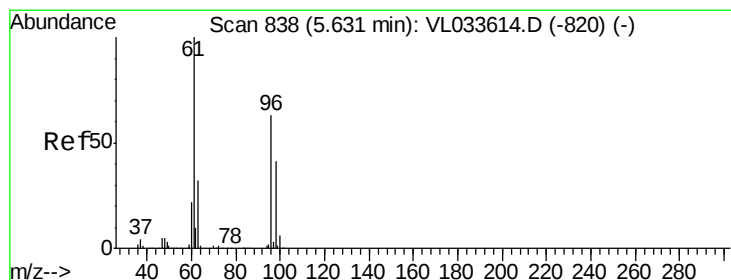
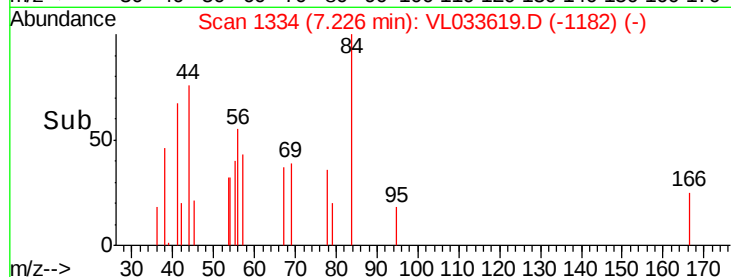
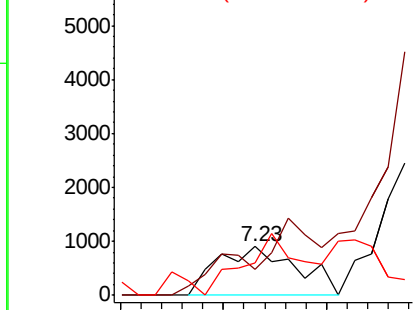
#30
Cyclohexane
Concen: 0.011 ppbv
RT: 7.23 min Scan# 1334
Delta R.T. -0.01 min
Lab File: VL033619.D
Acq: 1 May 2019 15:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 84 Resp: 952
Ion Ratio Lower Upper
84 100
56 0.0 108.4 162.6#
41 254.3 67.0 100.4#

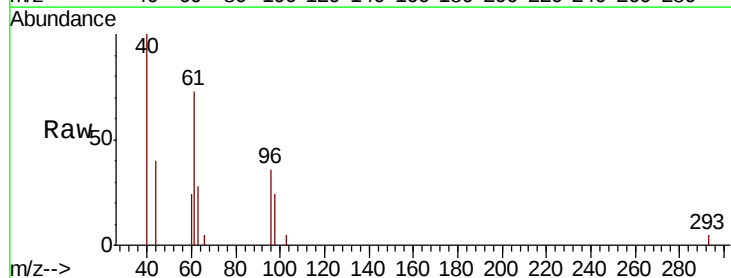


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

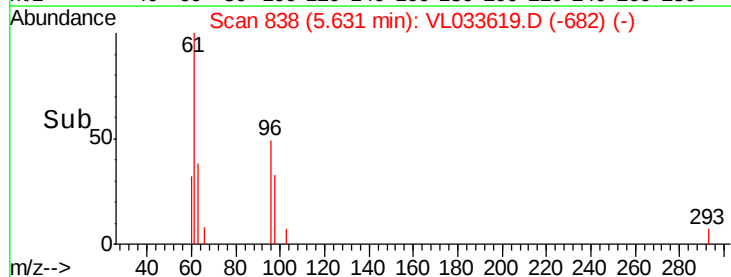
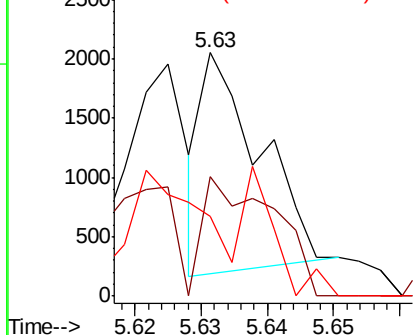


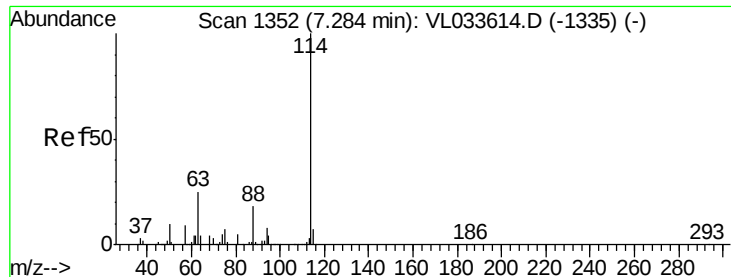
#31
cis-1,2-Dichloroethene
Concen: 0.011 ppbv
RT: 5.63 min Scan# 838
Delta R.T. 0.00 min
Lab File: VL033619.D
Acq: 1 May 2019 15:09

Tgt Ion: 61 Resp: 1134
Ion Ratio Lower Upper
61 100
96 58.3 50.6 76.0
98 39.1 32.8 49.2



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

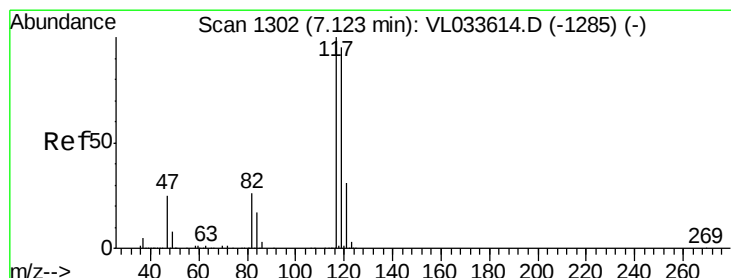
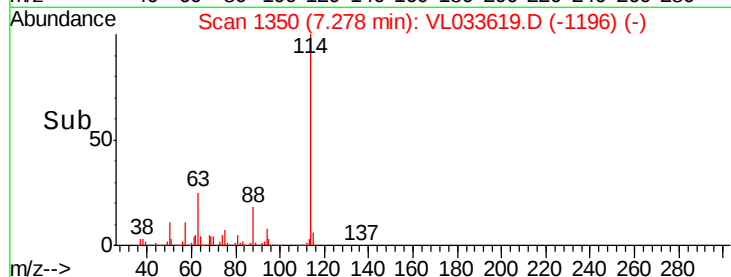
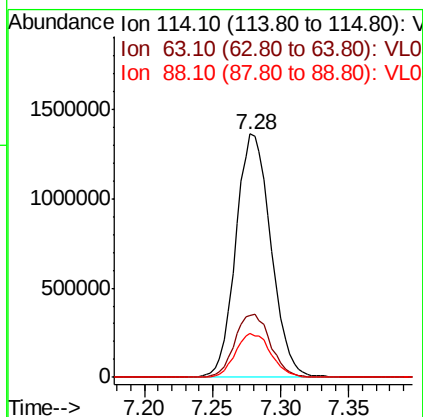
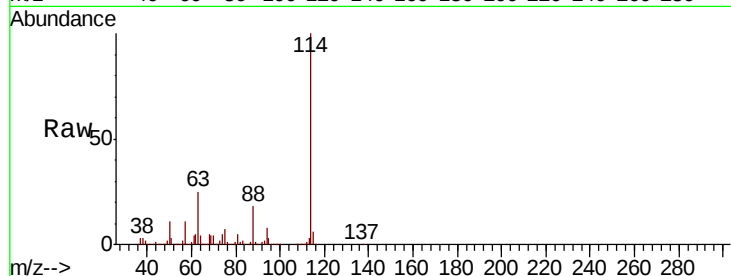




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1350
 Delta R.T. -0.01 min
 Lab File: VL033619.D
 Acq: 1 May 2019 15:09

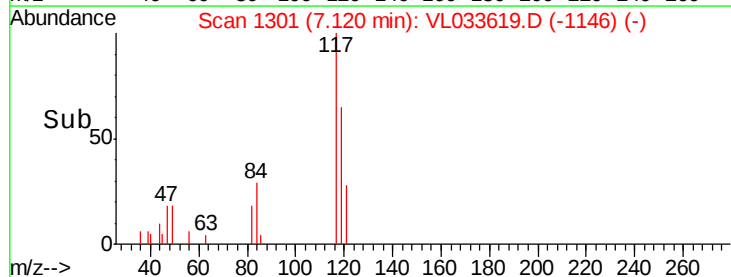
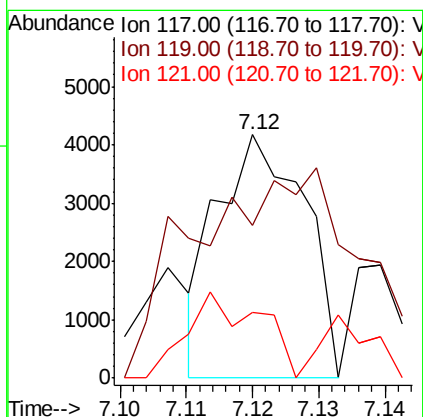
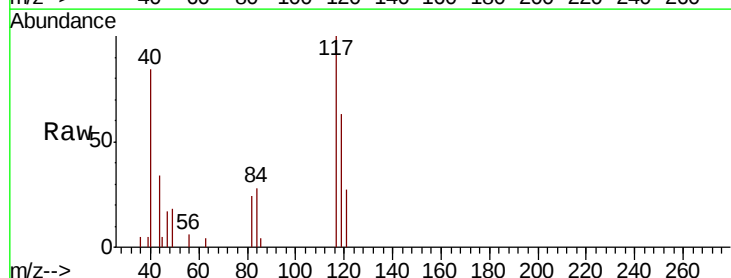
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

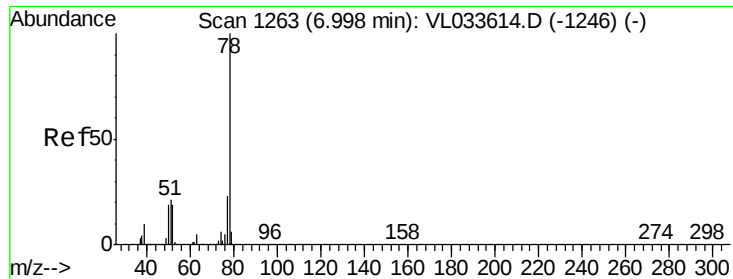
Tgt Ion:114 Resp: 2438900
 Ion Ratio Lower Upper
 114 100
 63 26.4 21.1 31.7
 88 18.2 14.2 21.4



#35
 Carbon Tetrachloride
 Concen: 0.020 ppbv
 RT: 7.12 min Scan# 1301
 Delta R.T. -0.00 min
 Lab File: VL033619.D
 Acq: 1 May 2019 15:09

Tgt Ion:117 Resp: 3825
 Ion Ratio Lower Upper
 117 100
 119 8.0 76.2 114.4#
 121 9.2 24.9 37.3#

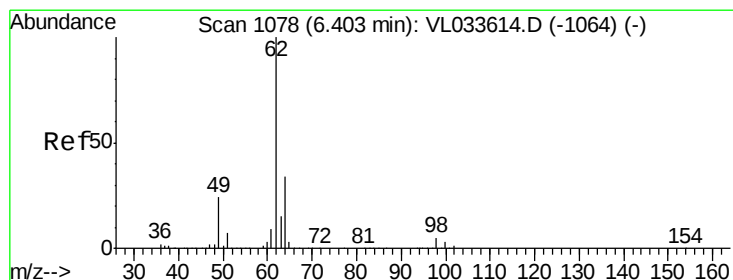
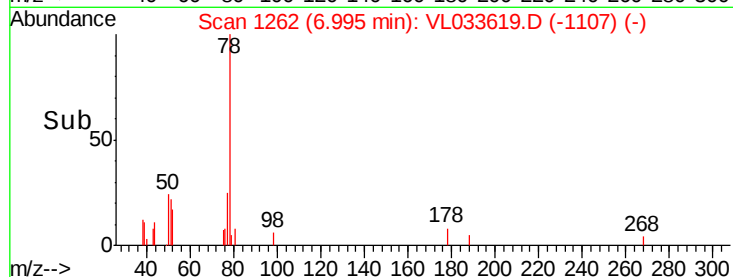
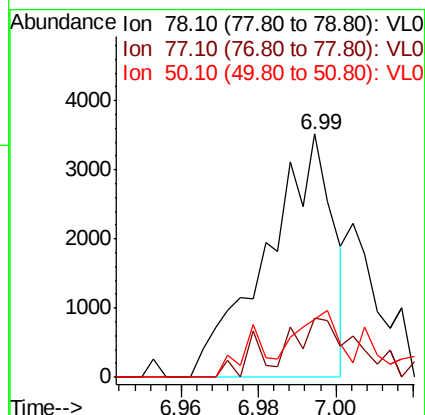
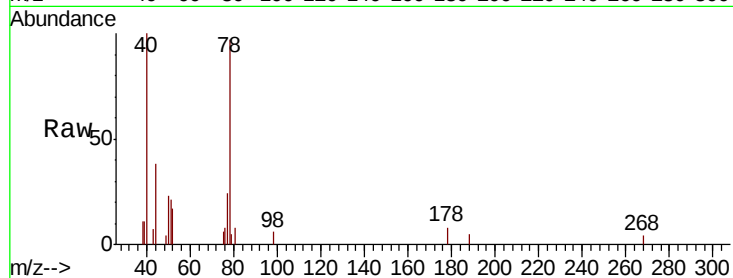




#36
Benzene
Concen: 0.020 ppbv
RT: 6.99 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VL033619.D
Acq: 1 May 2019 15:09

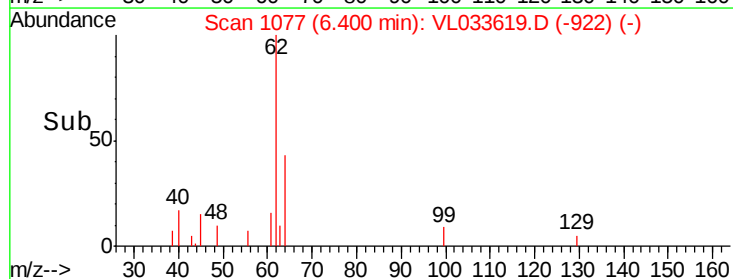
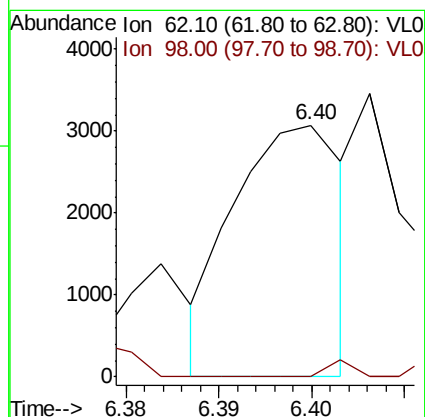
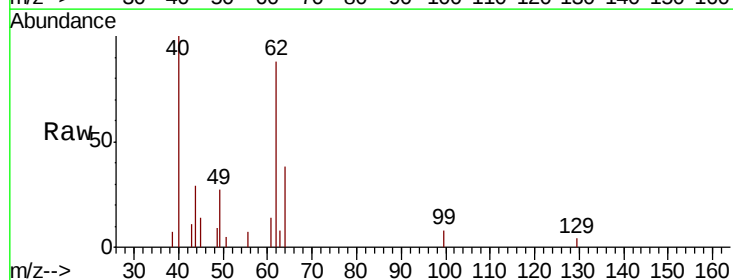
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

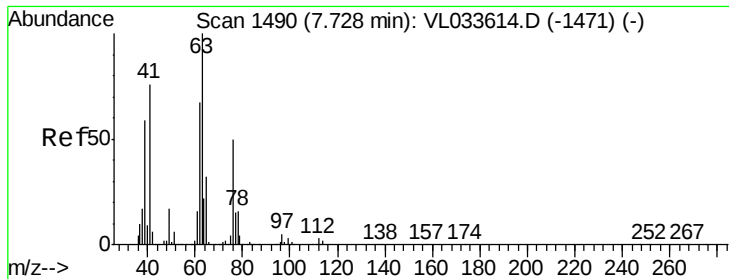
Tgt Ion: 78 Resp: 4190
Ion Ratio Lower Upper
78 100
77 24.5 18.1 27.1
50 23.9 15.1 22.7#



#37
1,2-Dichloroethane
Concen: 0.018 ppbv
RT: 6.40 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VL033619.D
Acq: 1 May 2019 15:09

Tgt Ion: 62 Resp: 2506
Ion Ratio Lower Upper
62 100
98 0.0 4.4 6.6#





#39

1,2-Dichloropropane

Concen: 8.185 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.45 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

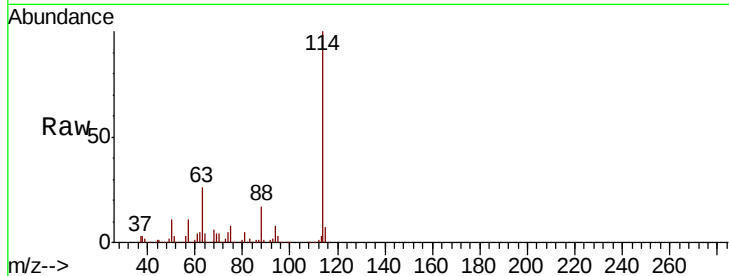
Tgt Ion: 63 Resp: 641451

Ion Ratio Lower Upper

63 100

41 0.0 60.9 91.3#

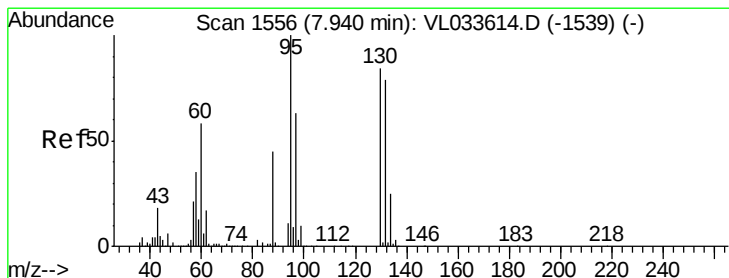
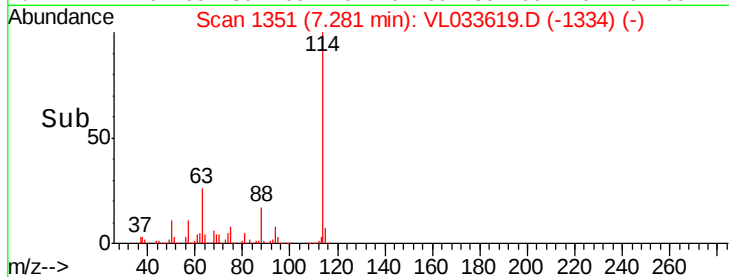
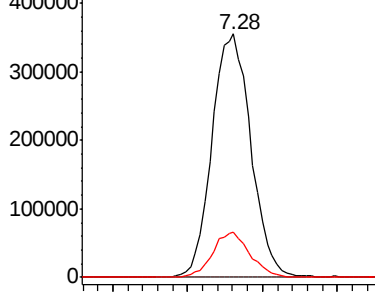
62 18.4 53.3 79.9#



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



#40

1,4-Dioxane

Concen: 0.013 ppbv

RT: 8.00 min Scan# 1576

Delta R.T. 0.06 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Tgt Ion: 88 Resp: 414

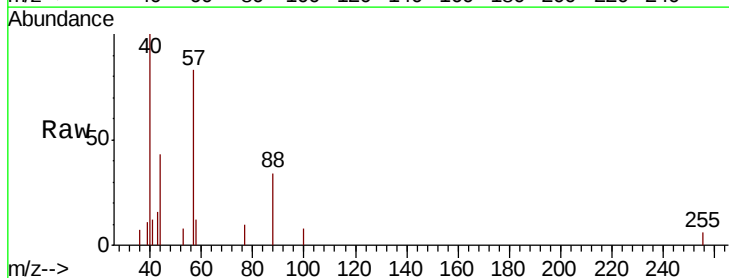
Ion Ratio Lower Upper

88 100

58 0.0 98.4 147.6#

43 0.0 190.7 286.1#

57 2004.3 844.5 1266.7#

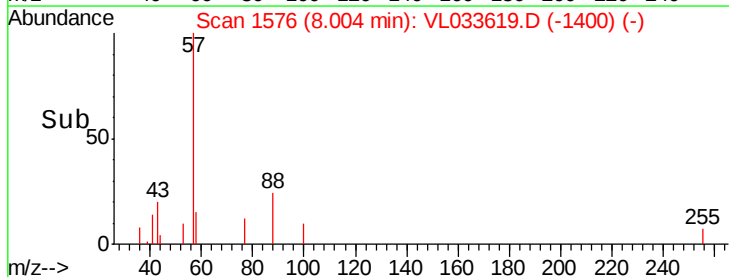
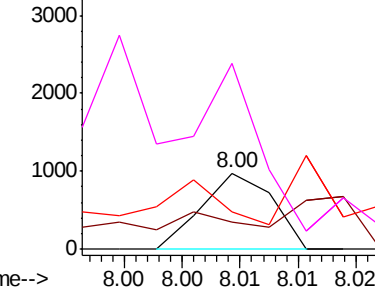


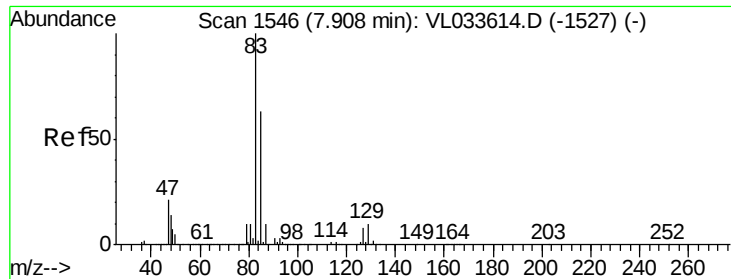
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#42

Bromodichloromethane

Concen: 0.021 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. 0.00 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

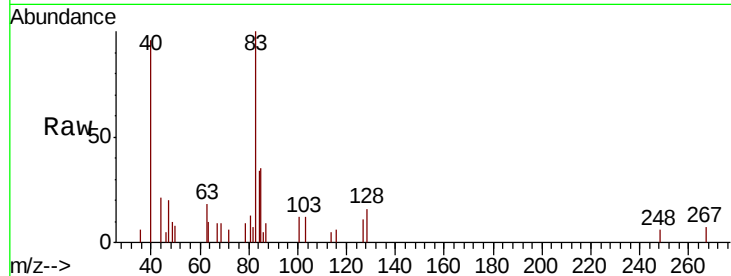
Tgt Ion: 83 Resp: 4017

Ion Ratio Lower Upper

83 100

85 13.2 50.2 75.4#

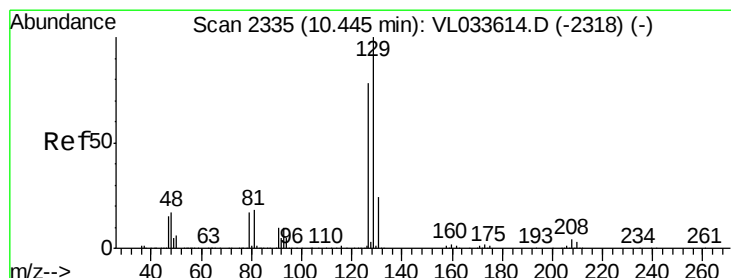
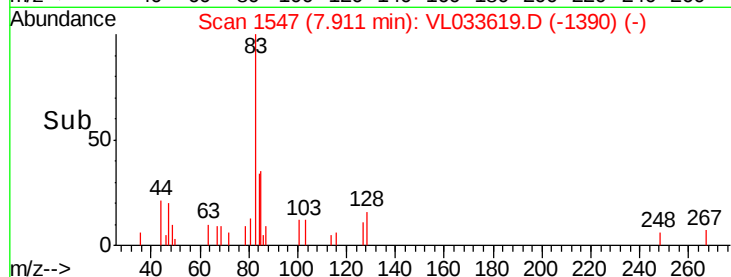
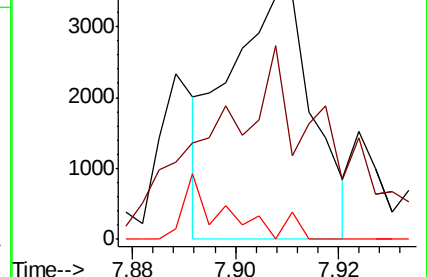
127 15.0 6.5 9.7#



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



#48

Dibromochloromethane

Concen: 0.017 ppbv

RT: 10.44 min Scan# 2332

Delta R.T. -0.01 min

Lab File: VL033619.D

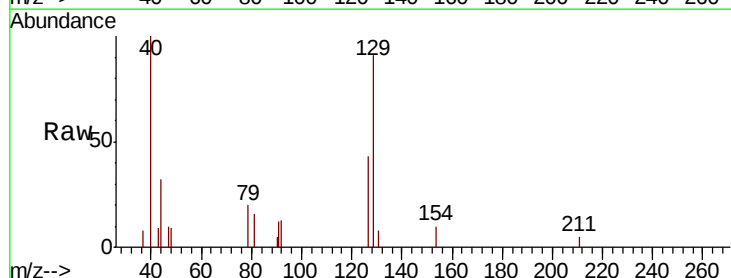
Acq: 1 May 2019 15:09

Tgt Ion: 129 Resp: 2918

Ion Ratio Lower Upper

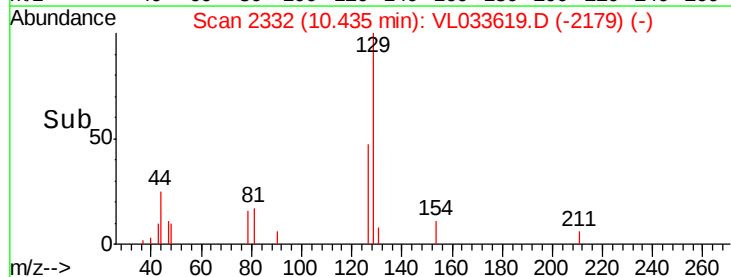
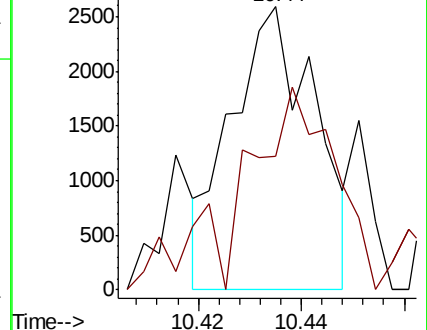
129 100

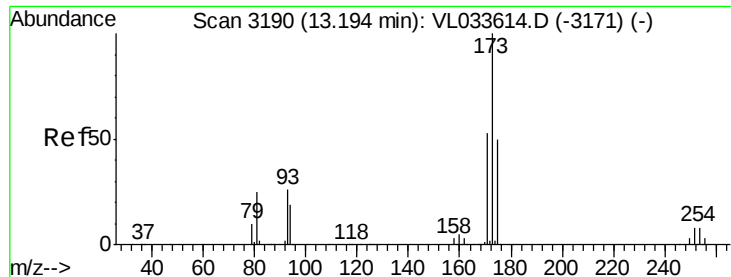
127 89.2 39.2 117.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.011 ppbv

RT: 13.19 min Scan# 3188

Delta R.T. -0.01 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

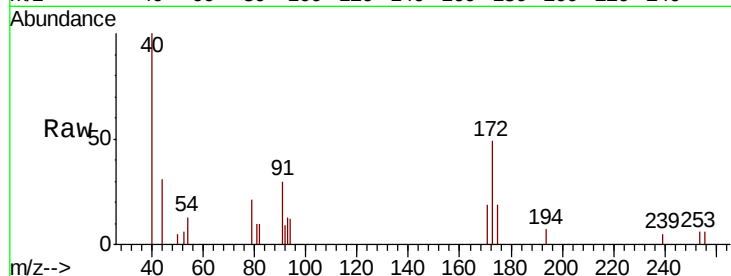
Tgt Ion:173 Resp: 1472

Ion Ratio Lower Upper

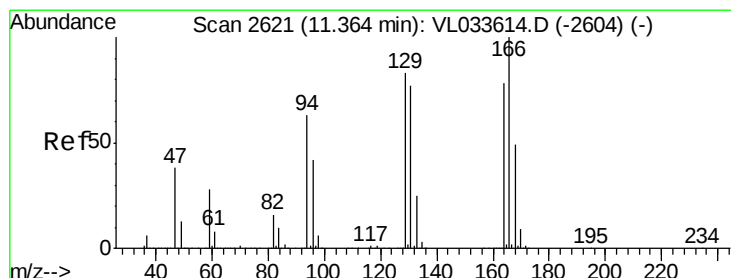
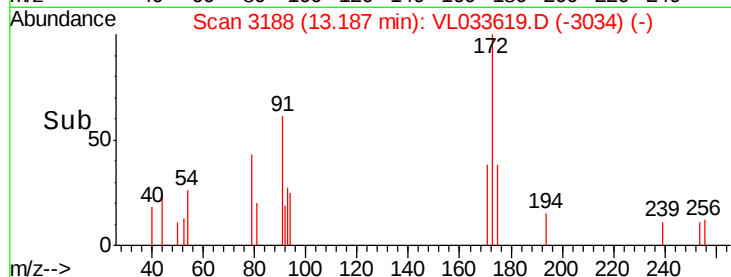
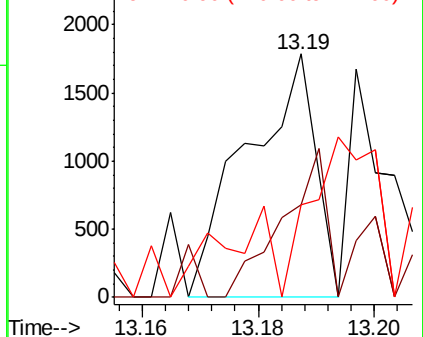
173 100

175 0.0 39.0 58.6#

171 0.0 41.6 62.4#



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#52

Tetrachloroethene

Concen: 0.010 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. -0.00 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Tgt Ion:164 Resp: 808

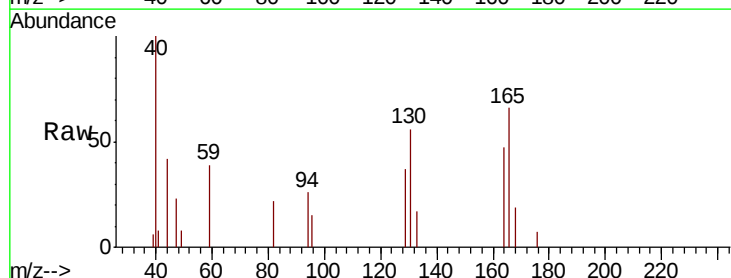
Ion Ratio Lower Upper

164 100

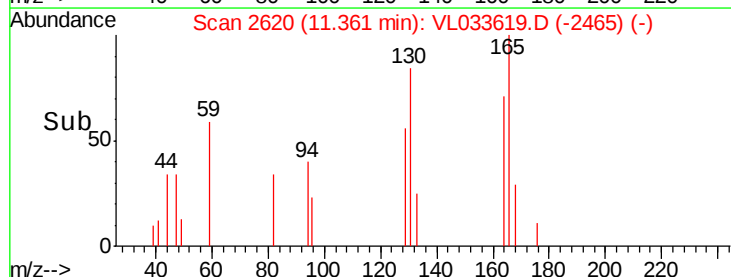
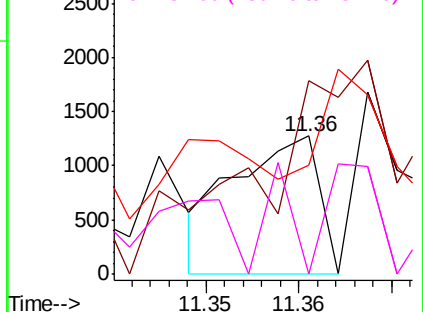
166 94.0 102.2 153.4#

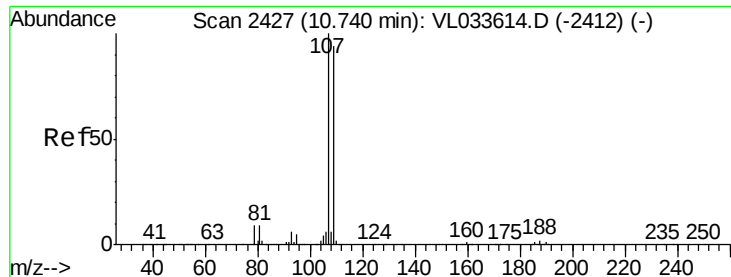
129 0.0 84.4 126.6#

131 0.0 79.2 118.8#



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





#54

1,2-Dibromoethane

Concen: 0.027 ppbv

RT: 10.74 min Scan# 2427

Delta R.T. 0.00 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampleId :

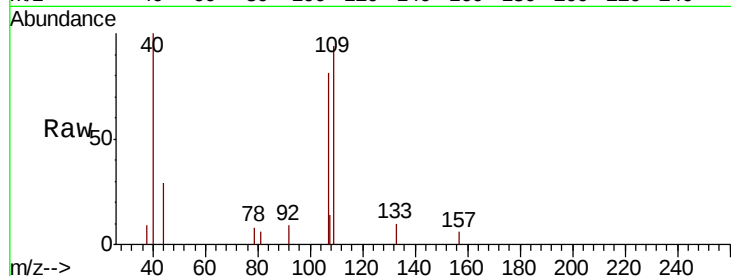
VSTDIC0.03

Tgt Ion:107 Resp: 3773

Ion Ratio Lower Upper

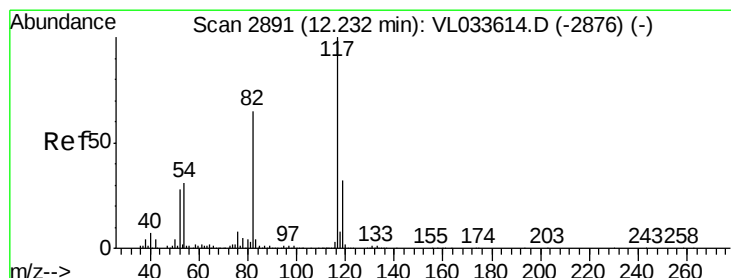
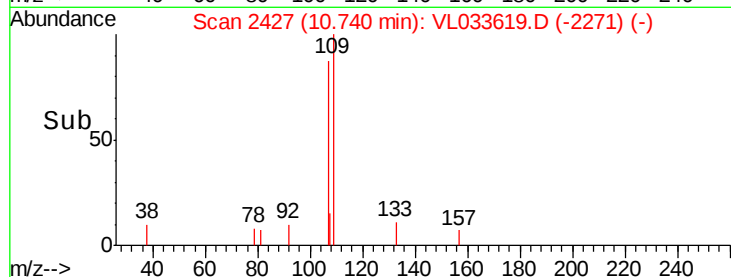
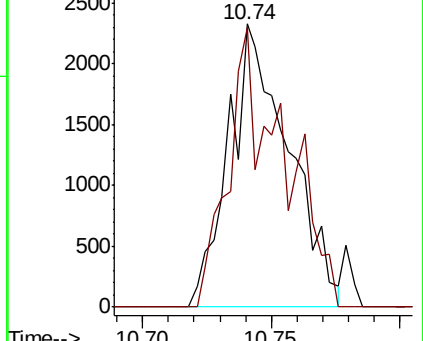
107 100

109 98.9 75.1 112.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

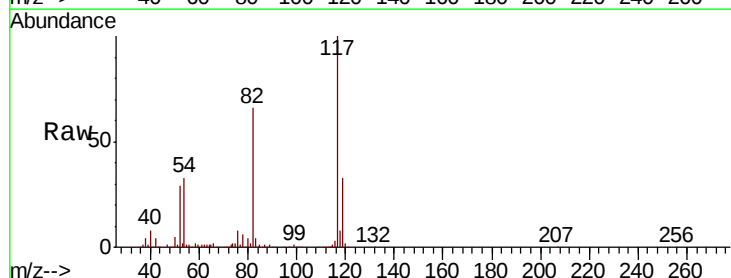
Tgt Ion:117 Resp: 2494113

Ion Ratio Lower Upper

117 100

82 68.1 52.6 78.8

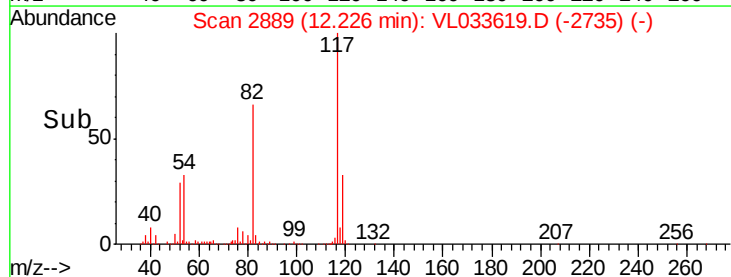
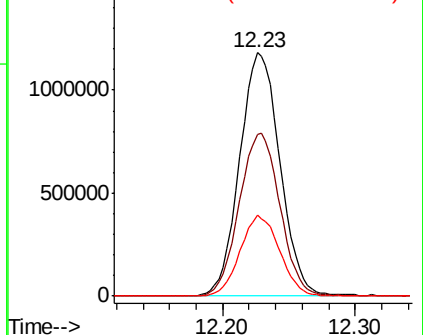
119 32.9 28.3 42.5

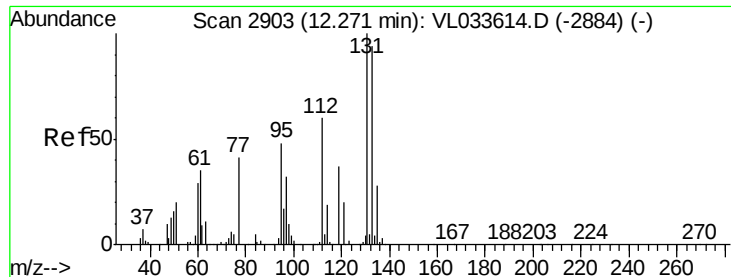


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#56

1,1,1,2-Tetrachloroethane

Concen: 0.015 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

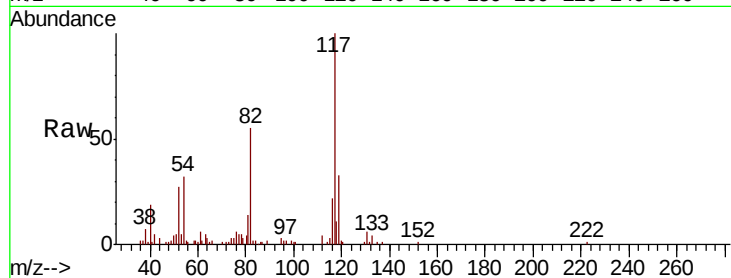
Tgt Ion:131 Resp: 1597

Ion Ratio Lower Upper

131 100

133 240.6 76.4 114.6#

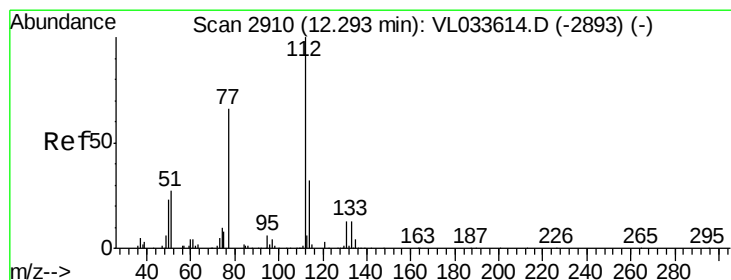
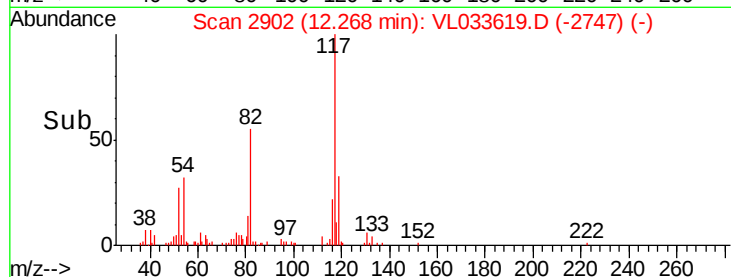
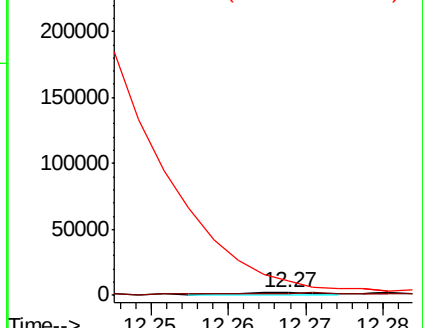
119 0.0 40.9 61.3#



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: 0.039 ppbv

RT: 12.29 min Scan# 2908

Delta R.T. -0.01 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

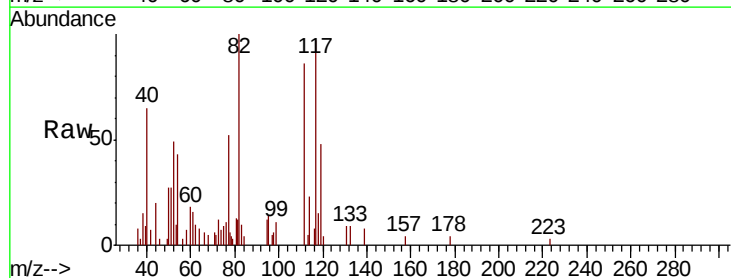
Tgt Ion:112 Resp: 7533

Ion Ratio Lower Upper

112 100

77 59.1 53.6 80.4

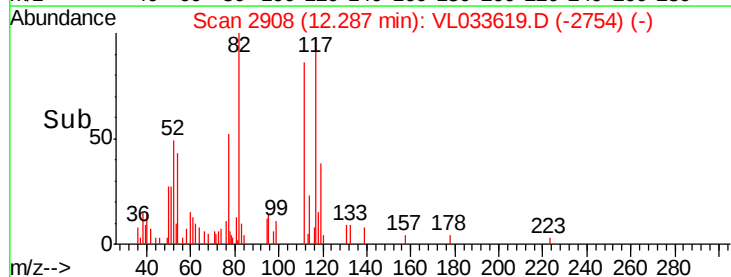
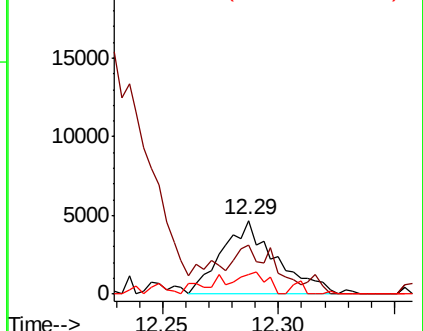
114 27.3 29.1 35.5#

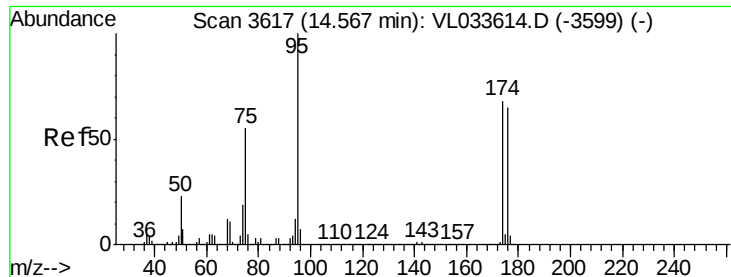


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): V

Ion 114.10 (113.80 to 114.80): V

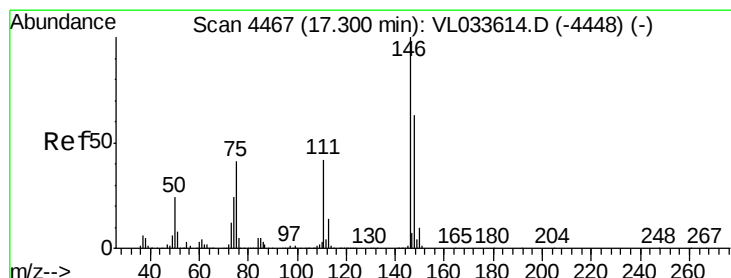
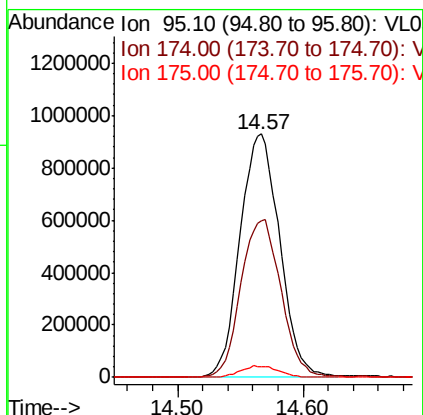
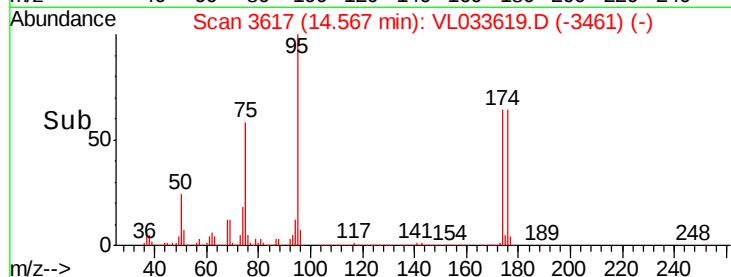
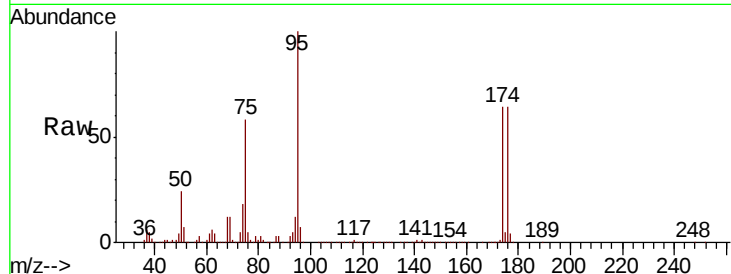




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.687 ppbv
 RT: 14.57 min Scan# 3617
 Delta R.T. 0.00 min
 Lab File: VL033619.D
 Acq: 1 May 2019 15:09

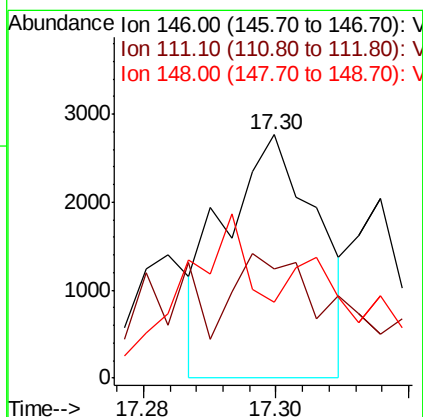
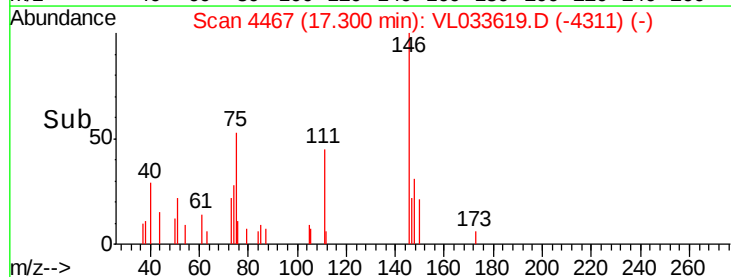
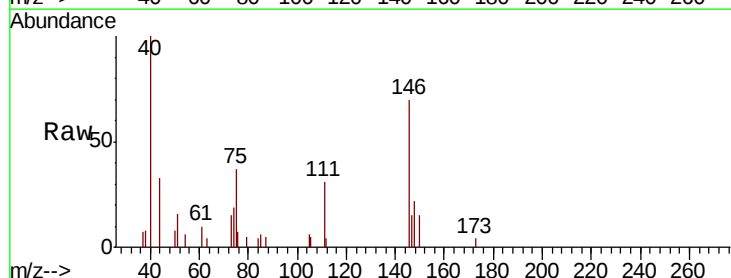
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

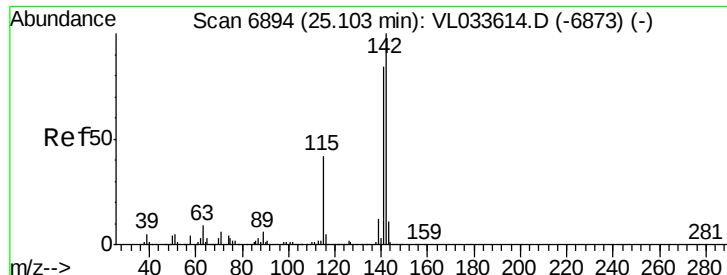
Tgt Ion: 95 Resp: 2044104
 Ion Ratio Lower Upper
 95 100
 174 66.3 53.9 80.9
 175 4.7 4.0 6.0



#76
 1,4-Dichlorobenzene
 Concen: 0.014 ppbv
 RT: 17.30 min Scan# 4467
 Delta R.T. 0.00 min
 Lab File: VL033619.D
 Acq: 1 May 2019 15:09

Tgt Ion: 146 Resp: 2703
 Ion Ratio Lower Upper
 146 100
 111 98.0 21.6 65.0#
 148 116.5 32.3 96.9#





#80

Naphthalene, 2-methyl-

Concen: 0.015 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. 0.02 min

Lab File: VL033619.D

Acq: 1 May 2019 15:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

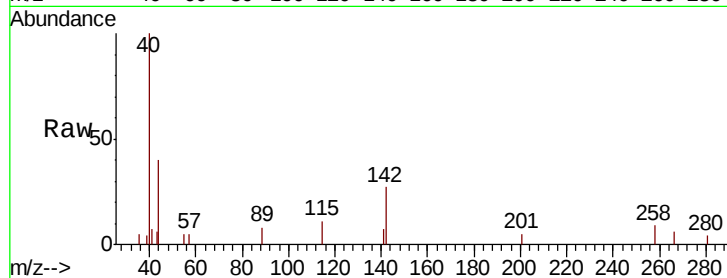
Tgt Ion:142 Resp: 1877

Ion Ratio Lower Upper

142 100

141 71.7 67.3 100.9

115 18.7 33.8 50.8#



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

