

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033933.D
 Acq On : 24 Jun 2019 12:36
 Operator : SY/AP
 Sample : OC060619 CAN 10729
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC060619 CAN 10729

Quant Time: Jun 25 03:37:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	1031756	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.26	114	2456313	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	2588998	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	2031926	9.55	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	10616	0.063 ppbv	99
3) Chlorodifluoromethane	3.00	51	13235	0.109 ppbv	98
4) Chloromethane	3.16	50	7417	0.107 ppbv	95
5) Vinyl Chloride	3.29	62	5079	0.079 ppbv	95
6) Bromomethane	3.50	94	3576	0.084 ppbv	90
7) Chloroethane	3.59	64	1271	0.050 ppbv	97
8) Dichlorotetrafluoroethane	3.21	85	15510	0.087 ppbv	98
9) Propene	3.03	41	3376	0.074 ppbv #	38
11) Trichlorofluoromethane	3.99	101	12250	0.057 ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.53	101	8032	0.055 ppbv #	13
14) Bromoethene	3.78	108	4468	0.082 ppbv #	89
15) Acetone	3.90	43	39651	0.264 ppbv	95
16) 1,3-Butadiene	3.35	39	4446	0.078 ppbv	100
18) 1,1-Dichloroethene	4.33	96	2108	0.034 ppbv #	74
20) Methylene Chloride	4.39	84	13776	0.235 ppbv	95
21) Allyl Chloride	4.45	41	2994	0.035 ppbv #	1
22) trans-1,2-Dichloroethene	4.94	96	3922	0.060 ppbv #	36
23) Vinyl Acetate	5.14	43	11009	0.063 ppbv #	85
24) 1,1-Dichloroethane	5.07	63	10916	0.080 ppbv #	97
25) Ethyl Acetate	5.76	43	31516	0.138 ppbv #	96
26) Hexane	5.75	57	28182	0.270 ppbv #	57
28) Methyl tert-Butyl Ether	5.11	73	6189	0.039 ppbv #	65
29) Chloroform	5.82	83	18737	0.105 ppbv #	76
31) cis-1,2-Dichloroethene	5.61	61	3787	0.041 ppbv #	70
32) 1,1,1-Trichloroethane	6.60	97	8284	0.048 ppbv #	22
34) 2-Butanone	5.33	43	11486	0.083 ppbv	99
35) Carbon Tetrachloride	7.11	117	16083	0.085 ppbv #	85
36) Benzene	6.98	78	6497	0.035 ppbv #	79
38) Trichloroethene	7.93	130	4189	0.057 ppbv #	64
39) 1,2-Dichloropropane	7.26	63	630109	8.701 ppbv	25
41) Tetrahydrofuran	6.16	42	2638	0.038 ppbv #	38
42) Bromodichloromethane	7.88	83	11521	0.062 ppbv #	72
45) t-1,3-Dichloropropene	9.39	75	3586	0.039 ppbv #	66
53) Toluene	9.91	91	6784	0.033 ppbv #	21
54) 1,2-Dibromoethane	10.73	107	6073	0.047 ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.25	131	4822	0.043 ppbv #	1
57) Chlorobenzene	12.27	112	10515	0.054 ppbv #	93
69) p-Isopropyltoluene	17.78	119	16166	0.041 ppbv #	84
75) 1,3-Dichlorobenzene	17.14	146	19648	0.089 ppbv	82
76) 1,4-Dichlorobenzene	17.27	146	6203	0.030 ppbv #	7
77) 1,2-Dichlorobenzene	17.95	146	11490	0.056 ppbv #	43

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration

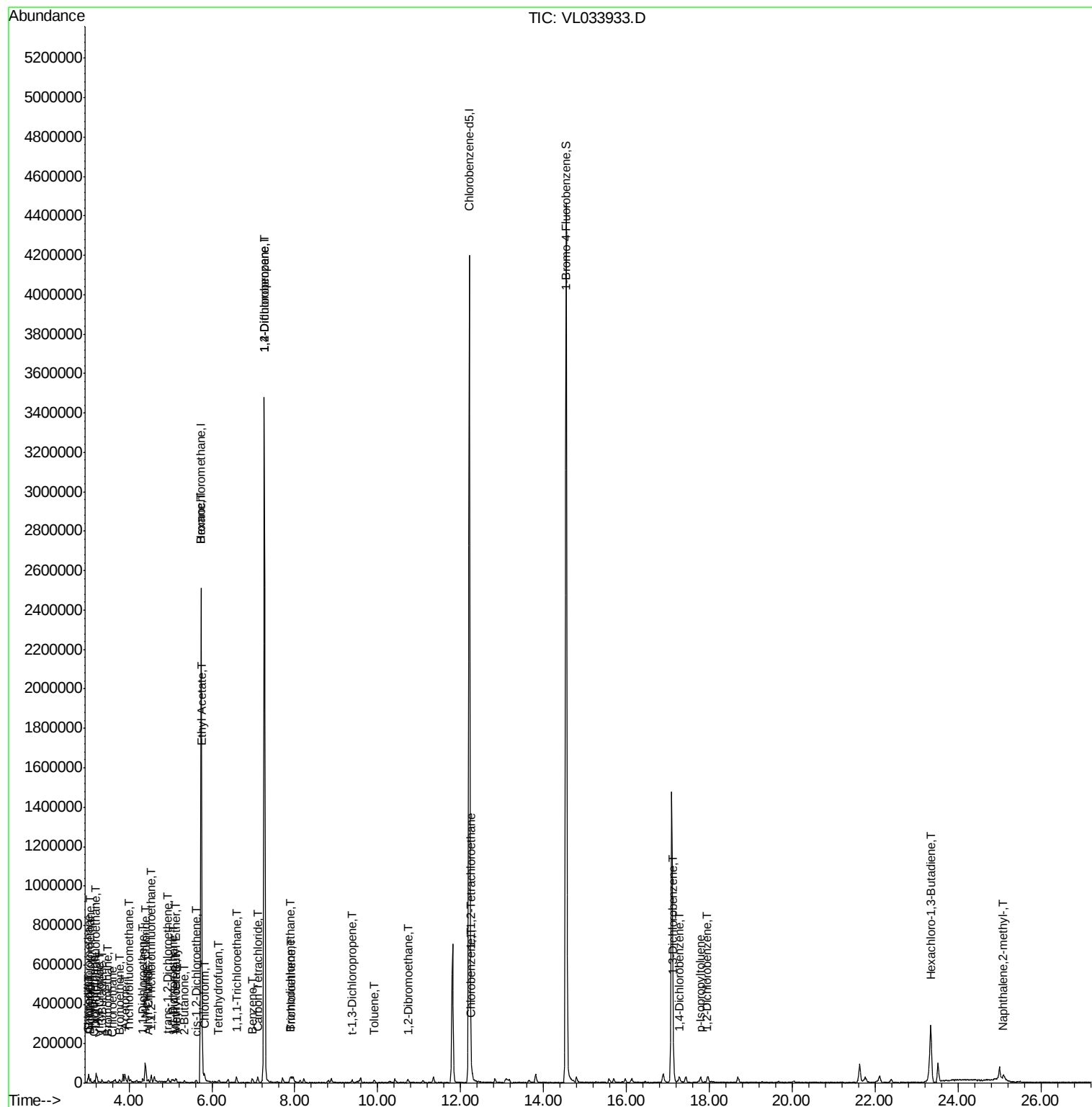
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Hexachloro-1,3-Butadiene	23.35	225	92596	0.579	ppbv	96
80) Naphthalene,2-methyl-	25.10	142	17960	0.159	ppbv	94

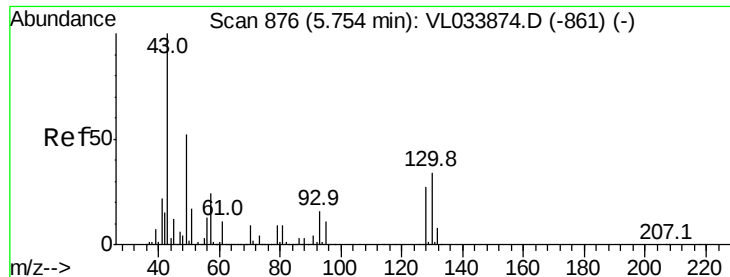
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 872

Delta R.T. -0.01 min

Lab File: VL033933.D

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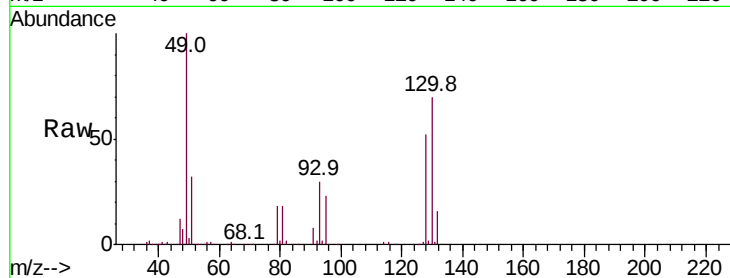
Tot Ion: 49 Resp: 1031756

Ion Ratio Lower Upper

49 100

128 51.7 25.5 76.5

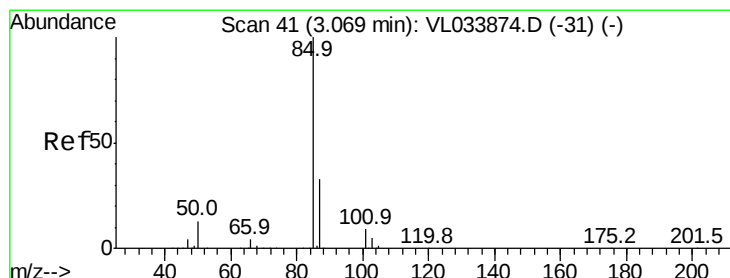
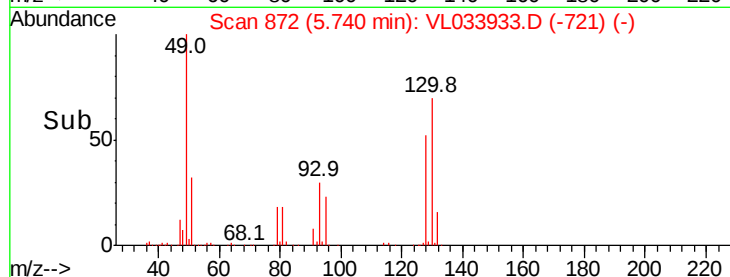
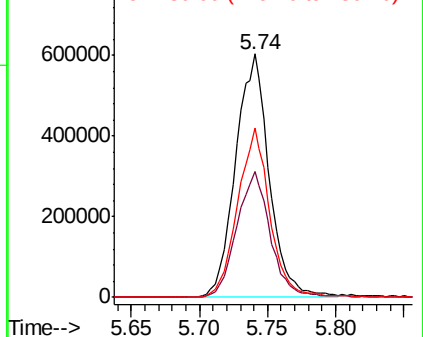
130 67.2 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.063 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL033933.D

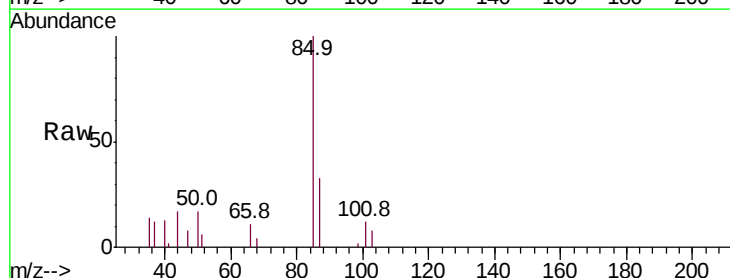
Acq: 24 Jun 2019 12:36

Tgt Ion: 85 Resp: 10616

Ion Ratio Lower Upper

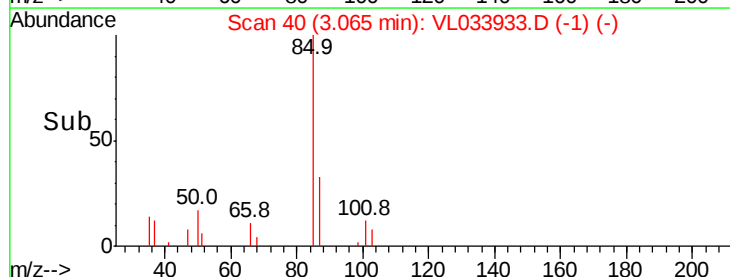
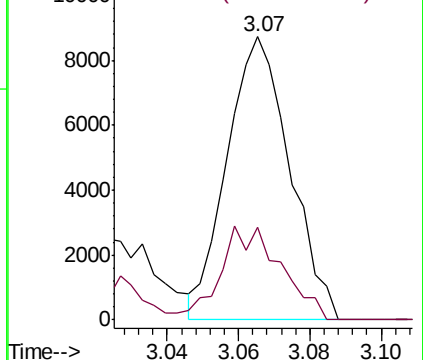
85 100

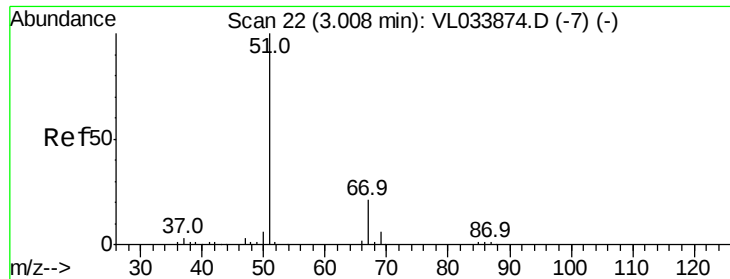
87 32.7 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

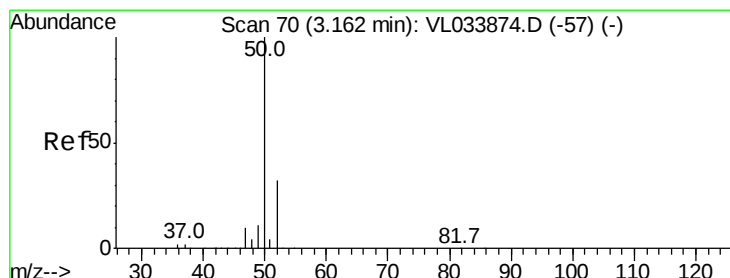
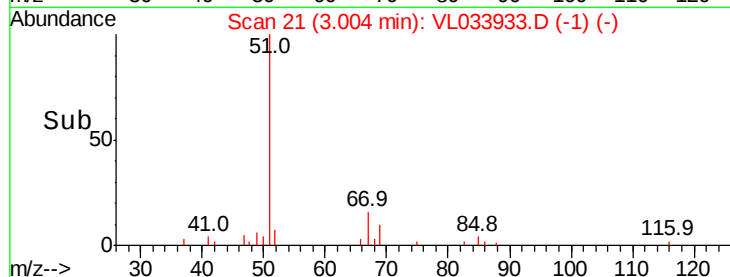
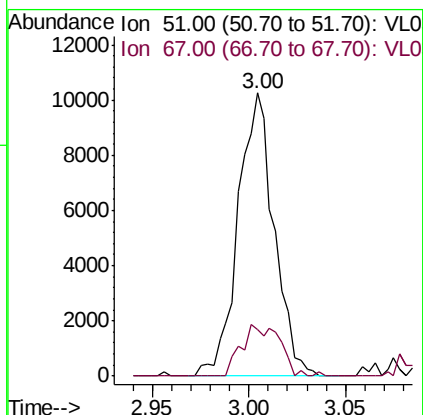
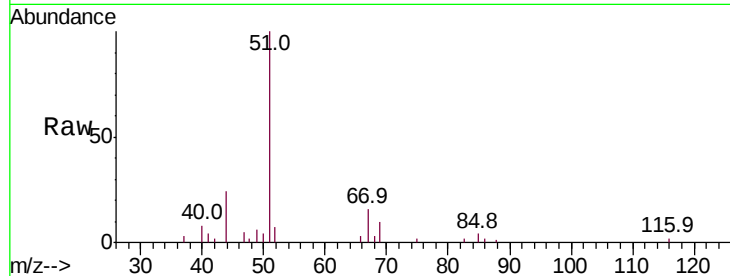




#3
 Chlorodifluoromethane
 Concen: 0.109 ppbv
 RT: 3.00 min Scan# 21
 Delta R.T. -0.00 min
 Lab File: VL033933.D
 Acq: 24 Jun 2019 12:36

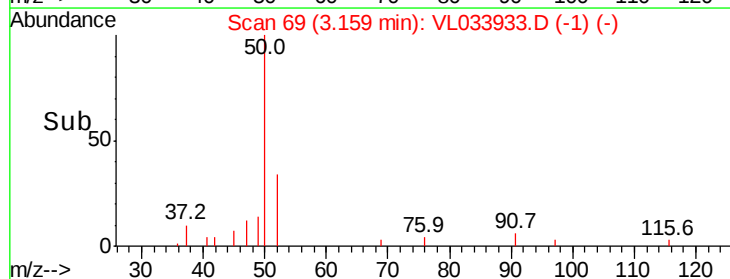
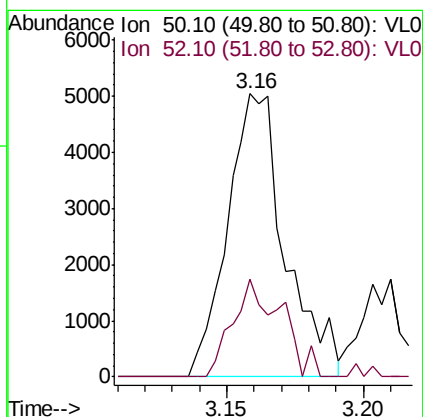
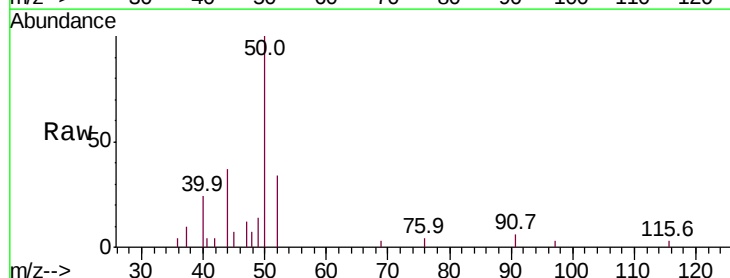
Instrument :
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 QC060619 CAN 10729

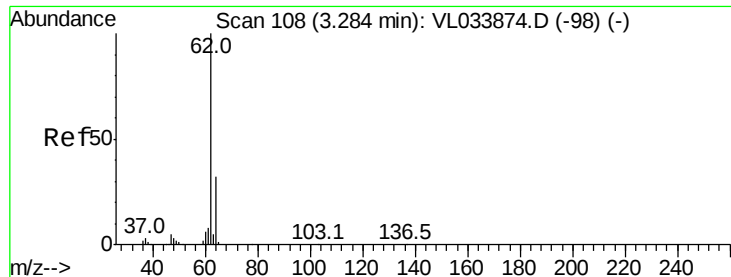
Tot Ion: 51 Resp: 13235
 Ion Ratio Lower Upper
 51 100
 67 19.5 16.4 24.6



#4
 Chloromethane
 Concen: 0.107 ppbv
 RT: 3.16 min Scan# 69
 Delta R.T. -0.00 min
 Lab File: VL033933.D
 Acq: 24 Jun 2019 12:36

Tgt Ion: 50 Resp: 7417
 Ion Ratio Lower Upper
 50 100
 52 34.5 25.4 38.0





#5

Vinyl Chloride

Concen: 0.079 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

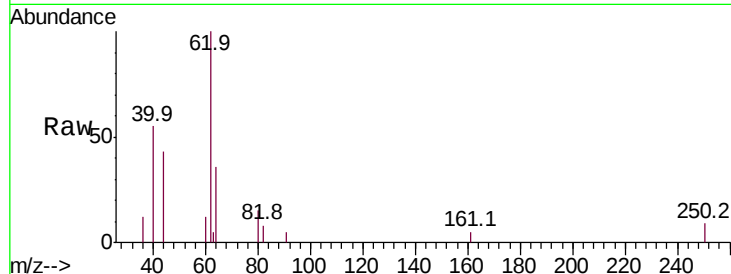
QC060619 CAN 10729

Tot Ion: 62 Resp: 5079

Ion Ratio Lower Upper

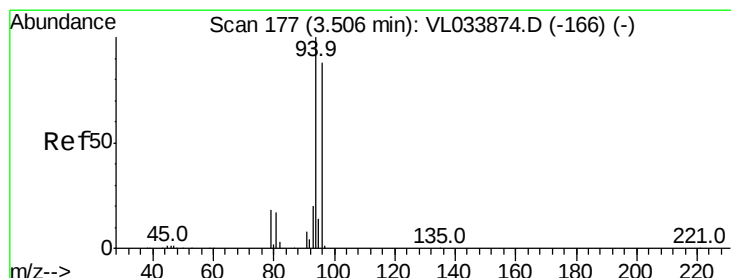
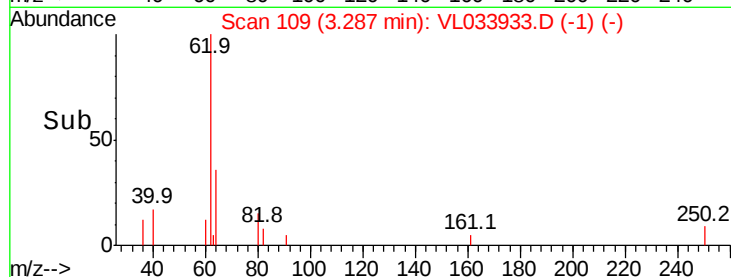
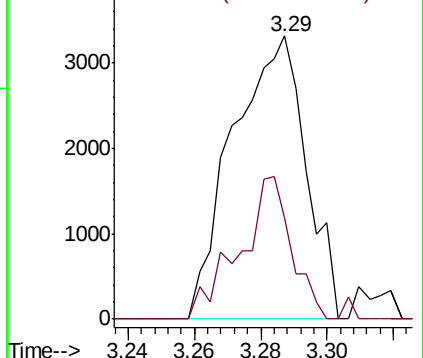
62 100

64 34.2 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.084 ppbv

RT: 3.50 min Scan# 176

Delta R.T. -0.00 min

Lab File: VL033933.D

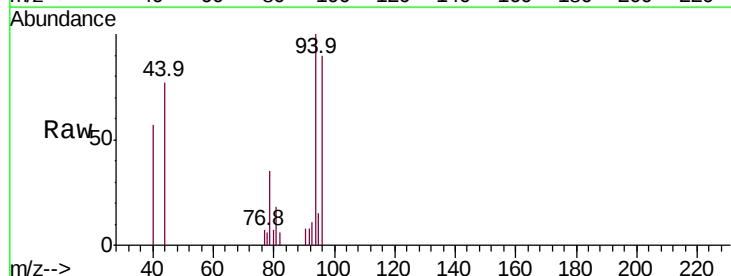
Acq: 24 Jun 2019 12:36

Tgt Ion: 94 Resp: 3576

Ion Ratio Lower Upper

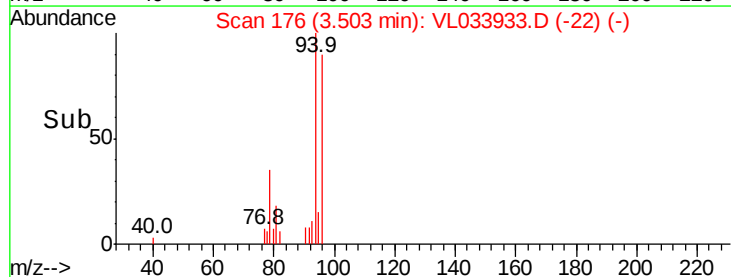
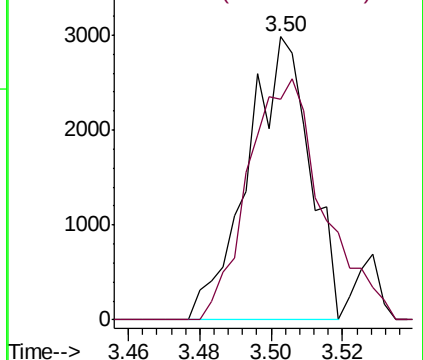
94 100

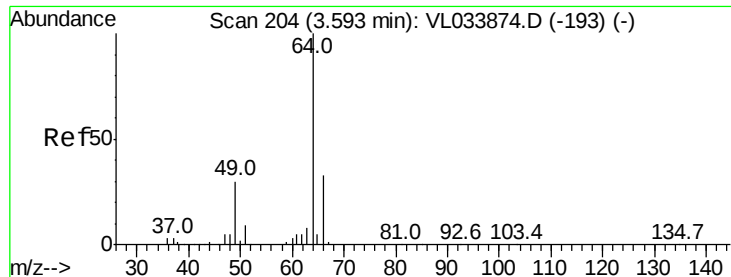
96 78.0 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.050 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

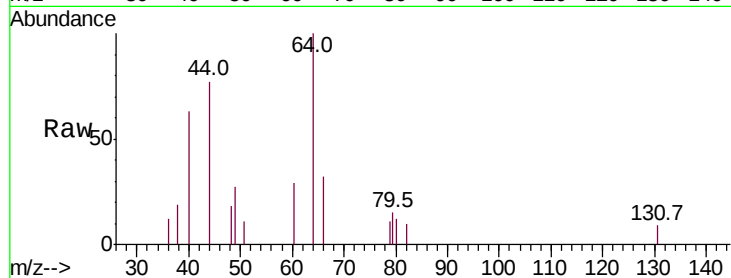
QC060619 CAN 10729

Tot Ion: 64 Resp: 1271

Ion Ratio Lower Upper

64 100

66 31.6 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.59

2000

1500

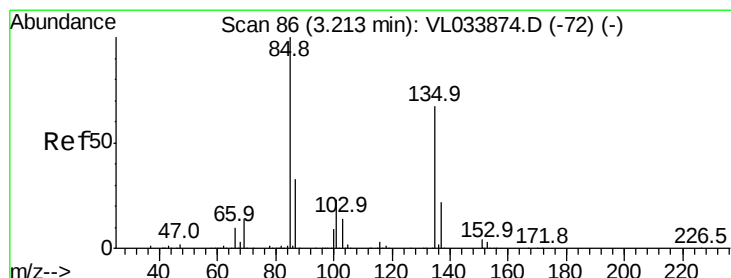
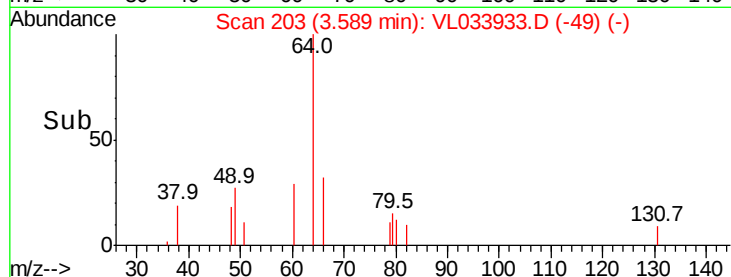
1000

500

0

3.58 3.59 3.60 3.61

Time-->



#8

Dichlorotetrafluoroethane

Concen: 0.087 ppbv

RT: 3.21 min Scan# 84

Delta R.T. -0.01 min

Lab File: VL033933.D

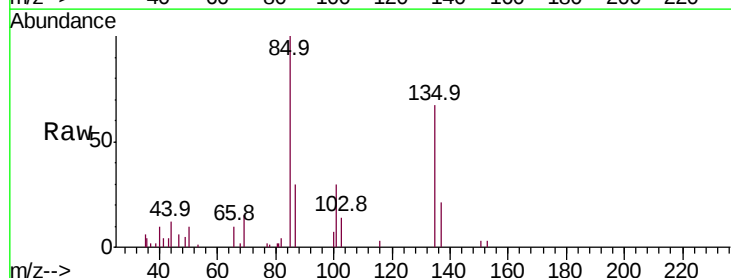
Acq: 24 Jun 2019 12:36

Tgt Ion: 85 Resp: 15510

Ion Ratio Lower Upper

85 100

135 68.8 53.7 80.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.21

15000

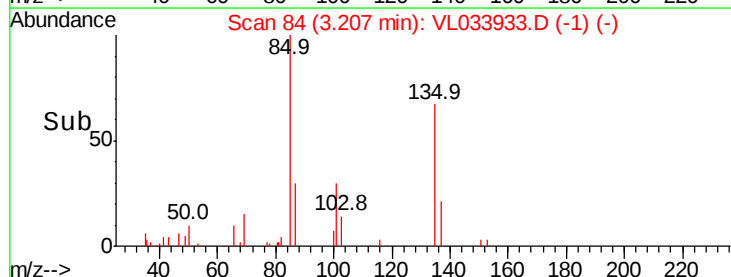
10000

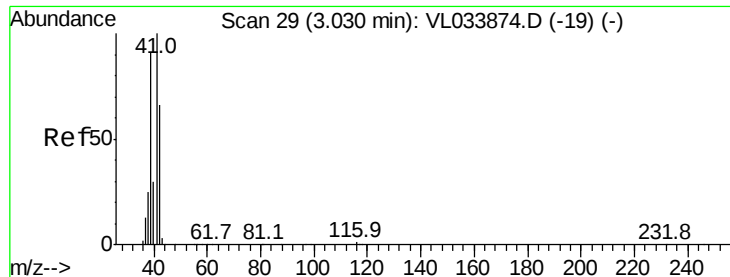
5000

0

3.16 3.18 3.20 3.22 3.24

Time-->





#9

Propene

Concen: 0.074 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

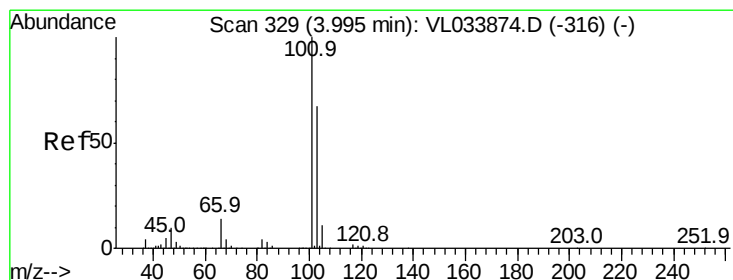
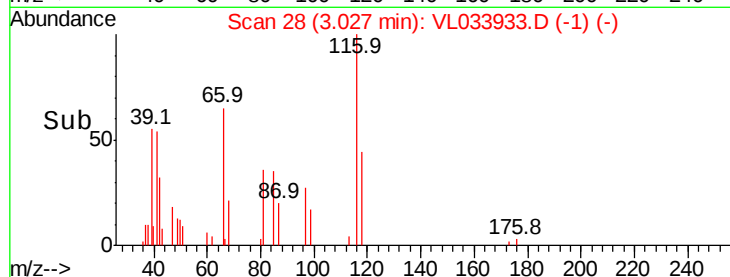
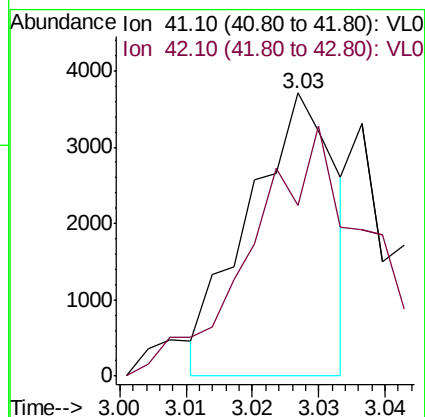
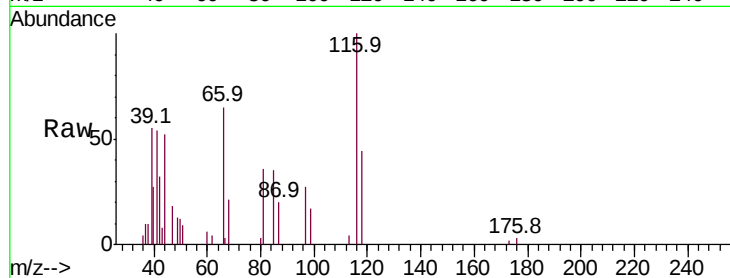
QC060619 CAN 10729

Tot Ion: 41 Resp: 3376

Ion Ratio Lower Upper

41 100

42 121.7 56.3 84.5#



#11

Trichlorofluoromethane

Concen: 0.057 ppbv

RT: 3.99 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL033933.D

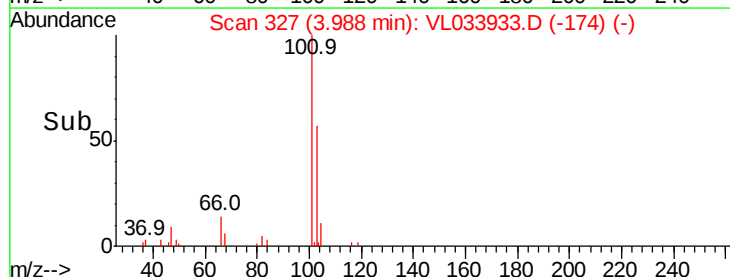
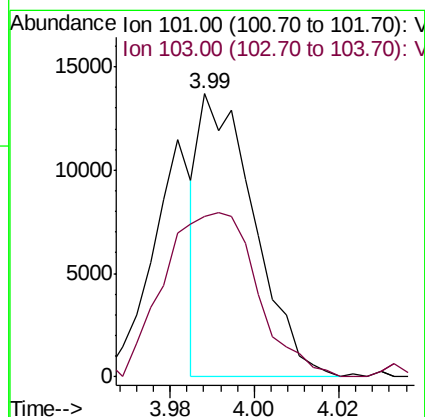
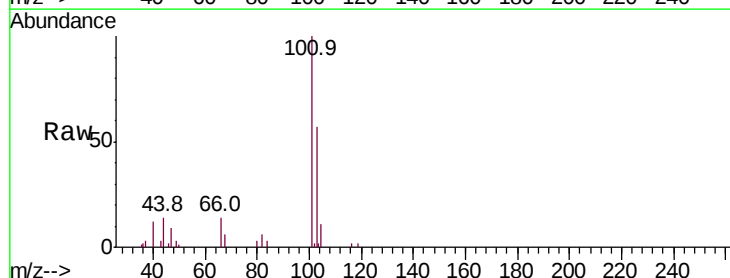
Acq: 24 Jun 2019 12:36

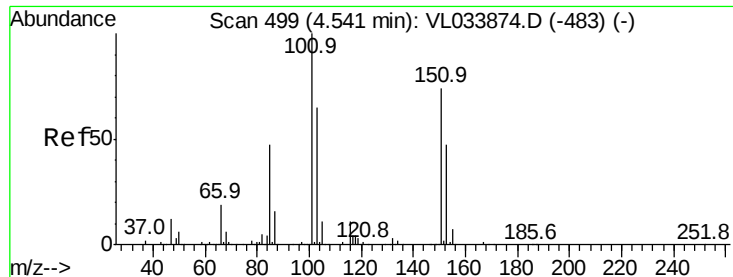
Tgt Ion: 101 Resp: 12250

Ion Ratio Lower Upper

101 100

103 58.8 53.6 80.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.055 ppbv

RT: 4.53 min Scan# 497

Delta R.T. -0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

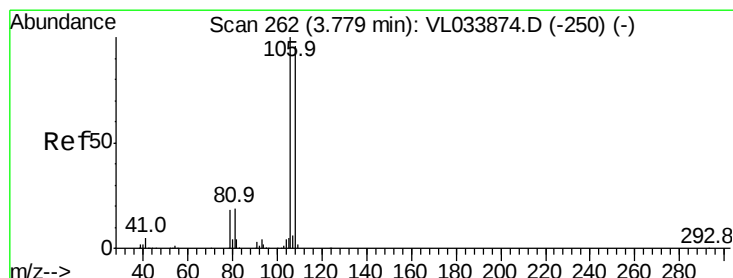
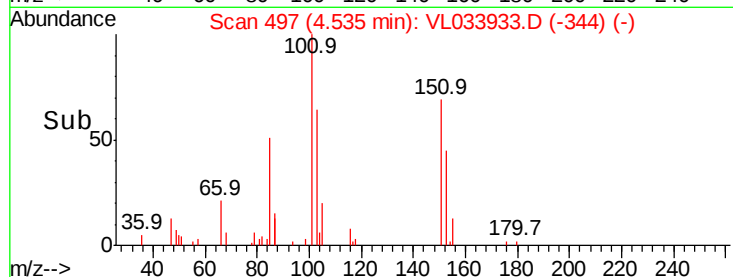
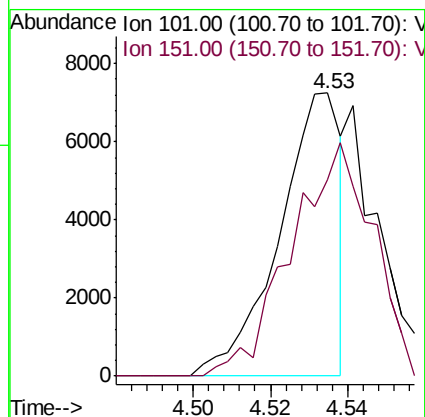
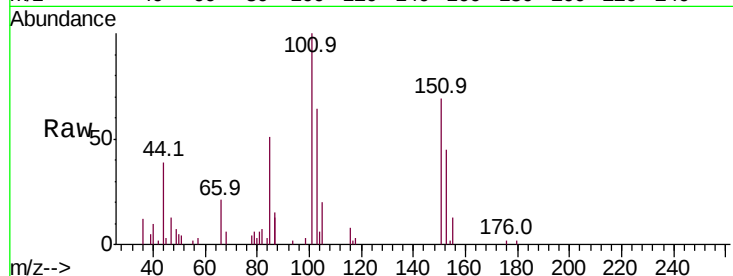
QC060619 CAN 10729

Tot Ion:101 Resp: 8032

Ion Ratio Lower Upper

101 100

151 0.0 58.6 87.8#



#14

Bromoethene

Concen: 0.082 ppbv

RT: 3.78 min Scan# 261

Delta R.T. -0.00 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

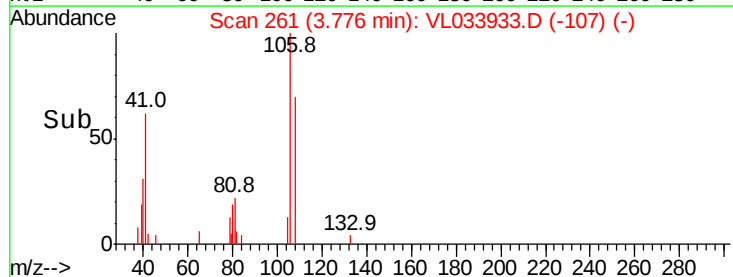
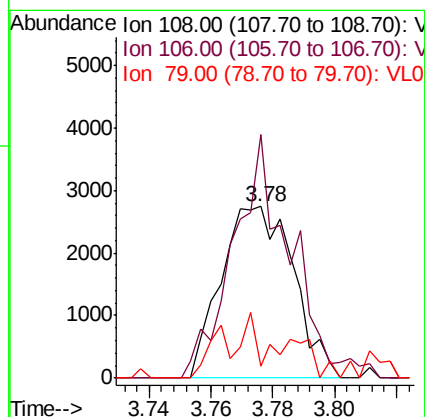
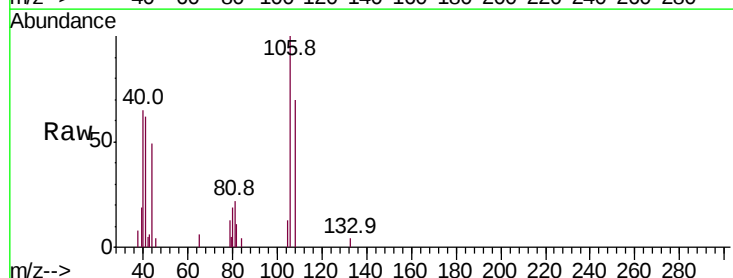
Tgt Ion:108 Resp: 4468

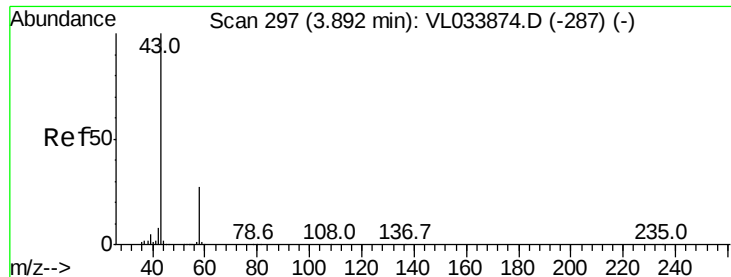
Ion Ratio Lower Upper

108 100

106 112.4 84.9 127.3

79 36.8 15.4 23.0#





#15

Acetone

Concen: 0.264 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

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ClientSampleId :

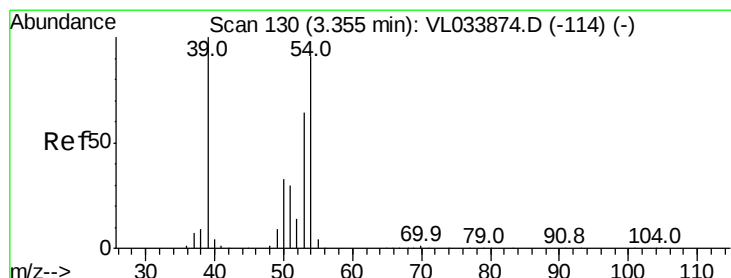
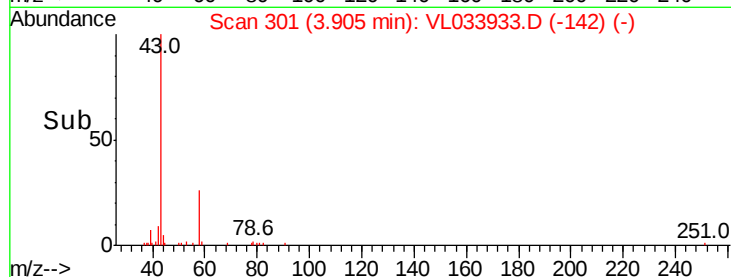
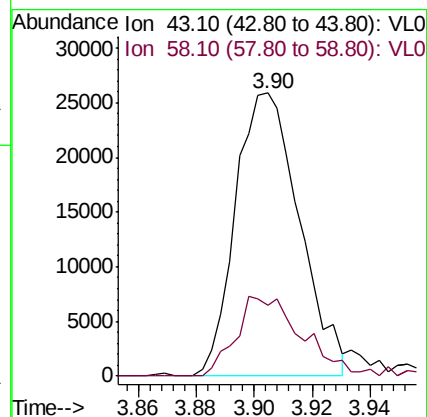
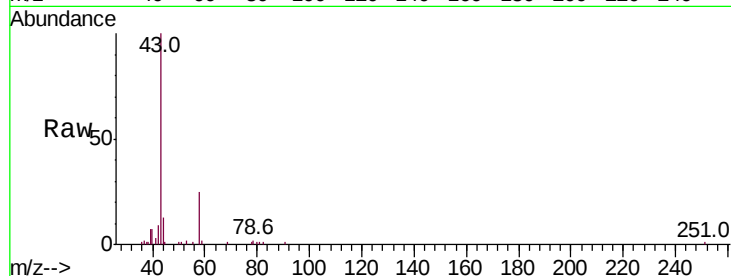
QC060619 CAN 10729

Tot Ion: 43 Resp: 39651

Ion Ratio Lower Upper

43 100

58 29.2 21.3 31.9



#16

1,3-Butadiene

Concen: 0.078 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.00 min

Lab File: VL033933.D

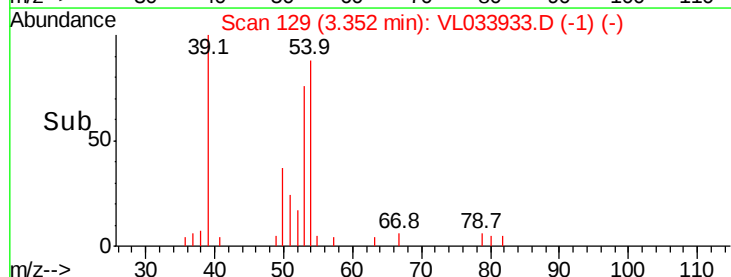
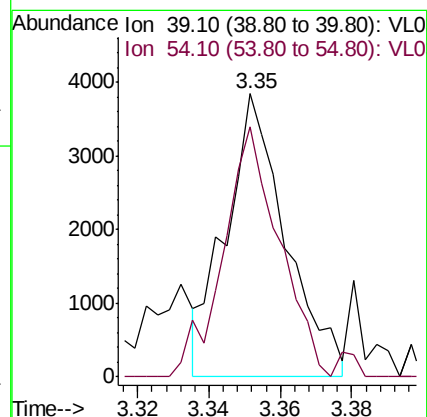
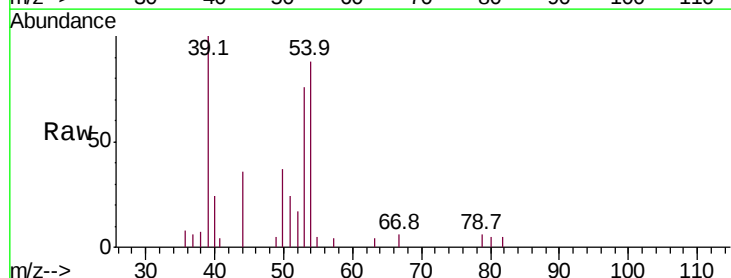
Acq: 24 Jun 2019 12:36

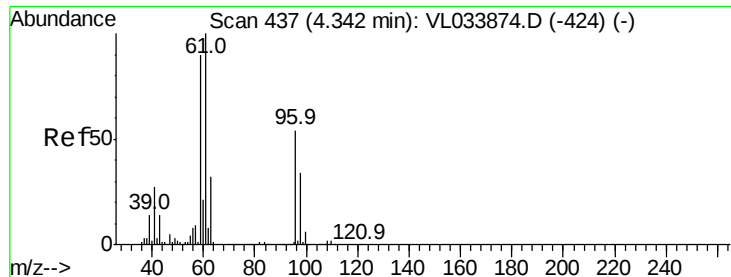
Tgt Ion: 39 Resp: 4446

Ion Ratio Lower Upper

39 100

54 85.6 68.6 103.0





#18

1,1-Dichloroethene

Concen: 0.034 ppbv

RT: 4.33 min Scan# 433

Delta R.T. -0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

QC060619 CAN 10729

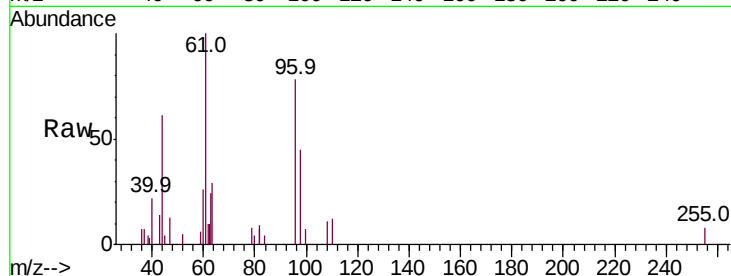
Tot Ion: 96 Resp: 2108

Ion Ratio Lower Upper

96 100

61 136.1 147.0 220.6#

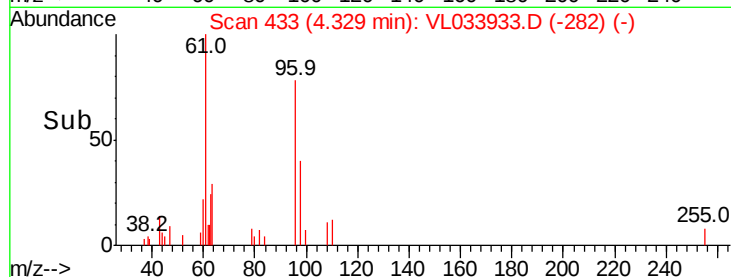
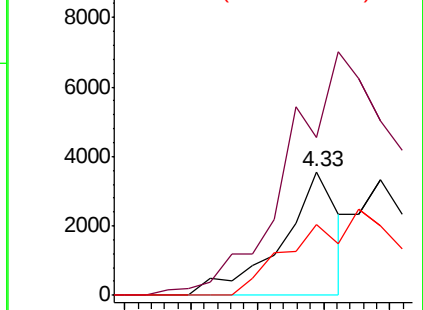
98 57.2 49.4 74.0



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: 0.235 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Tgt Ion: 84 Resp: 13776

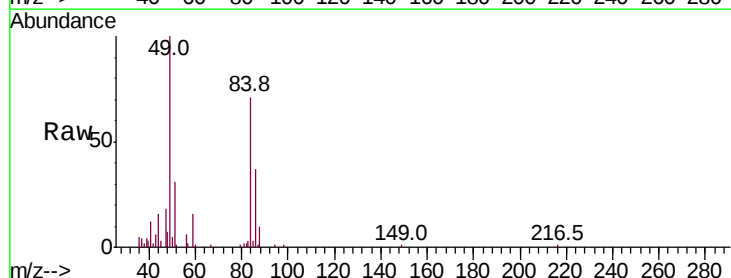
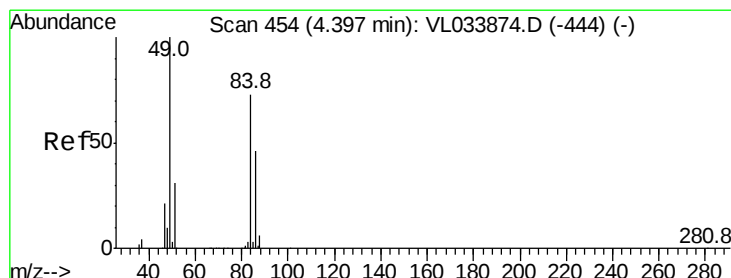
Ion Ratio Lower Upper

84 100

49 140.4 110.0 165.0

51 43.5 34.6 51.8

86 52.3 50.6 75.8

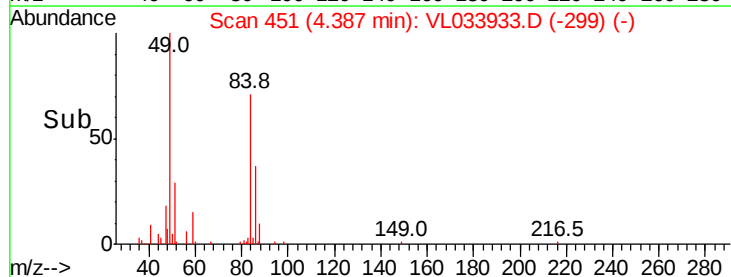
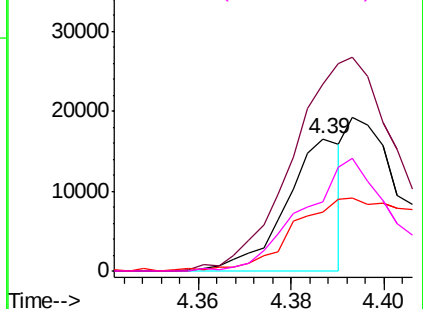


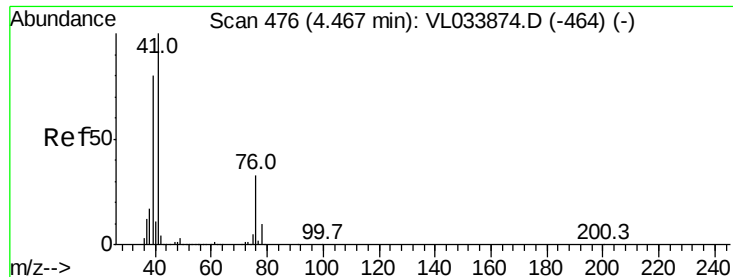
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.035 ppbv

RT: 4.45 min Scan# 472

Delta R.T. -0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

QC060619 CAN 10729

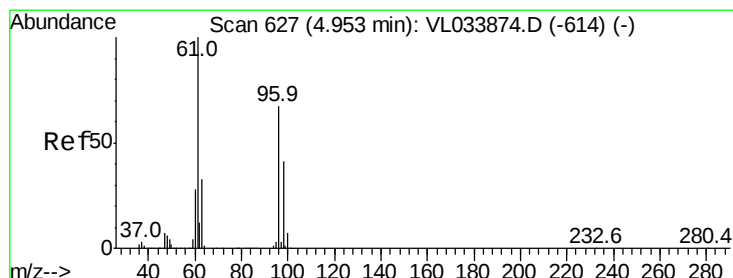
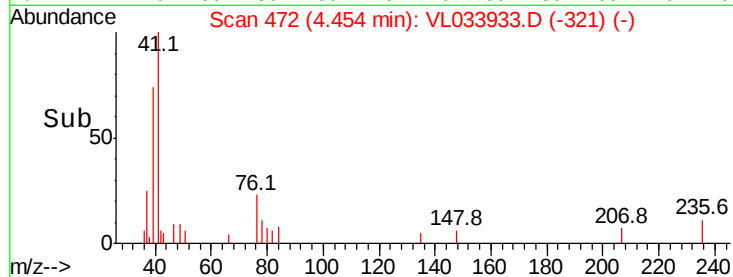
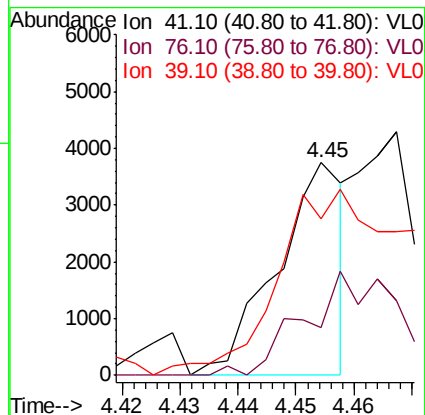
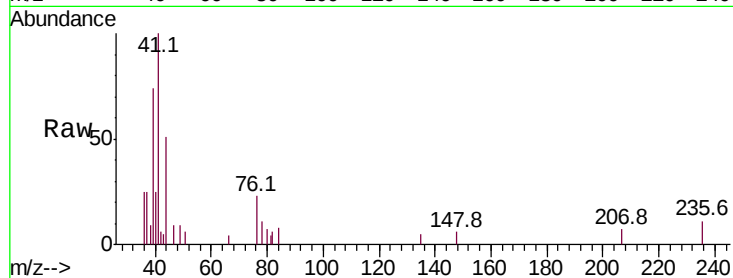
Tot Ion: 41 Resp: 2994

Ion Ratio Lower Upper

41 100

76 74.1 26.6 39.8#

39 191.1 65.2 97.8#



#22

trans-1,2-Dichloroethene

Concen: 0.060 ppbv

RT: 4.94 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

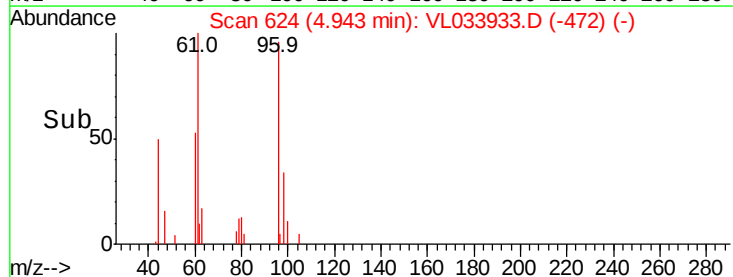
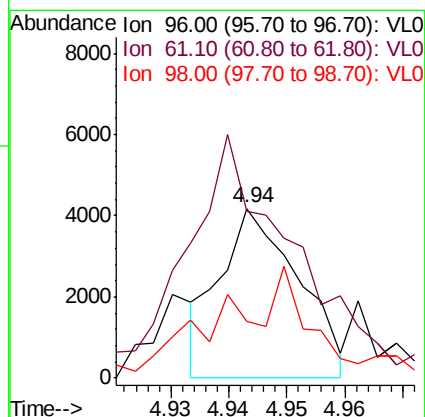
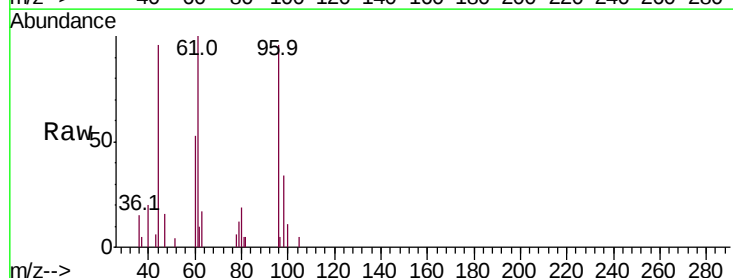
Tgt Ion: 96 Resp: 3922

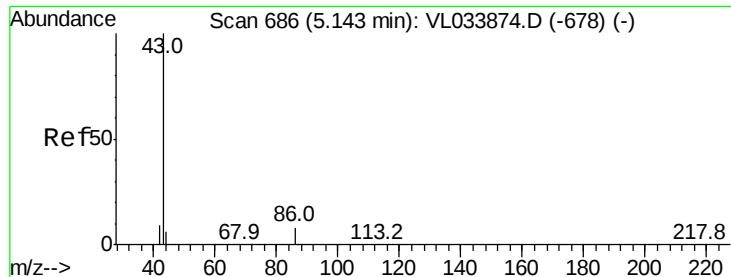
Ion Ratio Lower Upper

96 100

61 57.9 119.0 178.6#

98 26.2 48.3 72.5#





#23

Vinyl Acetate

Concen: 0.063 ppbv

RT: 5.14 min Scan# 684

Delta R.T. -0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

QC060619 CAN 10729

Tot Ion: 43 Resp: 11009

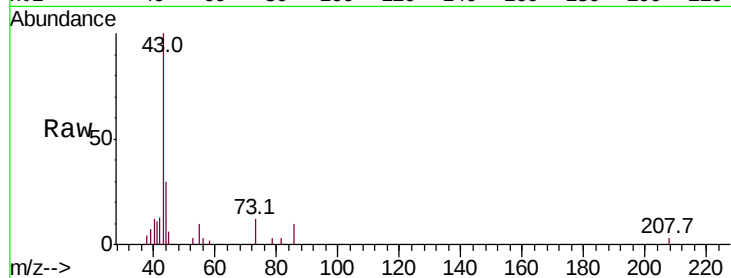
Ion Ratio Lower Upper

43 100

86 10.2 5.8 8.8#

42 12.0 7.8 11.8#

44 18.9 4.2 6.4#

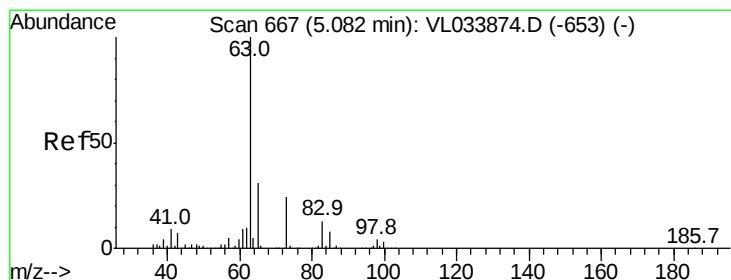
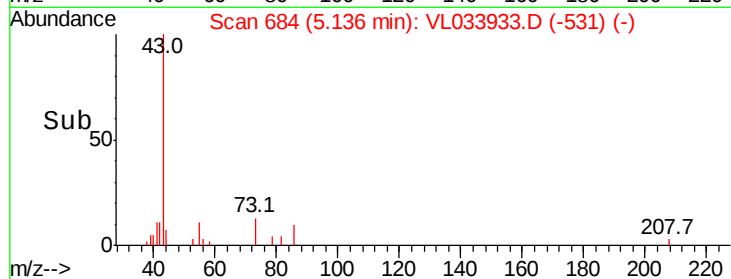
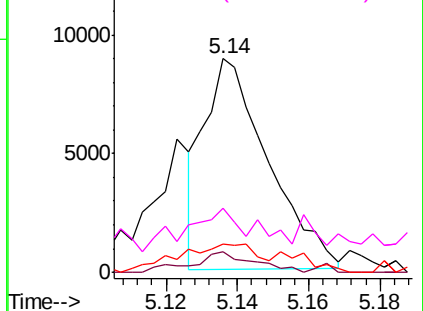


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.080 ppbv

RT: 5.07 min Scan# 664

Delta R.T. -0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

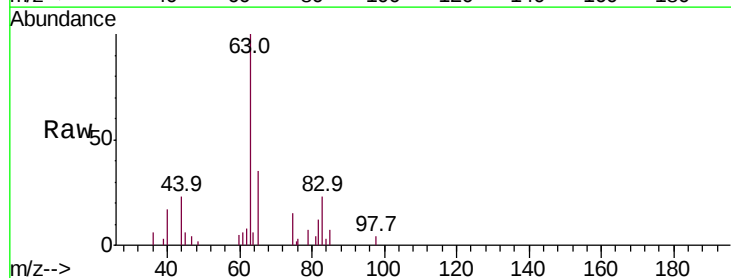
Tgt Ion: 63 Resp: 10916

Ion Ratio Lower Upper

63 100

98 4.0 2.2 6.6

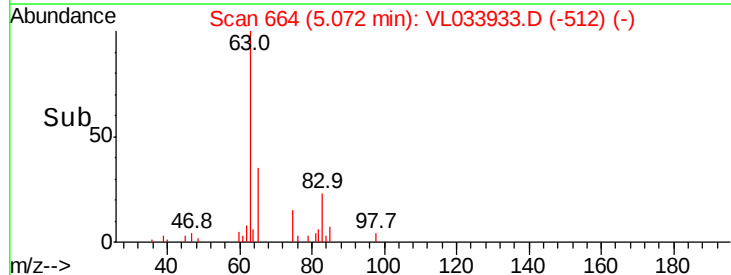
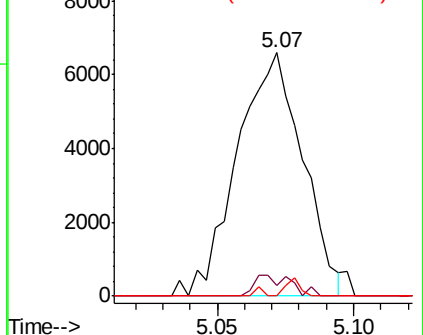
100 0.0 1.3 3.8#

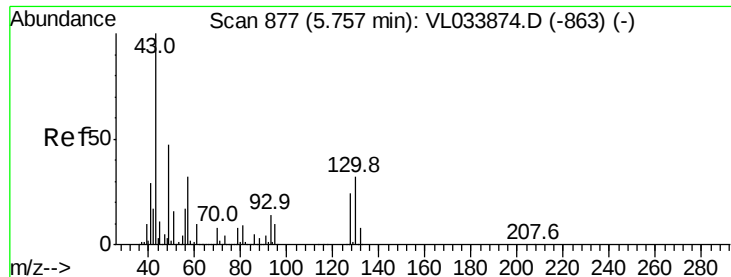


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.138 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

QC060619 CAN 10729

Tot Ion: 43 Resp: 31516

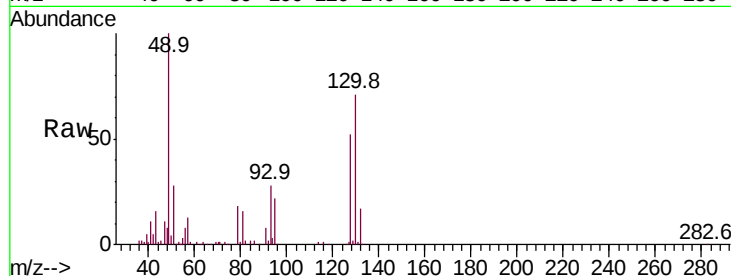
Ion Ratio Lower Upper

43 100

45 8.9 7.9 11.9

61 7.3 7.8 11.6#

70 6.2 5.8 8.6

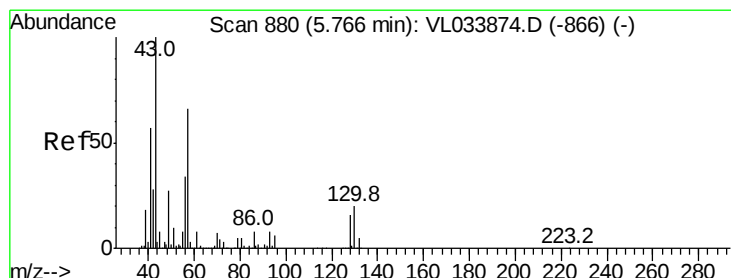
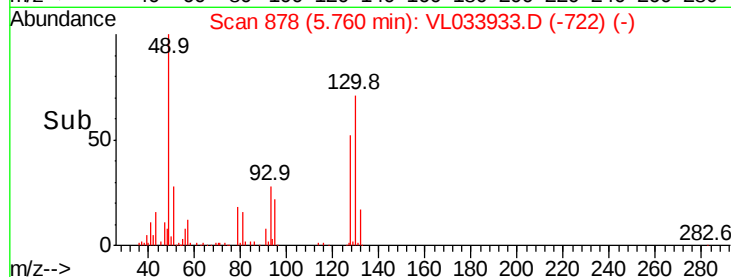
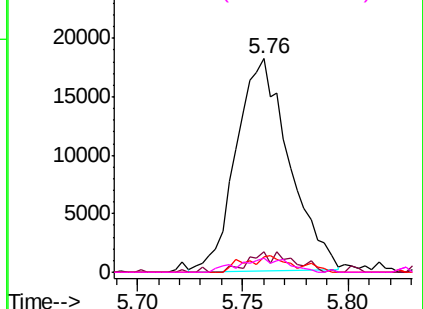


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.270 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.02 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Tgt Ion: 57 Resp: 28182

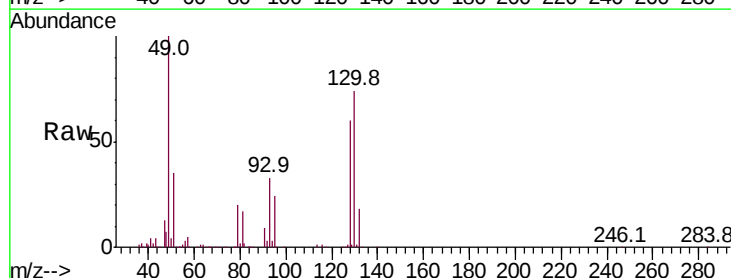
Ion Ratio Lower Upper

57 100

41 89.6 71.4 107.2

43 116.0 183.7 275.5#

56 54.9 42.7 64.1

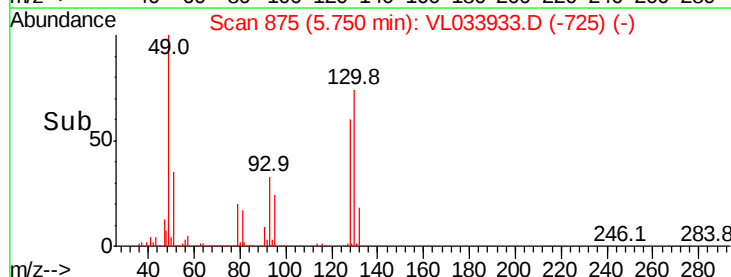
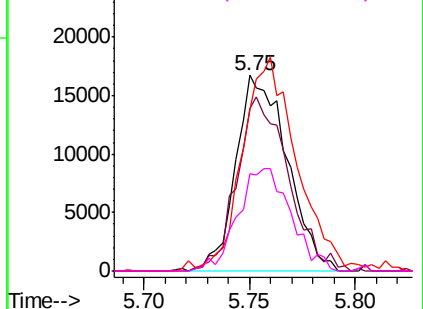


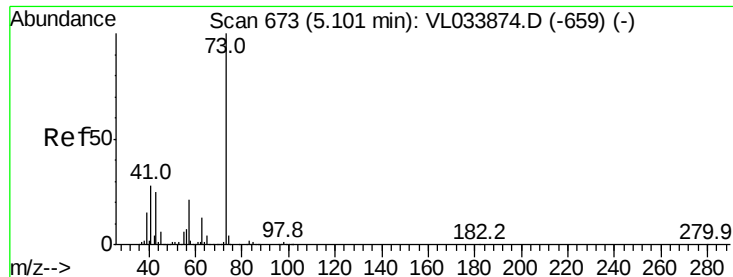
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#28

Methvl tert-Butvl Ether

Concen: 0.039 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

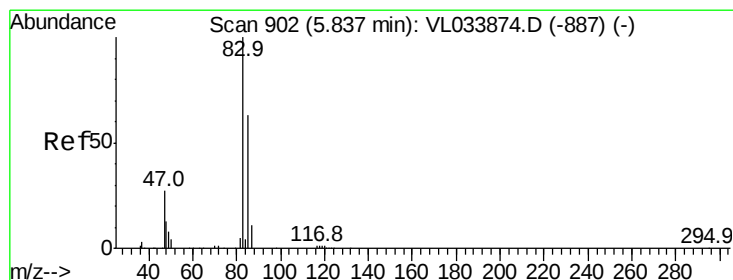
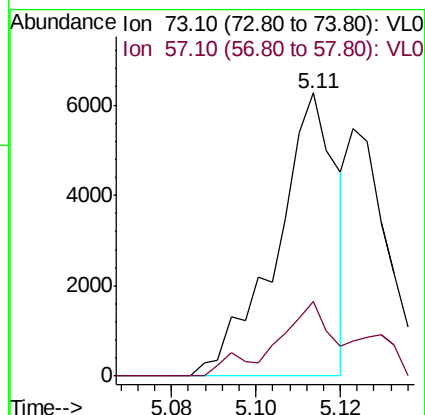
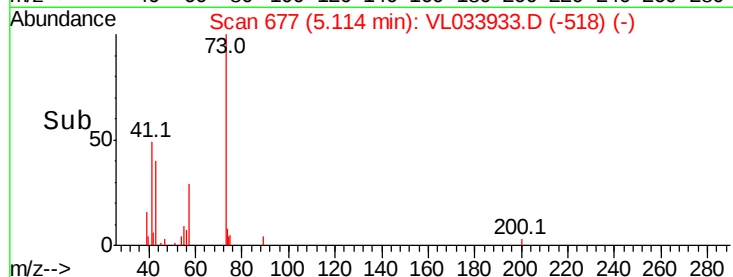
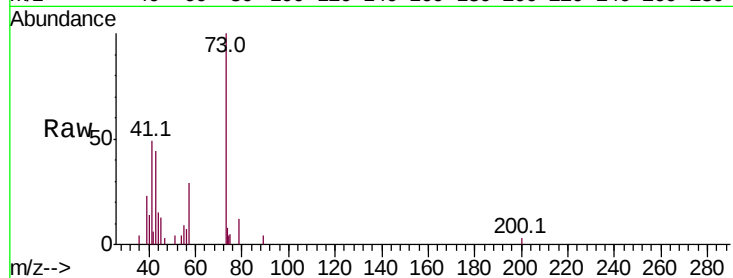
QC060619 CAN 10729

Tot Ion: 73 Resp: 6189

Ion Ratio Lower Upper

73 100

57 38.2 17.2 25.8#



#29

Chloroform

Concen: 0.105 ppbv

RT: 5.82 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL033933.D

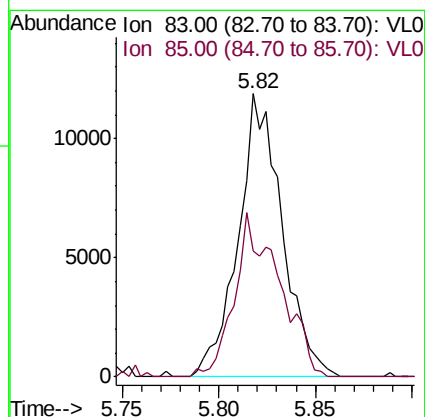
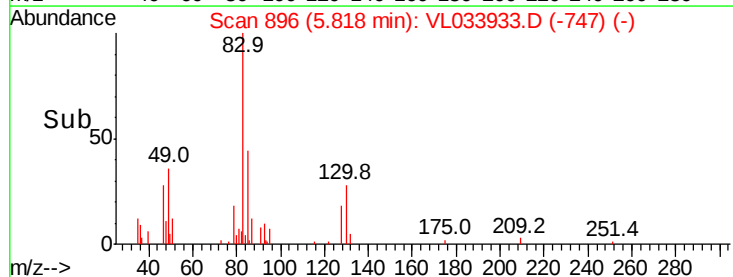
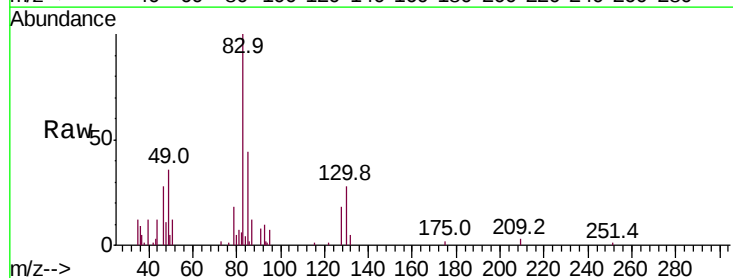
Acq: 24 Jun 2019 12:36

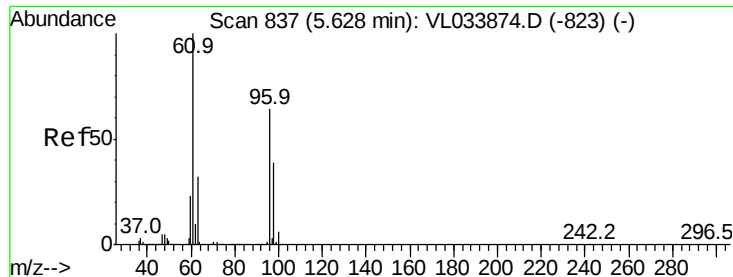
Tgt Ion: 83 Resp: 18737

Ion Ratio Lower Upper

83 100

85 44.4 50.5 75.7#





#31

cis-1,2-Dichloroethene

Concen: 0.041 ppbv

RT: 5.61 min Scan# 832

Delta R.T. -0.02 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

QC060619 CAN 10729

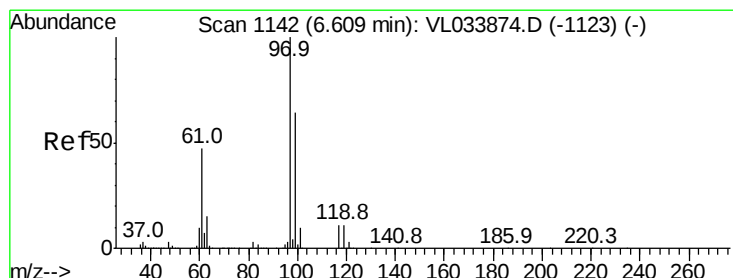
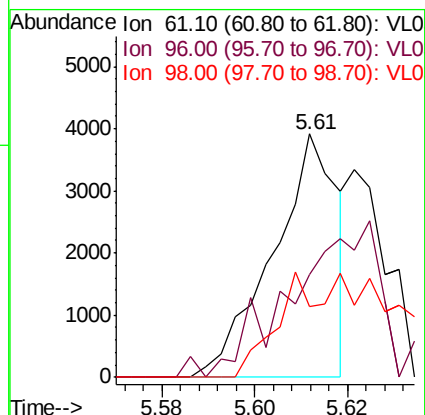
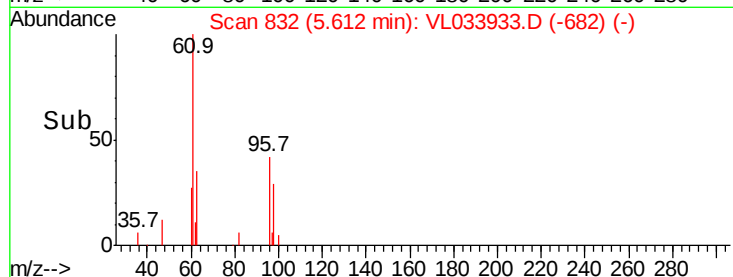
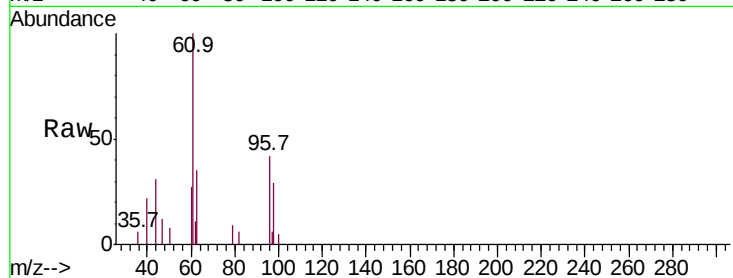
Tot Ion: 61 Resp: 3787

Ion Ratio Lower Upper

61 100

96 33.8 50.9 76.3#

98 29.2 31.4 47.2#



#32

1,1,1-Trichloroethane

Concen: 0.048 ppbv

RT: 6.60 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

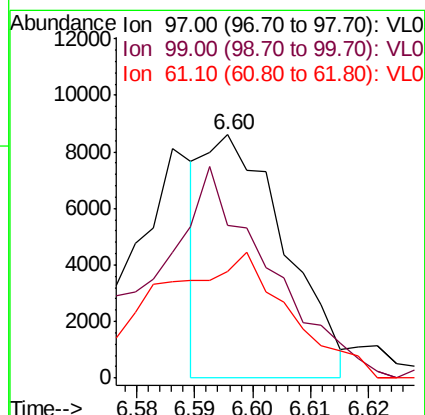
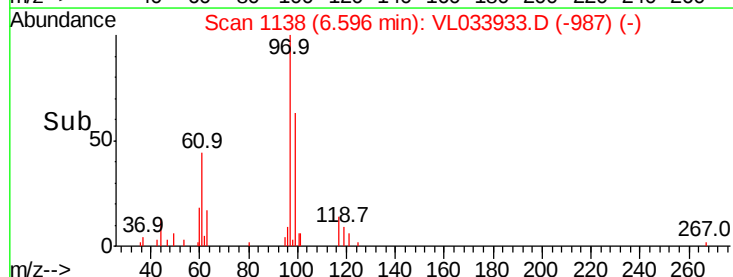
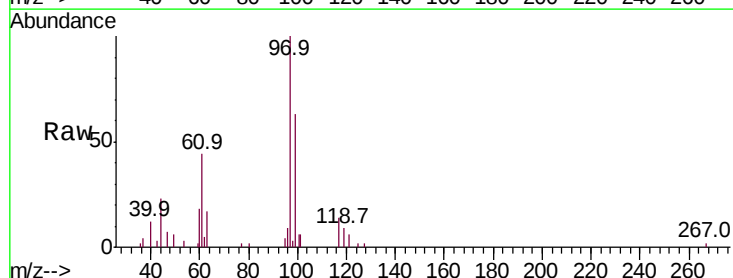
Tgt Ion: 97 Resp: 8284

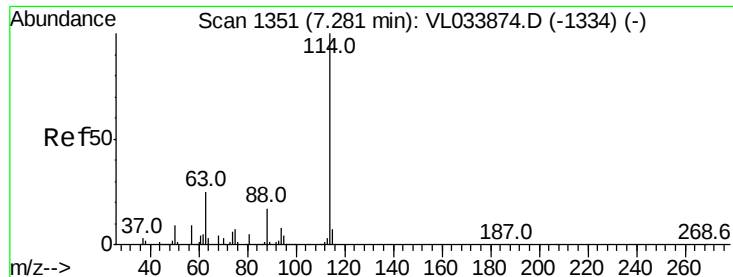
Ion Ratio Lower Upper

97 100

99 131.5 51.7 77.5#

61 93.5 37.7 56.5#

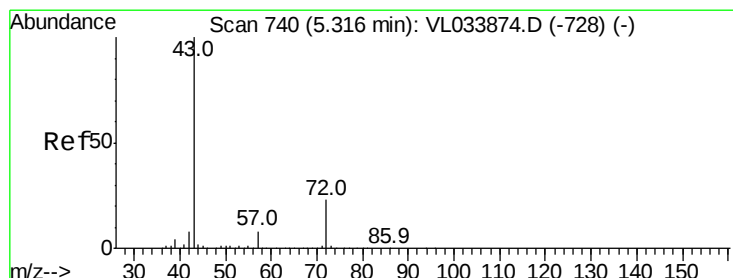
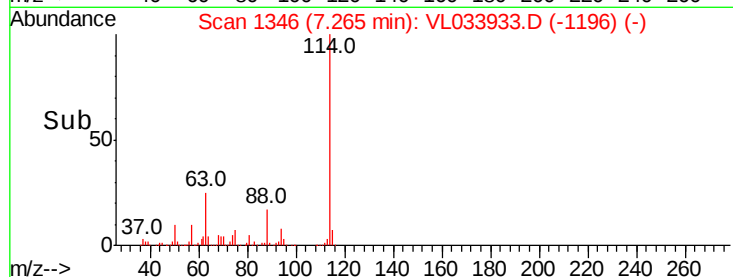
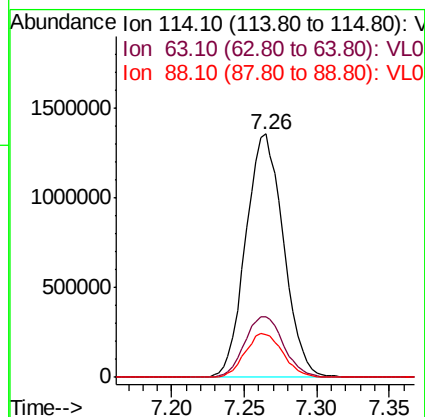
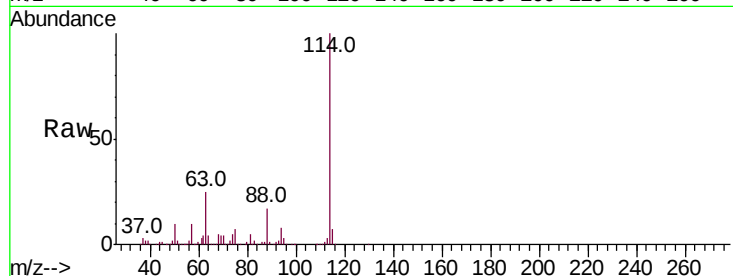




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1346
 Delta R.T. -0.02 min
 Lab File: VL033933.D
 Acq: 24 Jun 2019 12:36

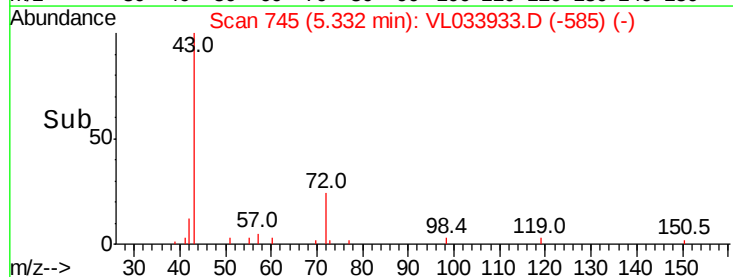
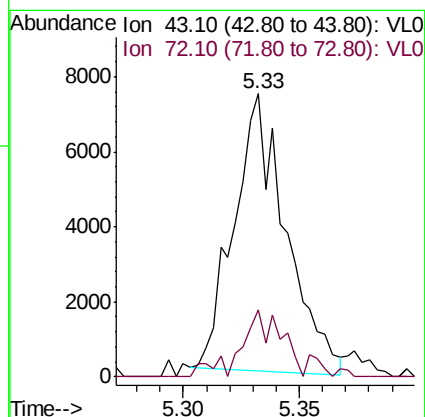
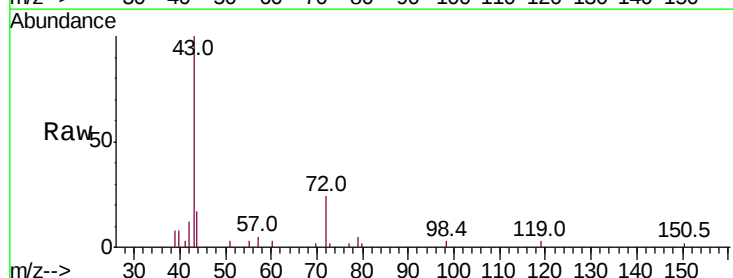
Instrument :
 MSVOA_L
 ClientSampleId :
 QC060619 CAN 10729

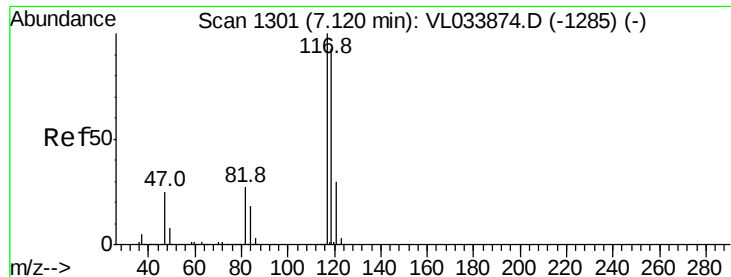
Tot Ion:114 Resp: 2456313
 Ion Ratio Lower Upper
 114 100
 63 25.8 21.1 31.7
 88 18.0 14.2 21.4



#34
 2-Butanone
 Concen: 0.083 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.02 min
 Lab File: VL033933.D
 Acq: 24 Jun 2019 12:36

Tgt Ion: 43 Resp: 11486
 Ion Ratio Lower Upper
 43 100
 72 21.8 17.9 26.9





#35

Carbon Tetrachloride

Concen: 0.085 ppbv

RT: 7.11 min Scan# 1298

Delta R.T. -0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

QC060619 CAN 10729

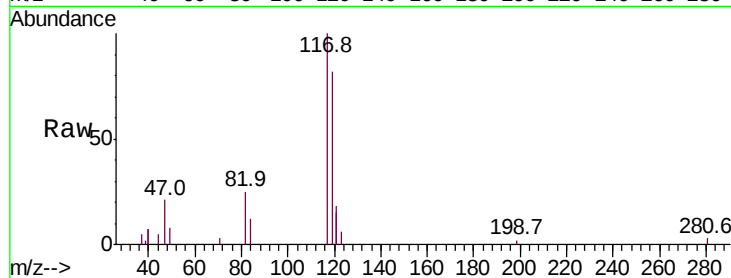
Tot Ion:117 Resp: 16083

Ion Ratio Lower Upper

117 100

119 82.0 74.6 111.8

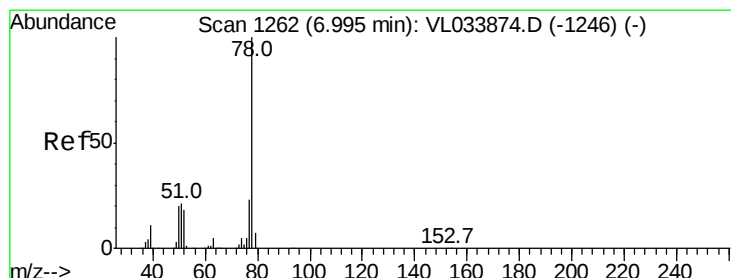
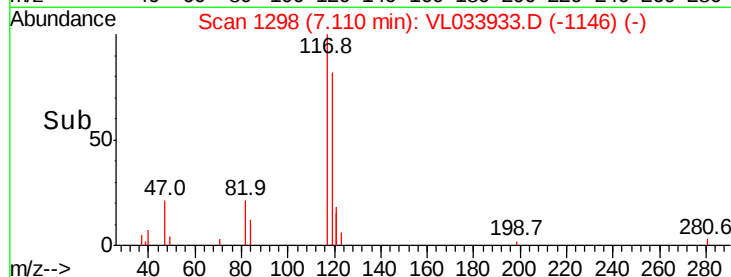
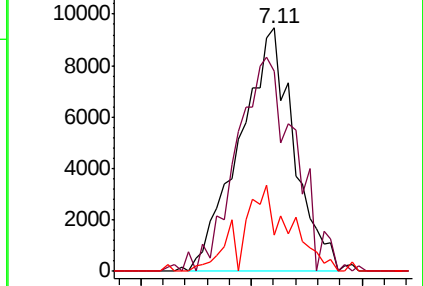
121 15.1 24.0 36.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.035 ppbv

RT: 6.98 min Scan# 1258

Delta R.T. -0.01 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

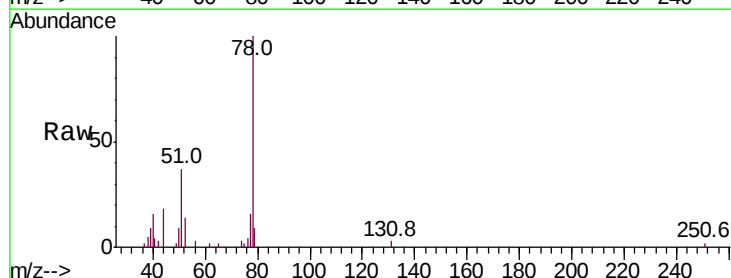
Tgt Ion: 78 Resp: 6497

Ion Ratio Lower Upper

78 100

77 14.4 18.2 27.2#

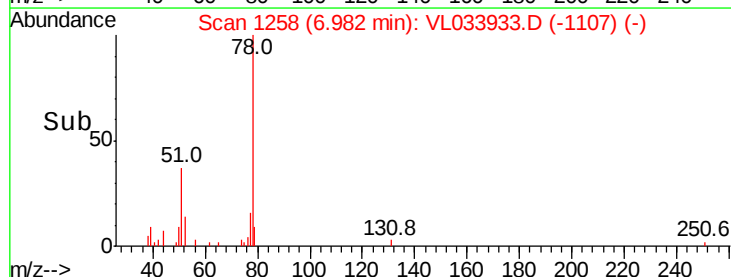
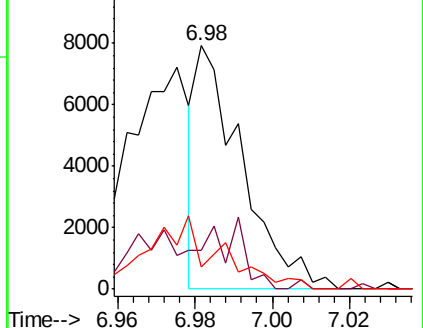
50 8.4 15.9 23.9#

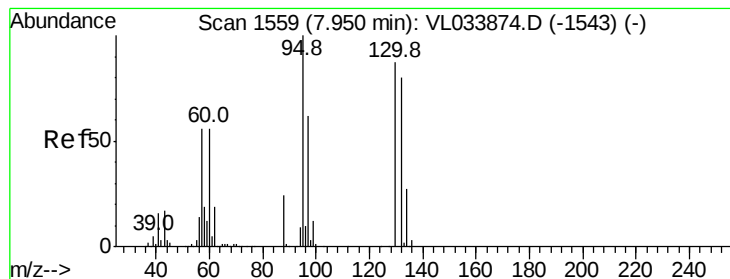


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.057 ppbv

RT: 7.93 min Scan# 1553

Delta R.T. -0.02 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

QC060619 CAN 10729

Tot Ion:130 Resp: 4189

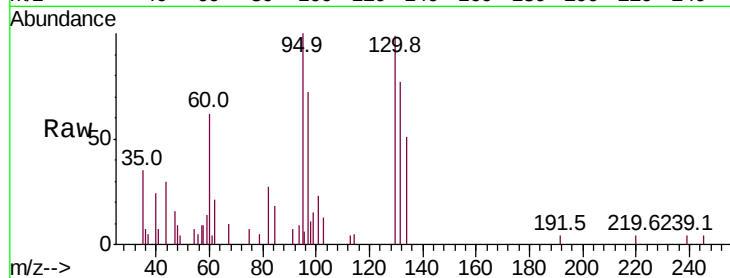
Ion Ratio Lower Upper

130 100

95 60.0 92.0 138.0#

132 77.3 73.8 110.8

97 38.7 57.2 85.8#

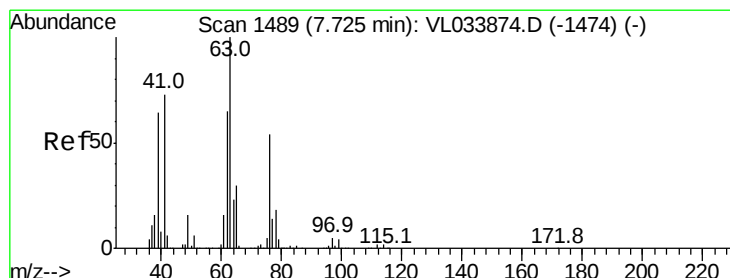
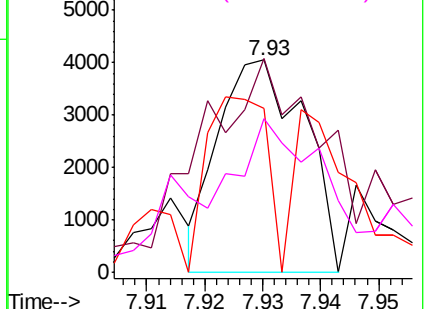
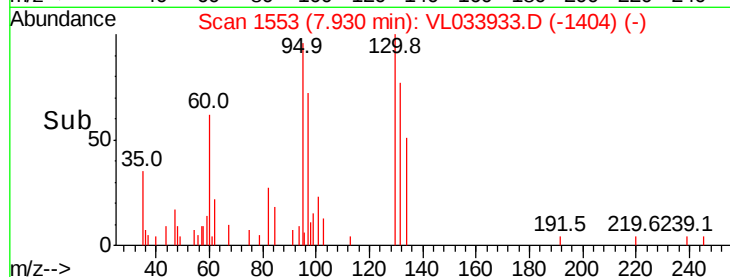


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.701 ppbv

RT: 7.26 min Scan# 1345

Delta R.T. -0.46 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

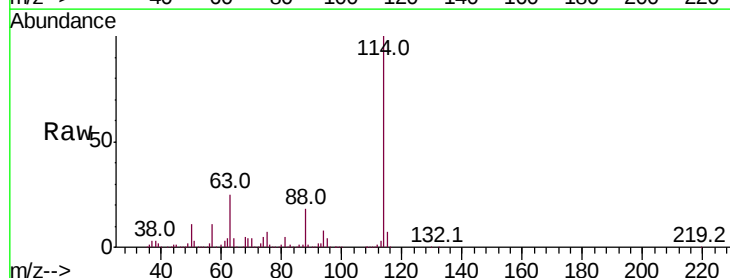
Tgt Ion: 63 Resp: 630109

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

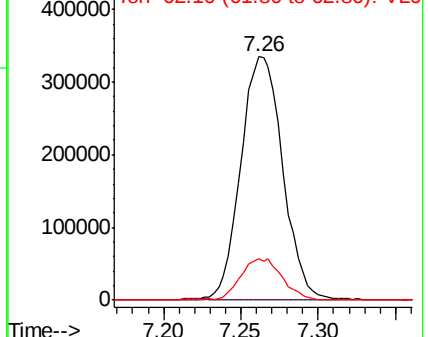
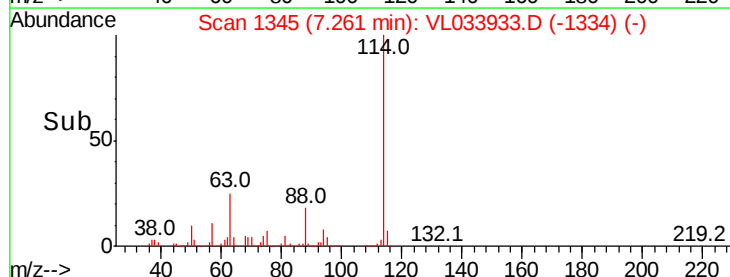
62 17.0 51.9 77.9#

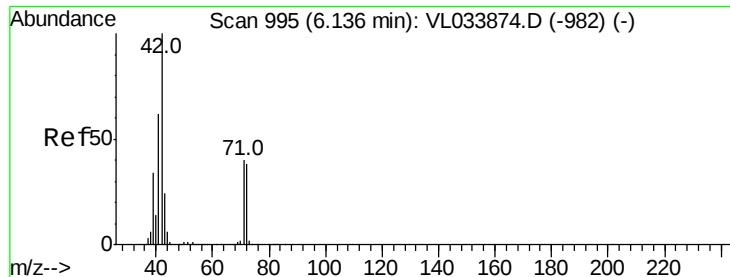


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.038 ppbv

RT: 6.16 min Scan# 1002

Delta R.T. 0.02 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

QC060619 CAN 10729

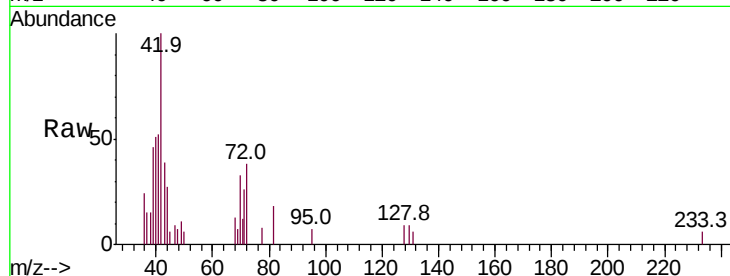
Tot Ion: 42 Resp: 2638

Ion Ratio Lower Upper

42 100

72 91.6 32.2 48.4#

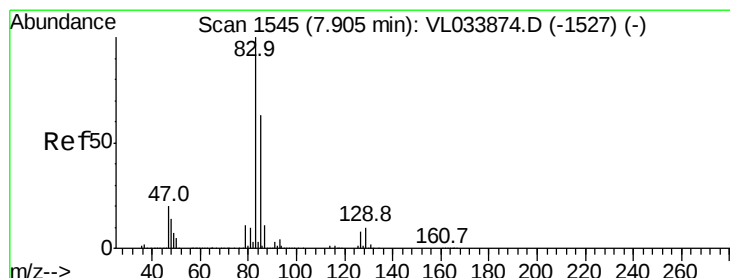
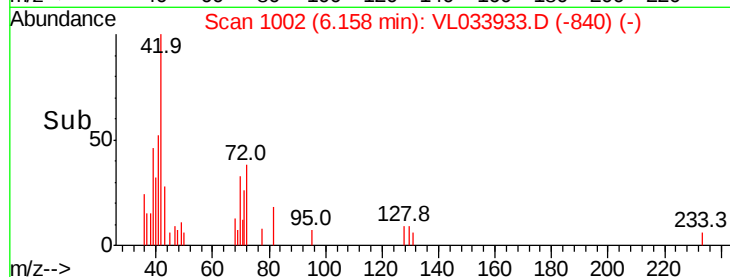
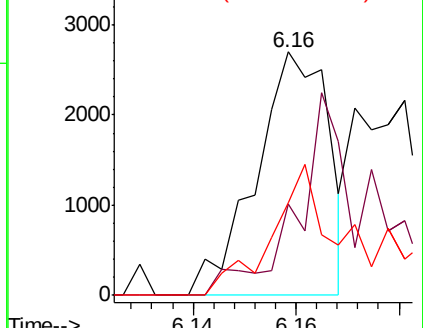
71 65.0 31.7 47.5#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.062 ppbv

RT: 7.88 min Scan# 1538

Delta R.T. -0.02 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

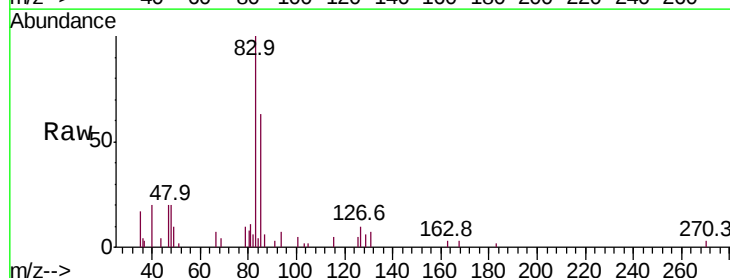
Tgt Ion: 83 Resp: 11521

Ion Ratio Lower Upper

83 100

85 38.9 50.2 75.2#

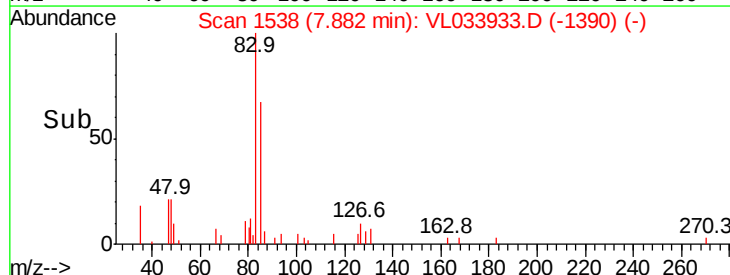
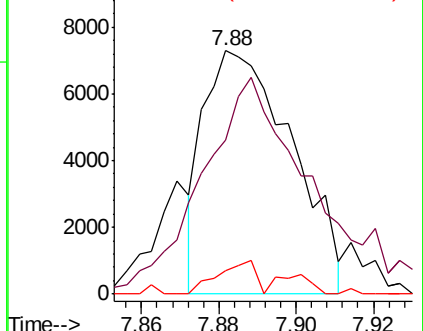
127 11.0 6.5 9.7#

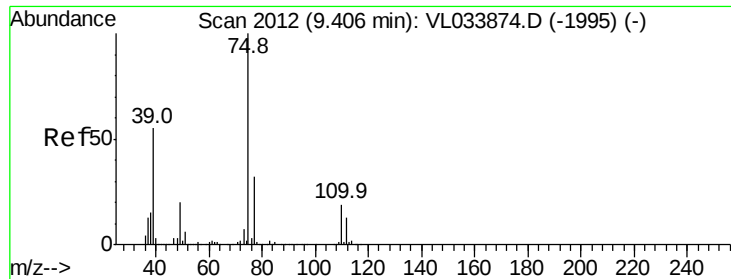


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#45

t-1,3-Dichloropropene

Concen: 0.039 ppbv

RT: 9.39 min Scan# 2006

Delta R.T. -0.02 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

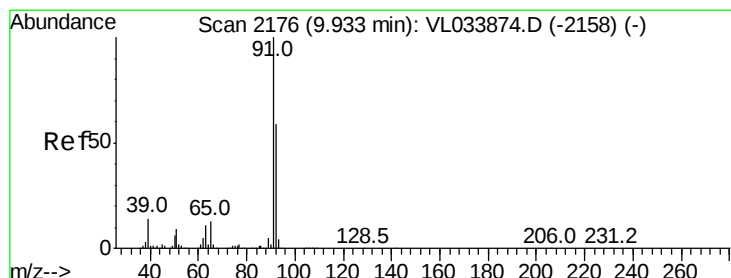
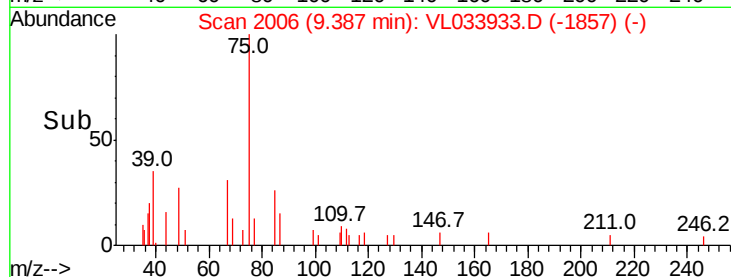
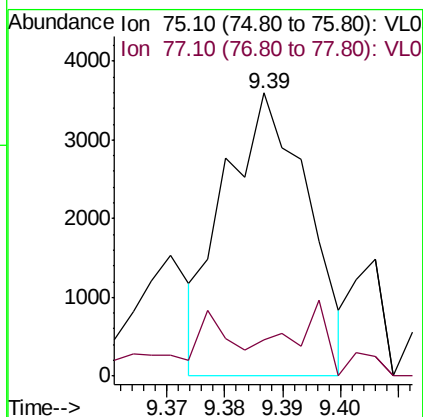
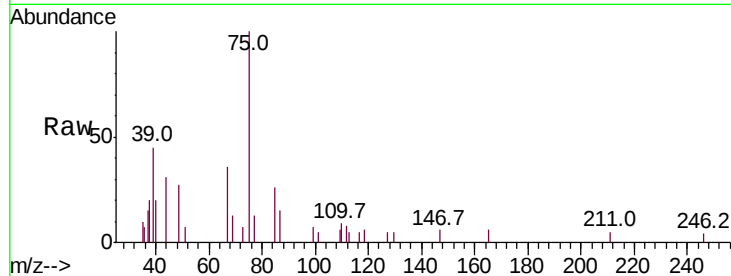
QC060619 CAN 10729

Tot Ion: 75 Resp: 3586

Ion Ratio Lower Upper

75 100

77 12.8 25.4 38.2#



#53

Toluene

Concen: 0.033 ppbv

RT: 9.91 min Scan# 2169

Delta R.T. -0.02 min

Lab File: VL033933.D

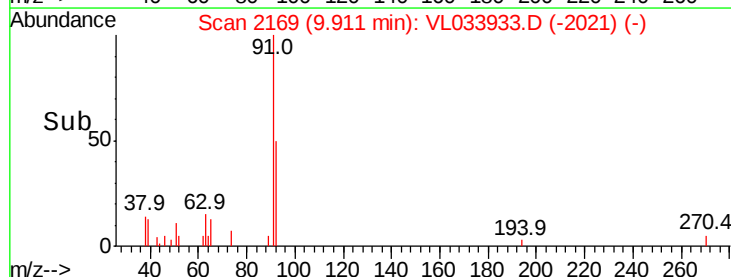
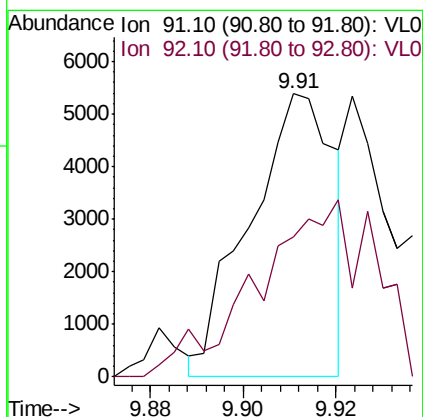
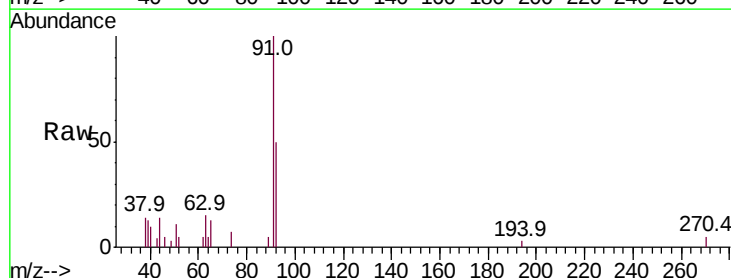
Acq: 24 Jun 2019 12:36

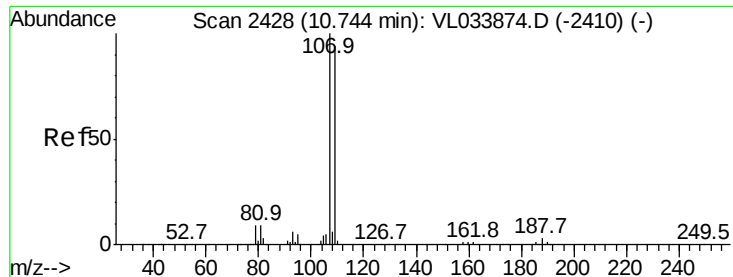
Tgt Ion: 91 Resp: 6784

Ion Ratio Lower Upper

91 100

92 0.0 47.0 70.6#





#54

1,2-Dibromoethane

Concen: 0.047 ppbv

RT: 10.73 min Scan# 2423

Delta R.T. -0.02 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

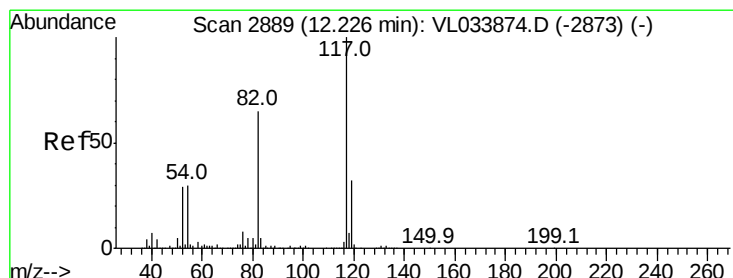
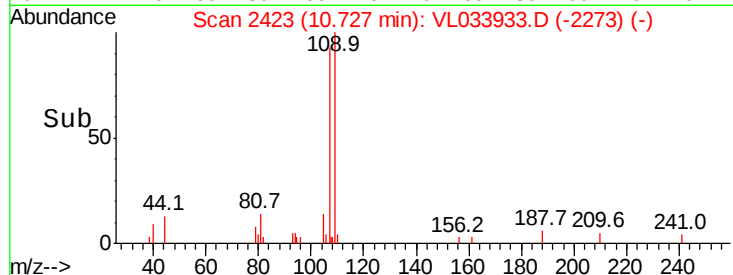
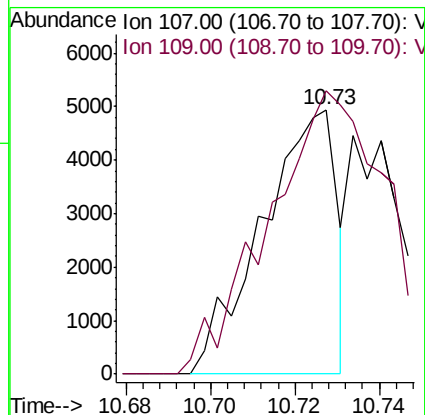
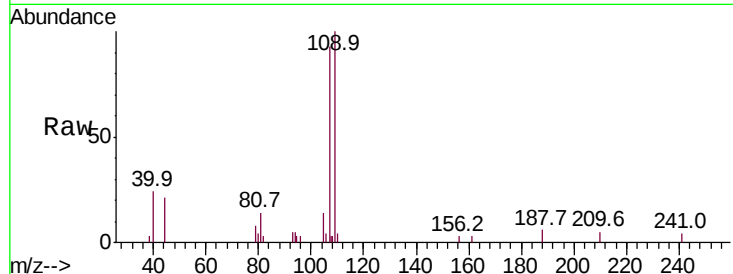
QC060619 CAN 10729

Tot Ion:107 Resp: 6073

Ion Ratio Lower Upper

107 100

109 97.9 74.9 112.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2883

Delta R.T. -0.02 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

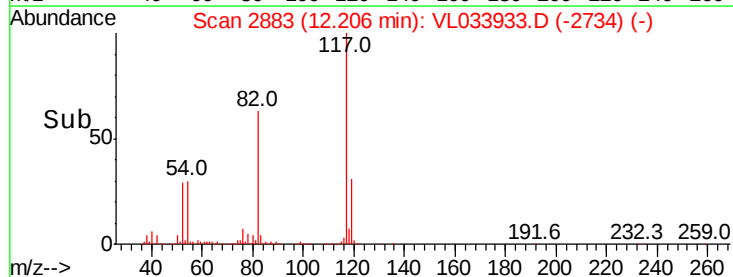
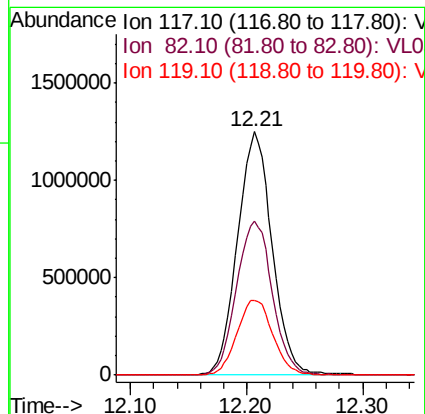
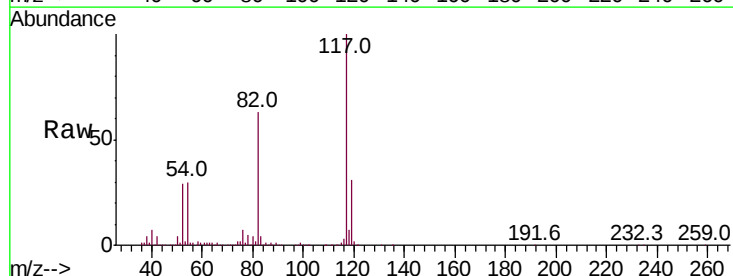
Tgt Ion:117 Resp: 2588998

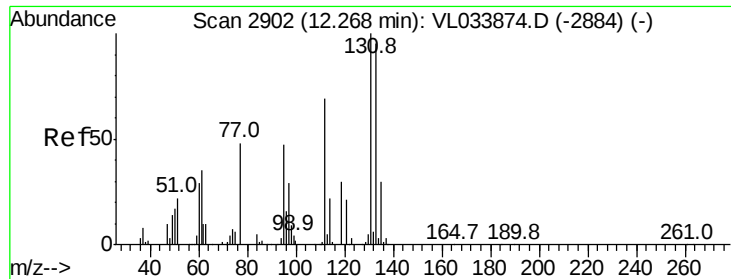
Ion Ratio Lower Upper

117 100

82 66.0 50.2 75.2

119 32.4 24.8 37.2

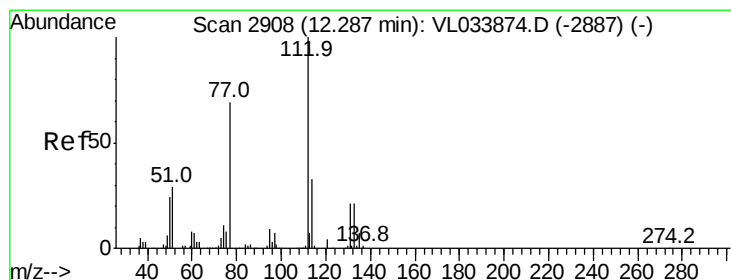
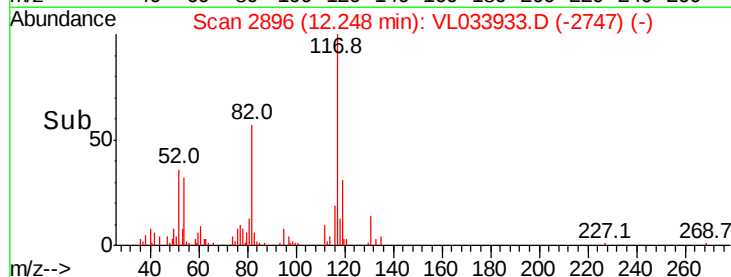
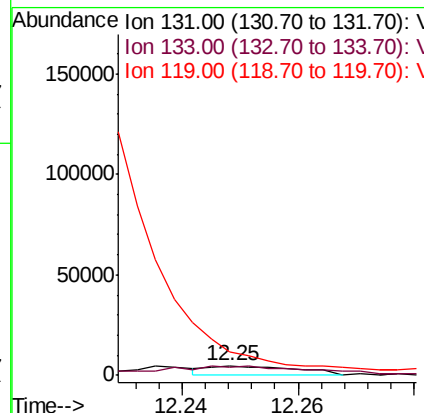
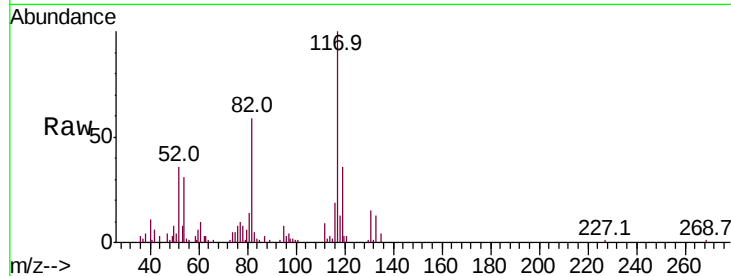




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.043 ppbv
 RT: 12.25 min Scan# 2896
 Delta R.T. -0.02 min
 Lab File: VL033933.D
 Acq: 24 Jun 2019 12:36

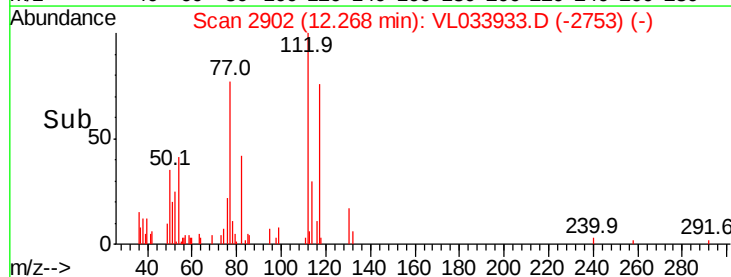
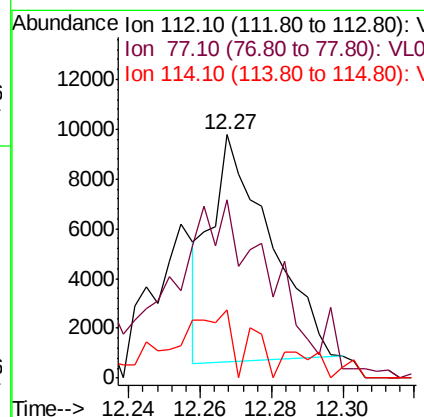
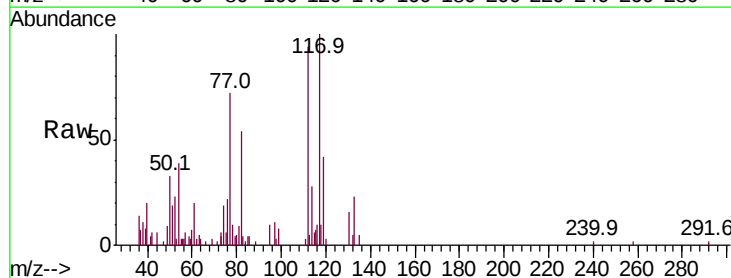
Instrument :
 MSVOA_L
 ClientSampleId :
 QC060619 CAN 10729

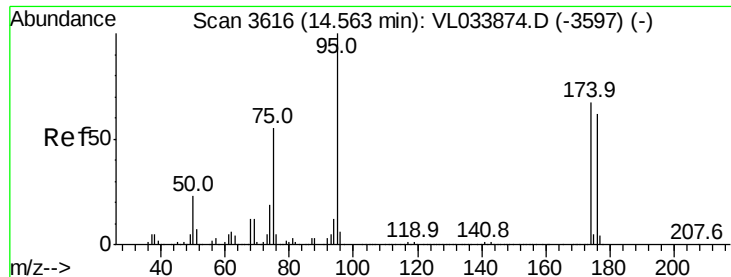
Tot Ion:131 Resp: 4822
 Ion Ratio Lower Upper
 131 100
 133 216.3 76.5 114.7#
 119 0.0 42.6 64.0#



#57
 Chlorobenzene
 Concen: 0.054 ppbv
 RT: 12.27 min Scan# 2902
 Delta R.T. -0.02 min
 Lab File: VL033933.D
 Acq: 24 Jun 2019 12:36

Tgt Ion:112 Resp: 10515
 Ion Ratio Lower Upper
 112 100
 77 73.9 55.8 83.6
 114 26.4 29.8 36.4#

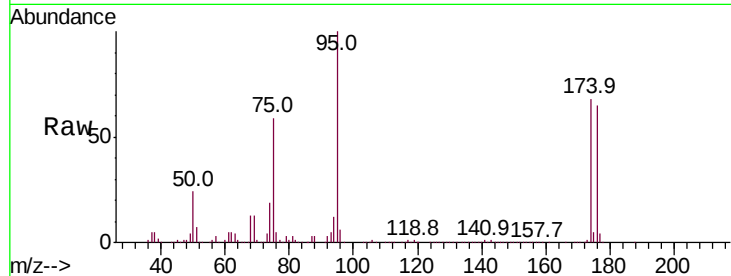




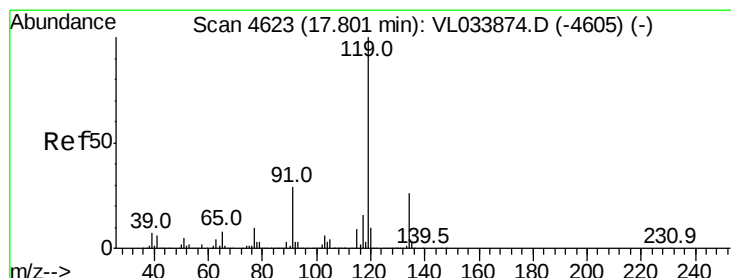
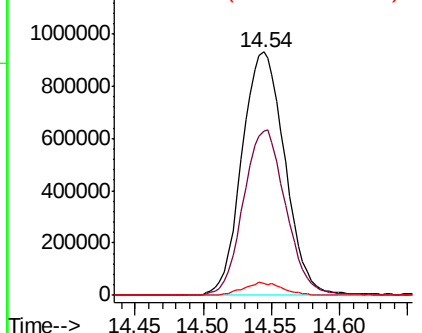
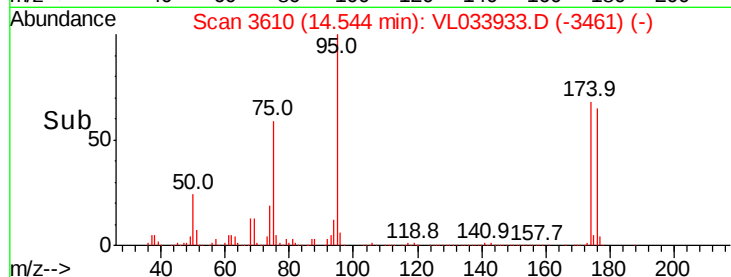
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.555 ppbv
 RT: 14.54 min Scan# 3610
 Delta R.T. -0.02 min
 Lab File: VL033933.D
 Acq: 24 Jun 2019 12:36

Instrument :
 MSVOA_L
 ClientSampleId :
 QC060619 CAN 10729

Tot Ion: 95 Resp: 2031926
 Ion Ratio Lower Upper
 95 100
 174 67.8 54.0 81.0
 175 4.9 3.8 5.8

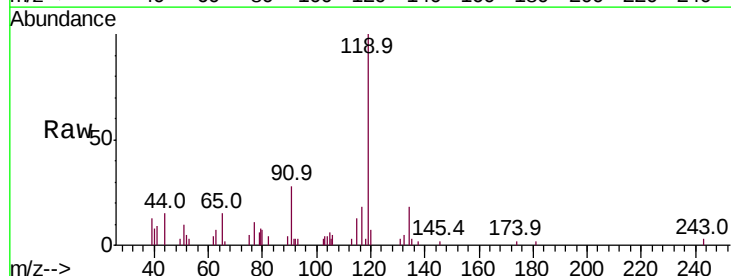


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

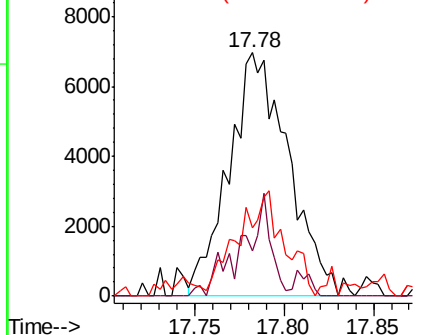
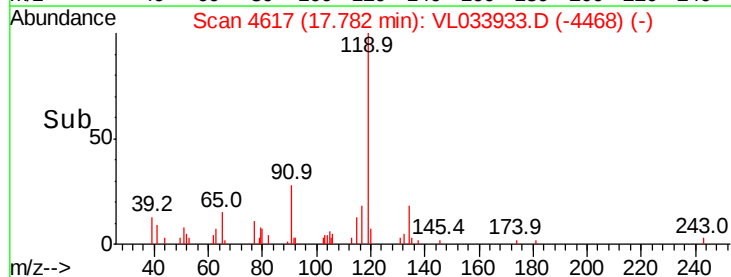


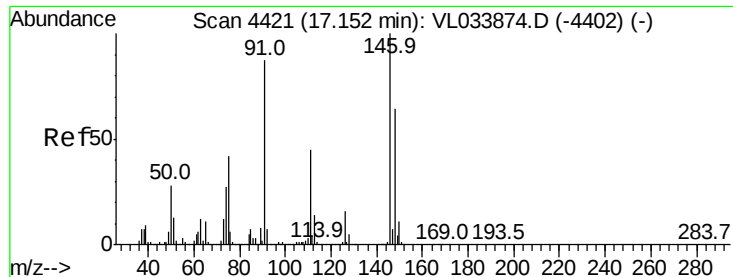
#69
 p-Isopropyltoluene
 Concen: 0.041 ppbv
 RT: 17.78 min Scan# 4617
 Delta R.T. -0.02 min
 Lab File: VL033933.D
 Acq: 24 Jun 2019 12:36

Tgt Ion: 119 Resp: 16166
 Ion Ratio Lower Upper
 119 100
 134 23.6 20.3 30.5
 91 43.7 23.8 35.6#



Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.089 ppbv

RT: 17.14 min Scan# 4416

Delta R.T. -0.02 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

QC060619 CAN 10729

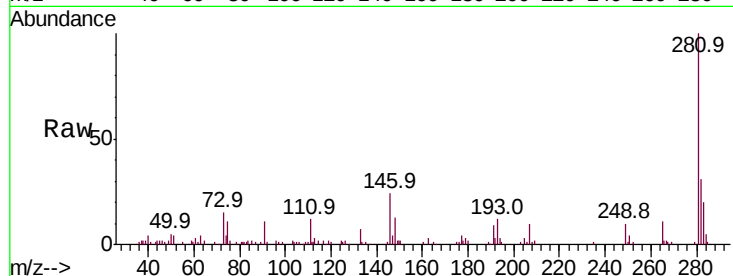
Tot Ion:146 Resp: 19648

Ion Ratio Lower Upper

146 100

111 53.2 22.8 68.3

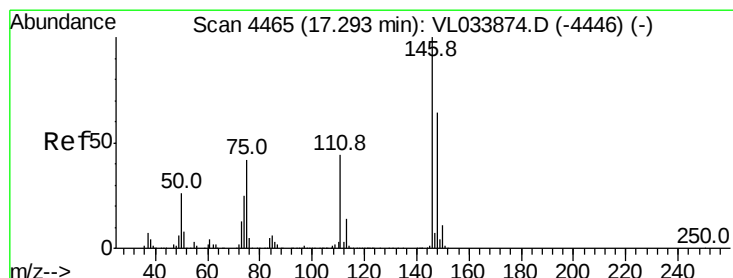
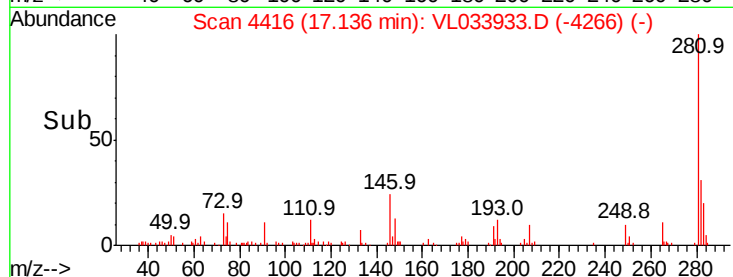
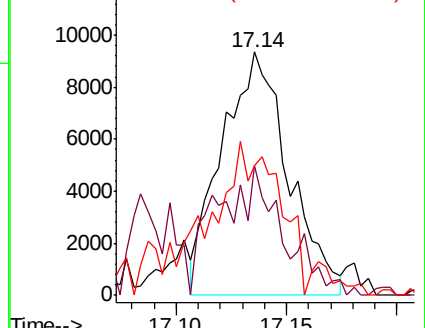
148 81.4 32.2 96.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.030 ppbv

RT: 17.27 min Scan# 4457

Delta R.T. -0.03 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

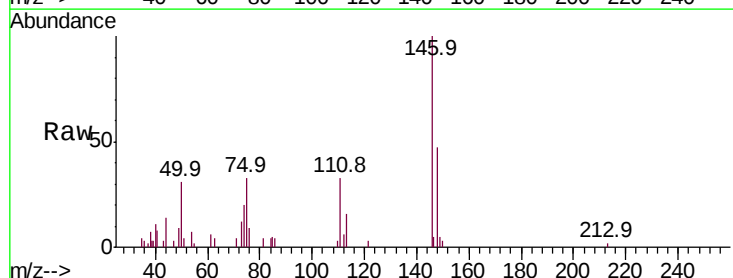
Tgt Ion:146 Resp: 6203

Ion Ratio Lower Upper

146 100

111 115.4 22.1 66.5#

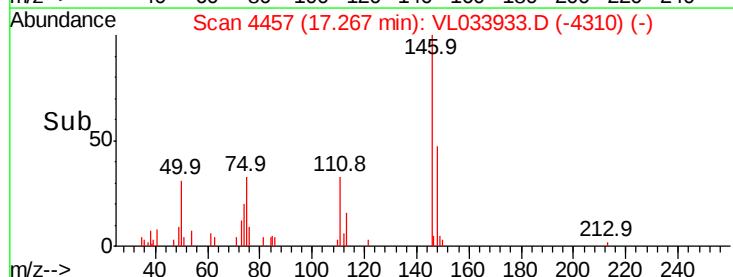
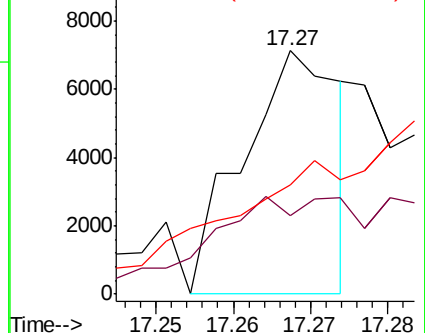
148 0.0 32.4 97.0#

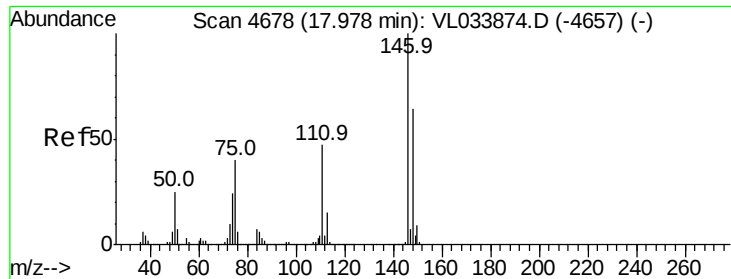


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

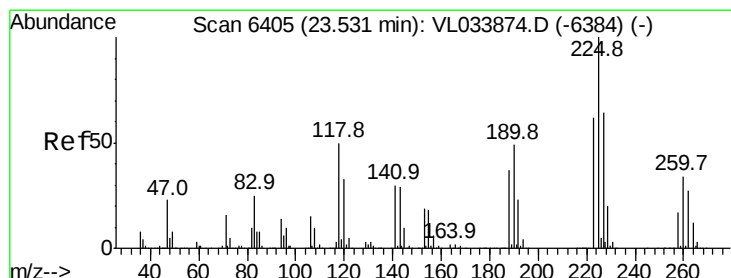
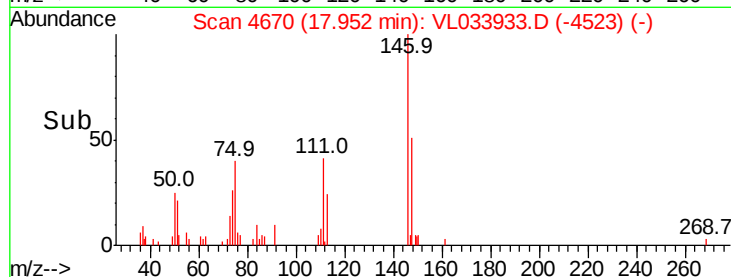
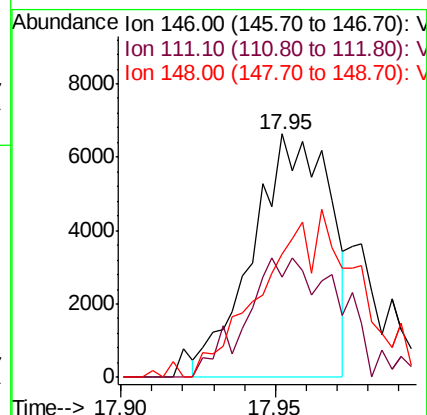
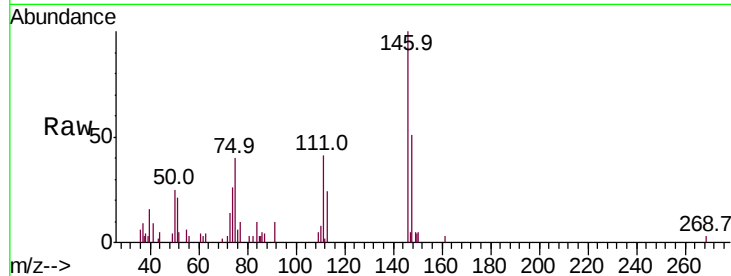




#77
 1,2-Dichlorobenzene
 Concen: 0.056 ppbv
 RT: 17.95 min Scan# 4670
 Delta R.T. -0.03 min
 Lab File: VL033933.D
 Acq: 24 Jun 2019 12:36

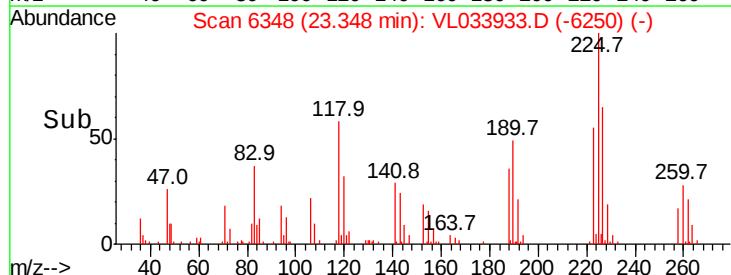
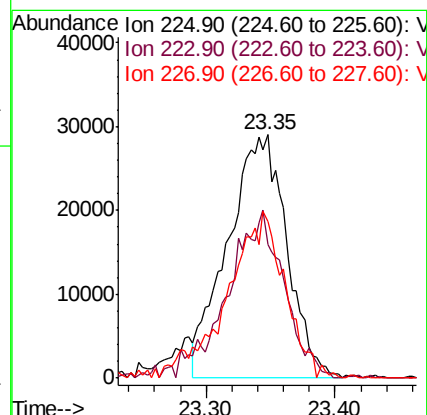
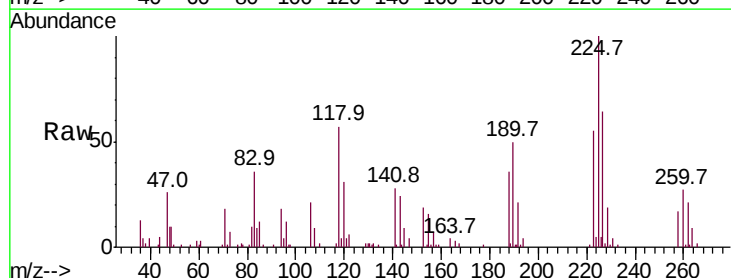
Instrument :
 MSVOA_L
 ClientSampleId :
 QC060619 CAN 10729

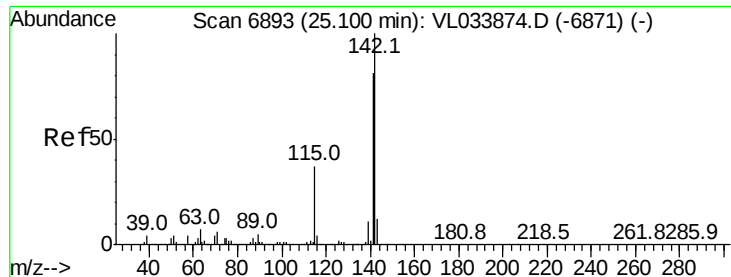
Tot Ion:146 Resp: 11490
 Ion Ratio Lower Upper
 146 100
 111 61.7 23.4 70.0
 148 0.0 31.8 95.4#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.579 ppbv
 RT: 23.35 min Scan# 6348
 Delta R.T. -0.18 min
 Lab File: VL033933.D
 Acq: 24 Jun 2019 12:36

Tgt Ion:225 Resp: 92596
 Ion Ratio Lower Upper
 225 100
 223 66.9 50.8 76.2
 227 67.4 51.8 77.6





#80

Naphthalene, 2-methyl-

Concen: 0.159 ppbv

RT: 25.10 min Scan# 6892

Delta R.T. -0.00 min

Lab File: VL033933.D

Acq: 24 Jun 2019 12:36

Instrument :

MSVOA_L

ClientSampleId :

QC060619 CAN 10729

Tot Ion:142 Resp: 17960

Ion Ratio Lower Upper

142 100

141 84.9 65.7 98.5

115 42.7 28.9 43.3

