

Data File : VL033534.D
Acq On : 4 Apr 2019 15:43
Operator : SY/AP
Sample : QC040319 CAN 10284
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC040319 CAN 10284

Quant Time: Apr 05 01:56:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1242378	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2815620	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2968859	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2328267	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

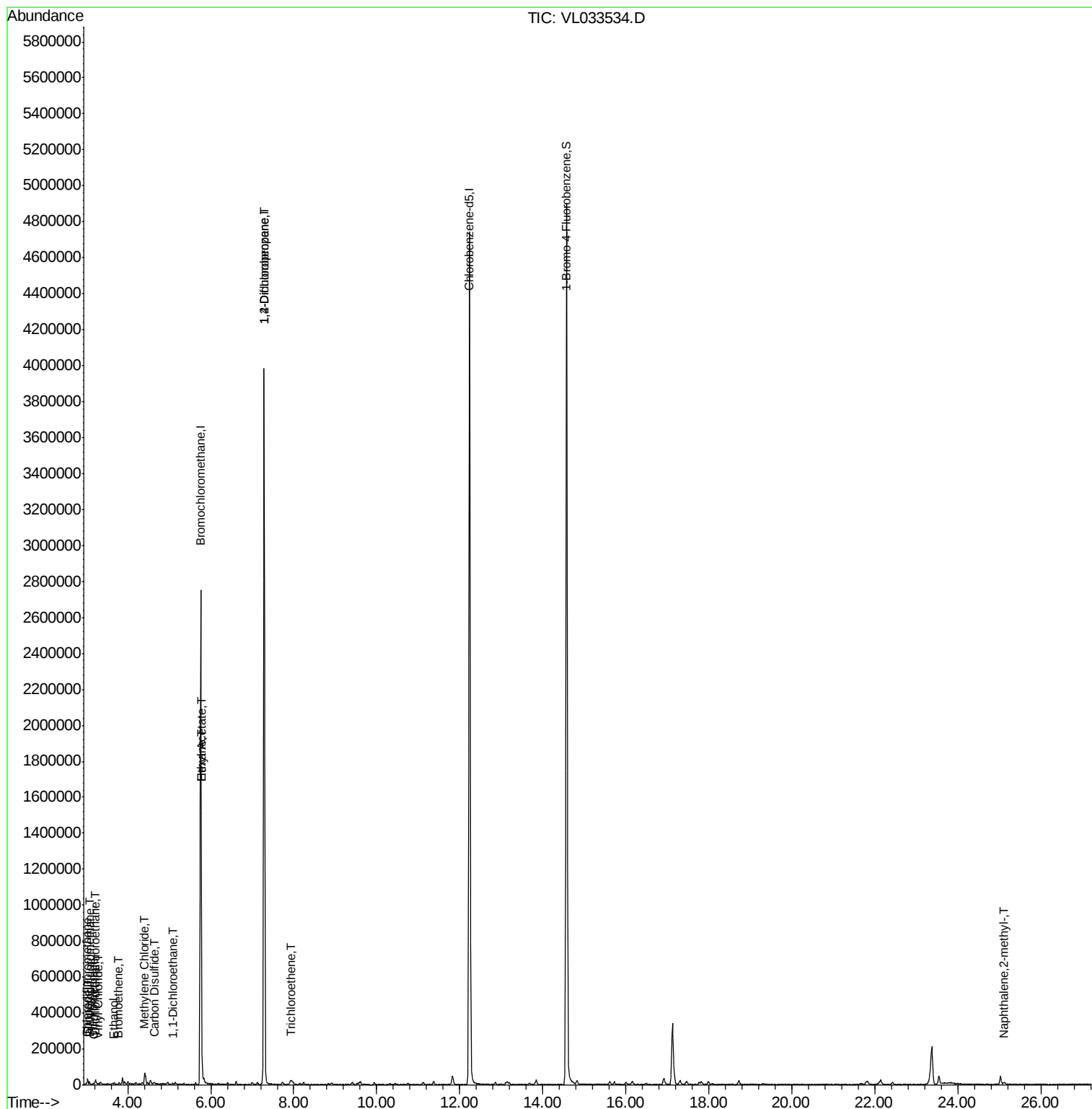
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	8976	0.050	ppbv	89
3) Chlorodifluoromethane	3.01	51	7486	0.052	ppbv	99
4) Chloromethane	3.17	50	4304	0.057	ppbv #	73
5) Vinyl Chloride	3.29	62	3127	0.042	ppbv #	44
8) Dichlorotetrafluoroethane	3.22	85	8614	0.045	ppbv	97
9) Propene	3.04	41	2146	0.036	ppbv #	38
13) Ethanol	3.66	45	476	0.031	ppbv #	18
14) Bromoethene	3.79	108	1959	0.033	ppbv #	92
20) Methylene Chloride	4.41	84	18701	0.295	ppbv	86
24) 1,1-Dichloroethane	5.09	63	5754	0.036	ppbv #	96
25) Ethyl Acetate	5.78	43	16018	0.058	ppbv #	94
26) Hexane	5.78	57	10604	0.086	ppbv #	66
27) Carbon Disulfide	4.62	76	4943	0.034	ppbv #	72
38) Trichloroethene	7.95	130	3260	0.037	ppbv #	52
39) 1,2-Dichloropropane	7.28	63	727421	7.860	ppbv #	24
80) Naphthalene,2-methyl-	25.11	142	7774	0.069	ppbv	94

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

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033534.D

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Instrument :

MSVOA_L

ClientSampleId :

QC040319 CAN 10284

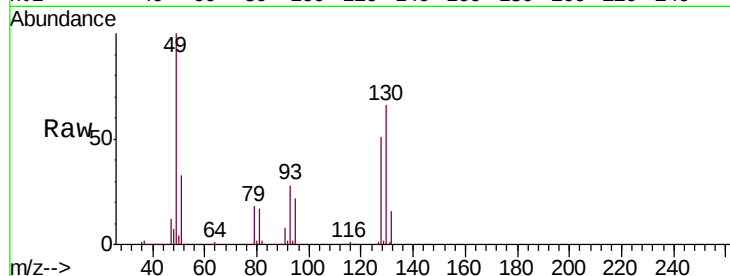
Tgt Ion: 49 Resp: 1242378

Ion Ratio Lower Upper

49 100

128 49.0 24.0 72.0

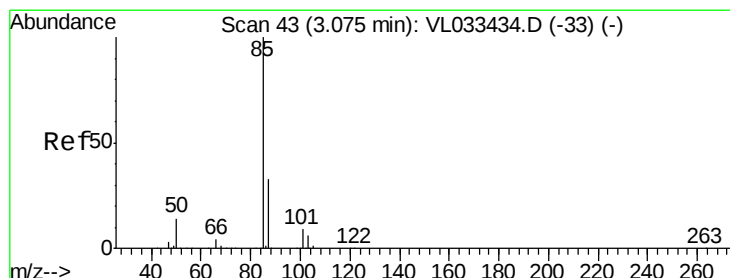
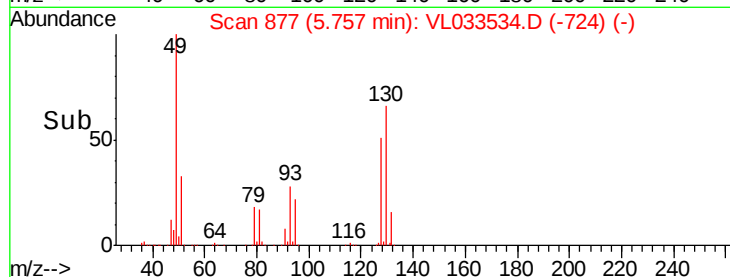
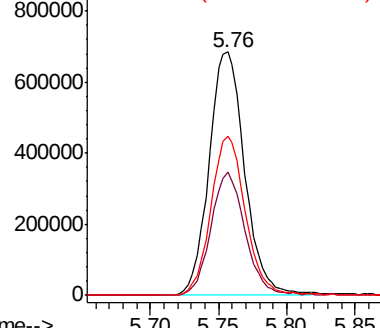
130 64.1 31.2 93.6



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: 0.050 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033534.D

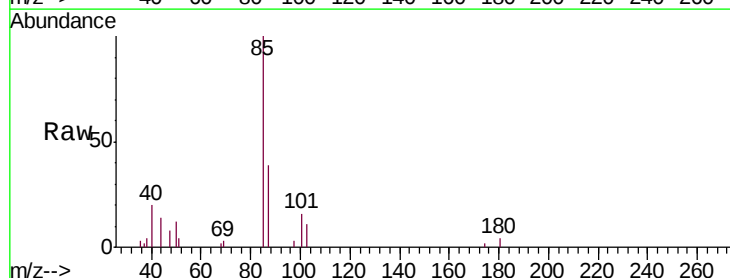
Acq: 4 Apr 2019 15:43

Tgt Ion: 85 Resp: 8976

Ion Ratio Lower Upper

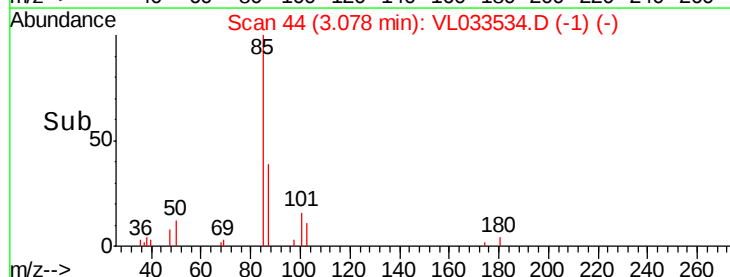
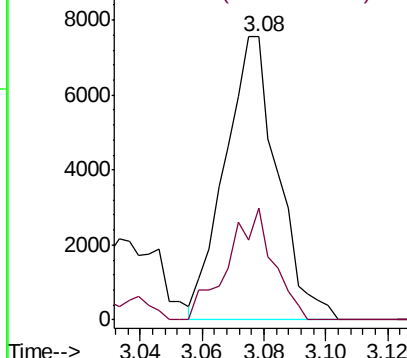
85 100

87 39.4 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

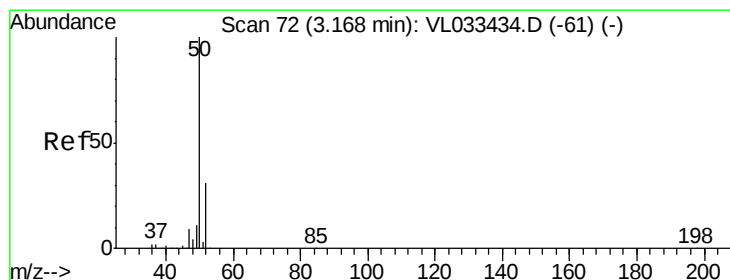
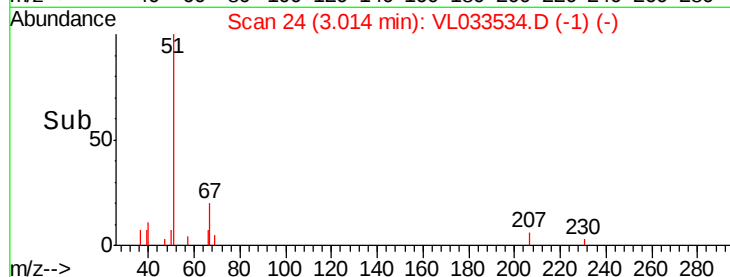
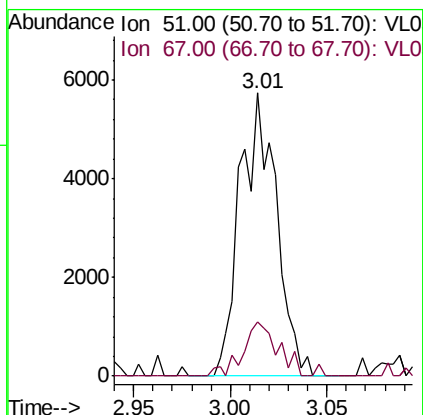
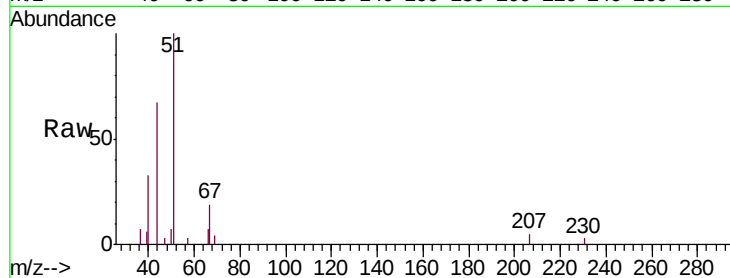




#3
Chlorodifluoromethane
Concen: 0.052 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033534.D
Acq: 4 Apr 2019 15:43

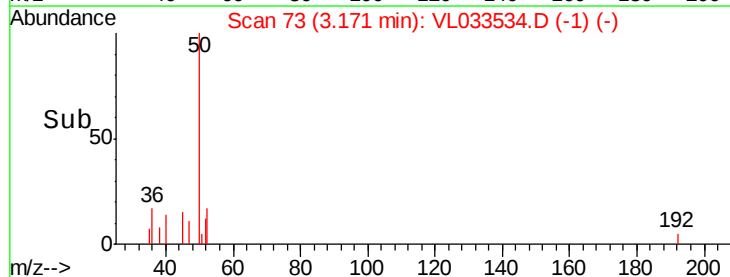
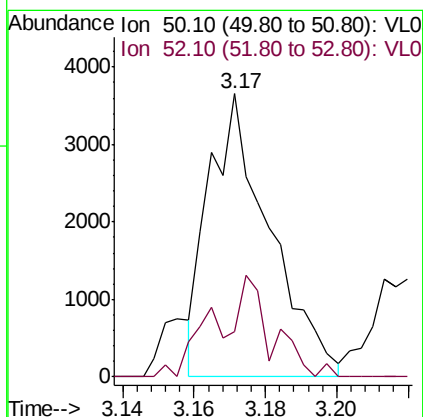
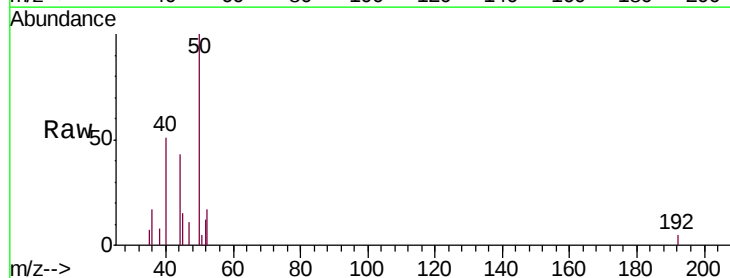
Instrument :
MSVOA_L
ClientSampleId :
QC040319 CAN 10284

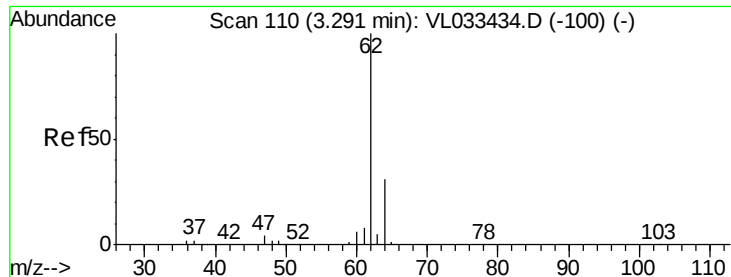
Tgt Ion: 51 Resp: 7486
Ion Ratio Lower Upper
51 100
67 19.0 15.7 23.5



#4
Chloromethane
Concen: 0.057 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033534.D
Acq: 4 Apr 2019 15:43

Tgt Ion: 50 Resp: 4304
Ion Ratio Lower Upper
50 100
52 16.7 25.0 37.6#





#5

Vinyl Chloride

Concen: 0.042 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033534.D

Acq: 4 Apr 2019 15:43

Instrument :

MSVOA_L

ClientSampleId :

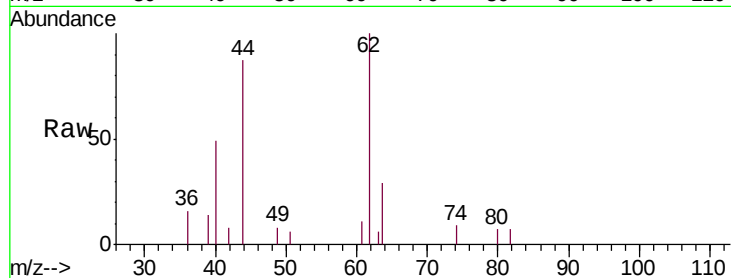
QC040319 CAN 10284

Tgt Ion: 62 Resp: 3127

Ion Ratio Lower Upper

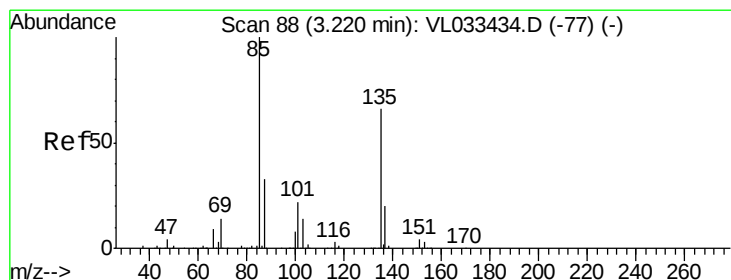
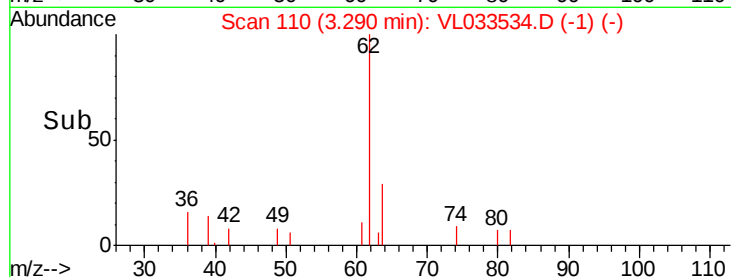
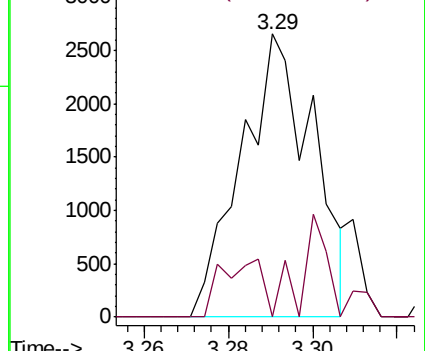
62 100

64 0.0 24.9 37.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.045 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033534.D

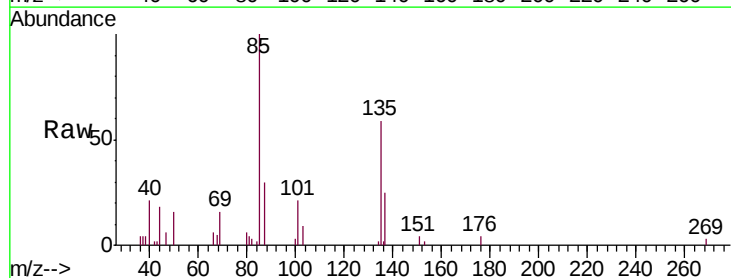
Acq: 4 Apr 2019 15:43

Tgt Ion: 85 Resp: 8614

Ion Ratio Lower Upper

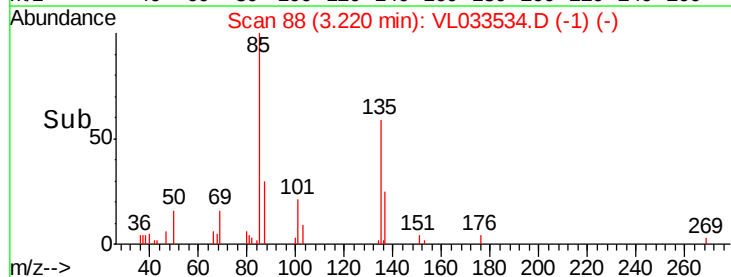
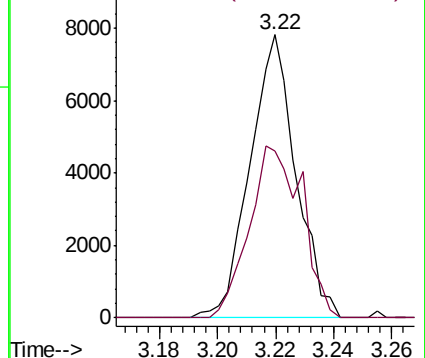
85 100

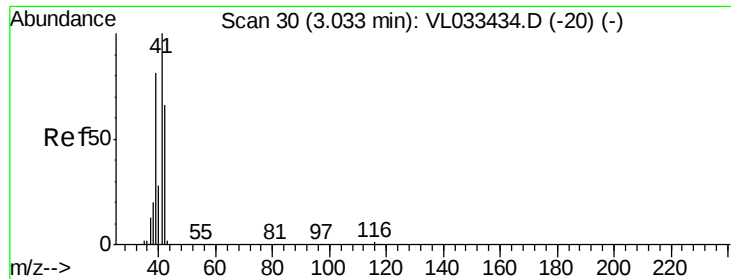
135 69.7 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.036 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033534.D

Acq: 4 Apr 2019 15:43

Instrument :

MSVOA_L

ClientSampleId :

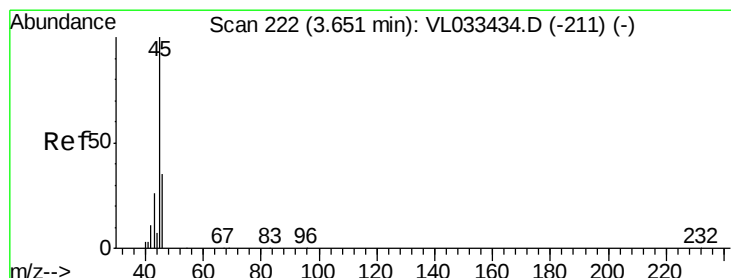
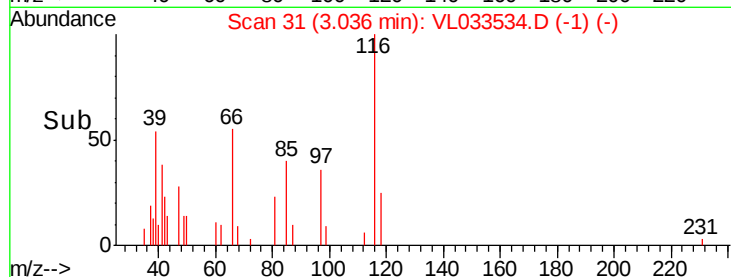
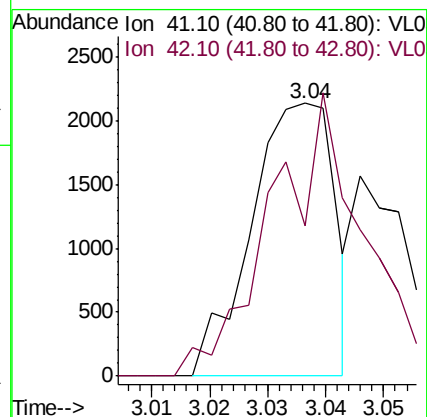
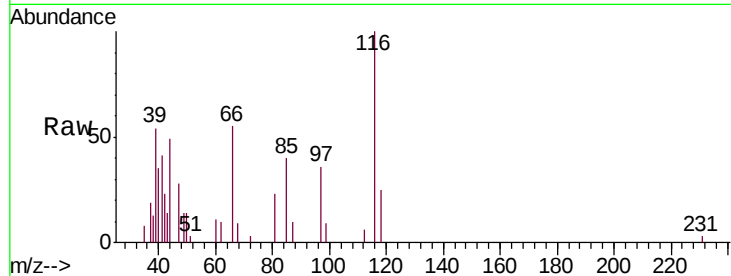
QC040319 CAN 10284

Tgt Ion: 41 Resp: 2146

Ion Ratio Lower Upper

41 100

42 117.0 53.9 80.9#



#13

Ethanol

Concen: 0.031 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033534.D

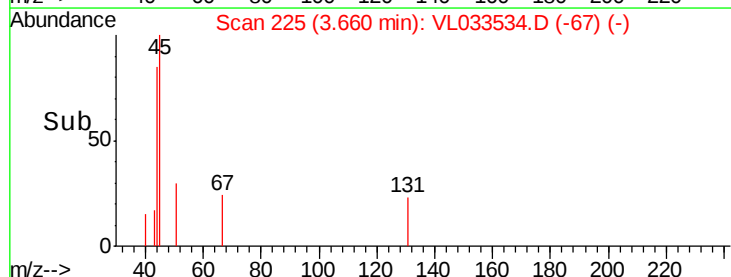
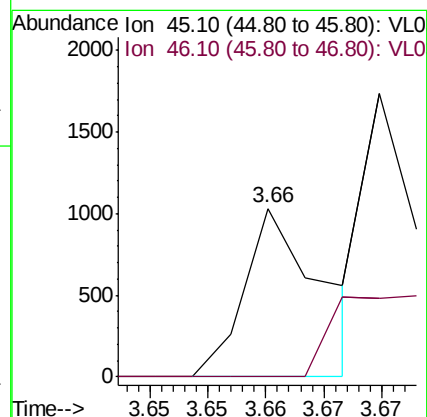
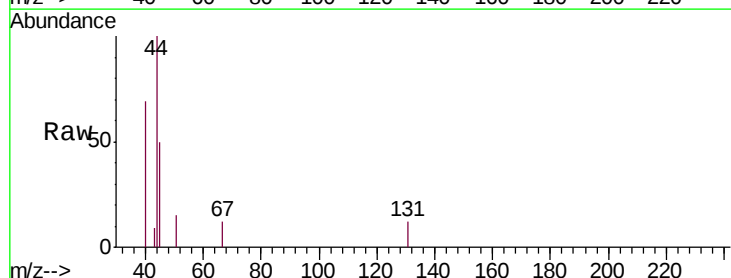
Acq: 4 Apr 2019 15:43

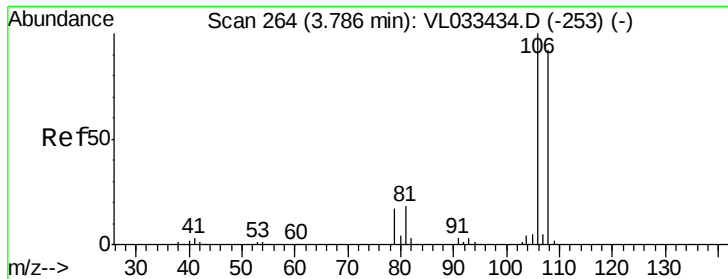
Tgt Ion: 45 Resp: 476

Ion Ratio Lower Upper

45 100

46 0.0 25.4 101.8#





#14

Bromoethene

Concen: 0.033 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033534.D

Acq: 4 Apr 2019 15:43

Instrument :

MSVOA_L

ClientSampleId :

QC040319 CAN 10284

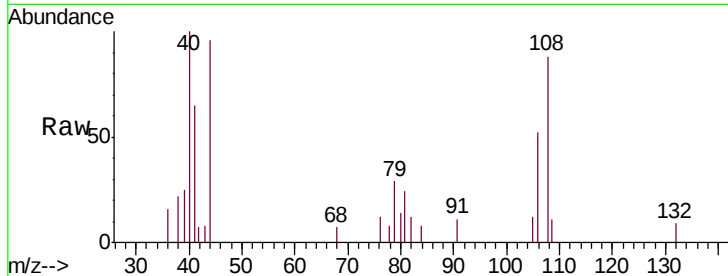
Tgt Ion:108 Resp: 1959

Ion Ratio Lower Upper

108 100

106 109.4 86.4 129.6

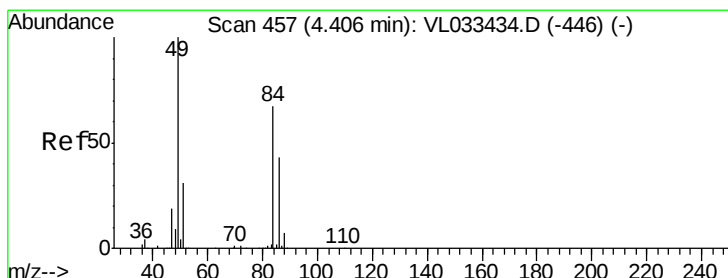
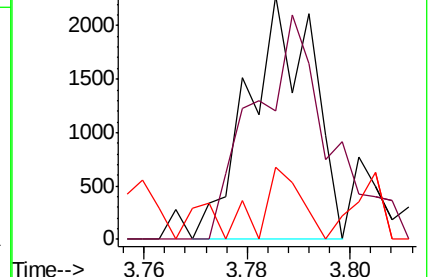
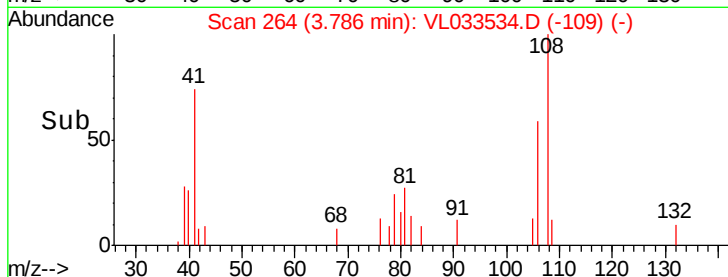
79 0.0 15.8 23.8#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



#20

Methylene Chloride

Concen: 0.295 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033534.D

Acq: 4 Apr 2019 15:43

Tgt Ion: 84 Resp: 18701

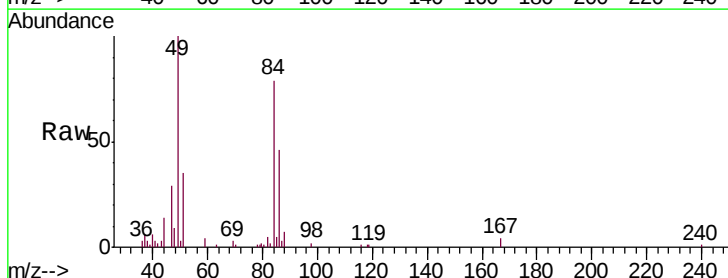
Ion Ratio Lower Upper

84 100

49 125.8 120.0 180.0

51 44.1 36.7 55.1

86 56.9 51.9 77.9

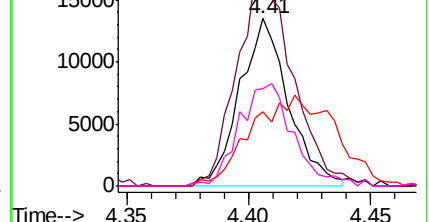
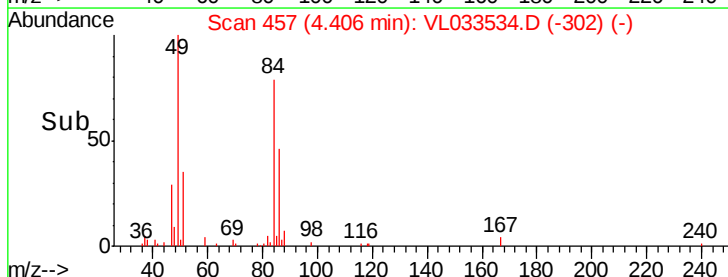


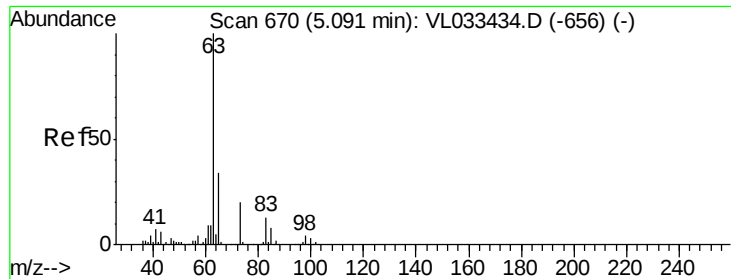
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#24

1,1-Dichloroethane

Concen: 0.036 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033534.D

Acq: 4 Apr 2019 15:43

Instrument :

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QC040319 CAN 10284

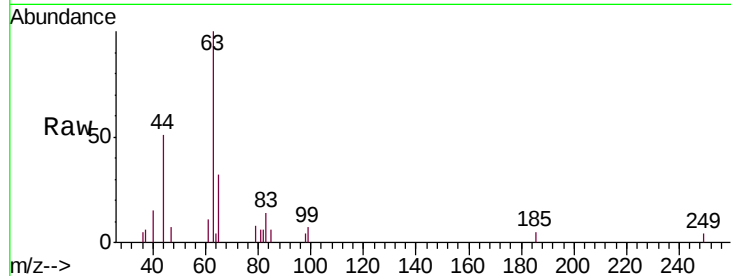
Tgt Ion: 63 Resp: 5754

Ion Ratio Lower Upper

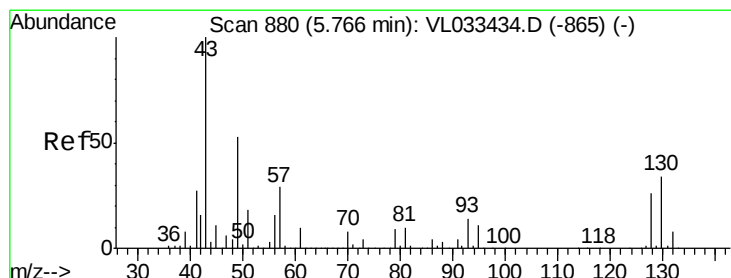
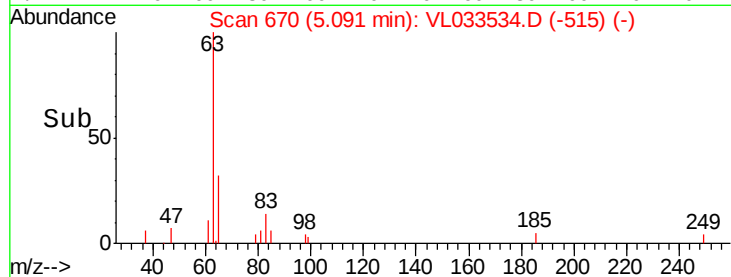
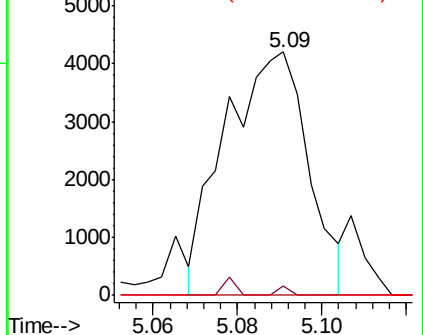
63 100

98 4.3 2.2 6.6

100 0.0 1.5 4.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.058 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033534.D

Acq: 4 Apr 2019 15:43

Tgt Ion: 43 Resp: 16018

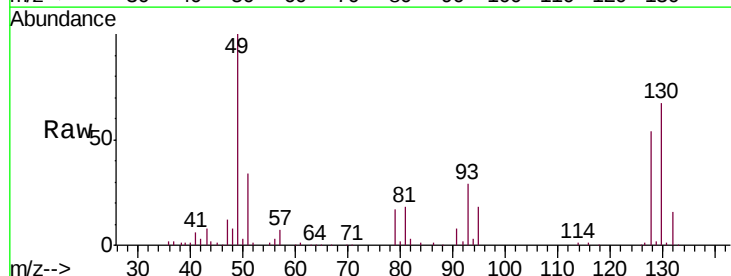
Ion Ratio Lower Upper

43 100

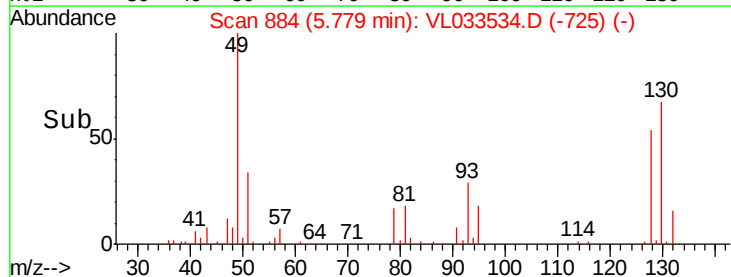
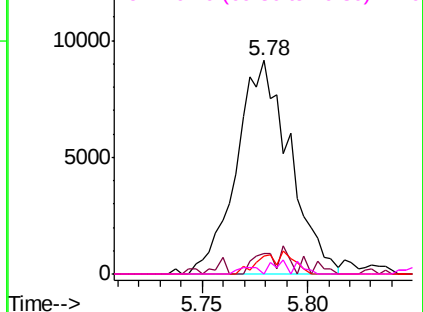
45 10.6 7.8 11.6

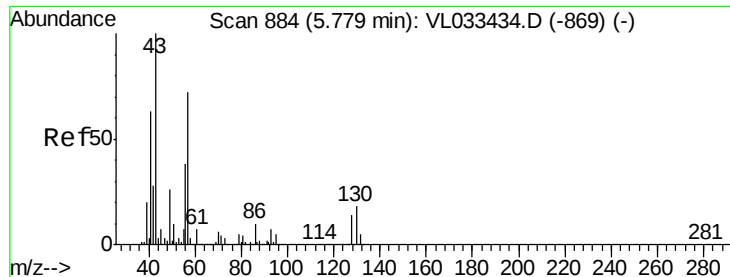
61 6.4 7.3 10.9#

70 4.0 5.6 8.4#



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: 0.086 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033534.D

Acq: 4 Apr 2019 15:43

Instrument :

MSVOA_L

ClientSampleId :

QC040319 CAN 10284

Tgt Ion: 57 Resp: 10604

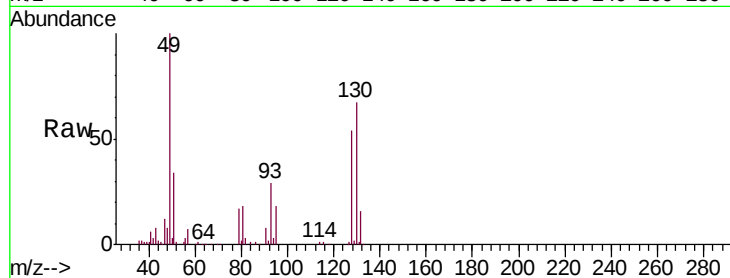
Ion Ratio Lower Upper

57 100

41 110.0 70.7 106.1#

43 157.4 182.6 274.0#

56 61.2 42.0 63.0

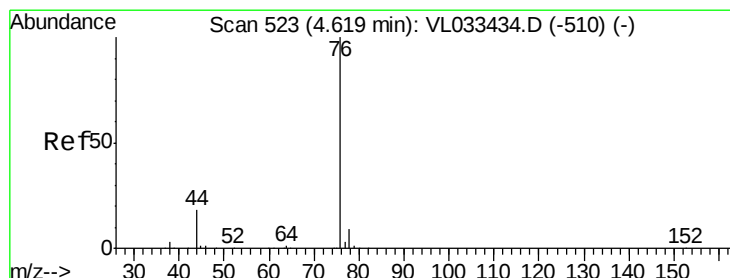
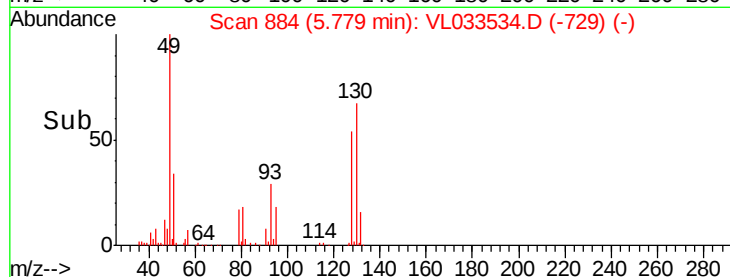
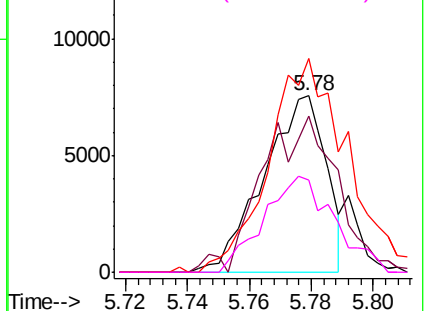


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.034 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033534.D

Acq: 4 Apr 2019 15:43

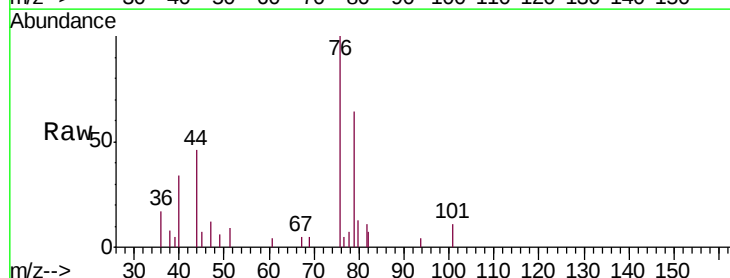
Tgt Ion: 76 Resp: 4943

Ion Ratio Lower Upper

76 100

44 0.0 14.8 22.2#

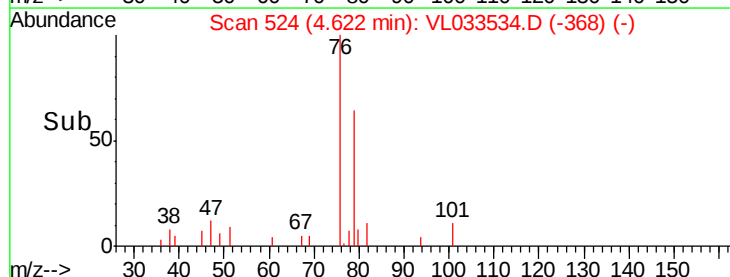
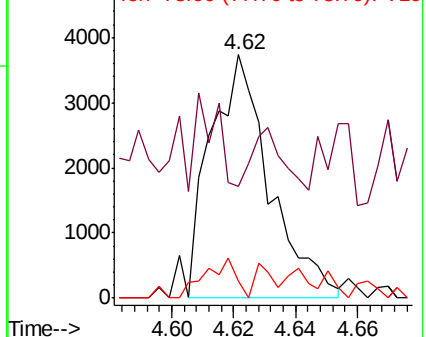
78 9.3 7.6 11.4

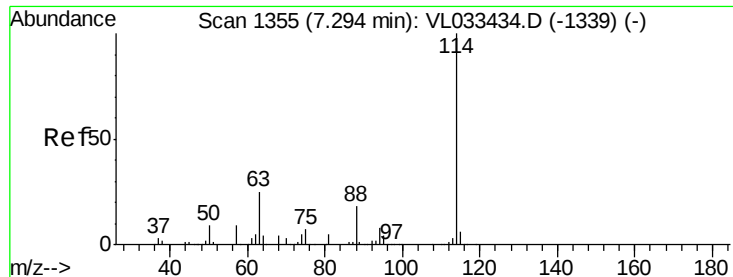


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

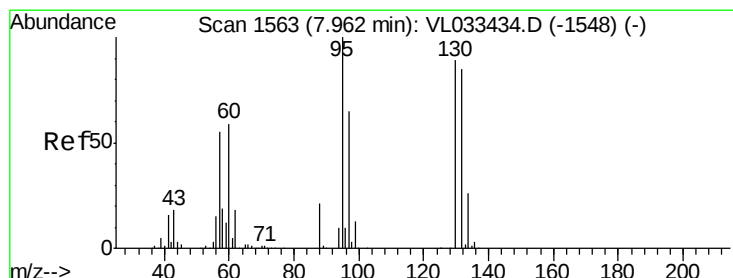
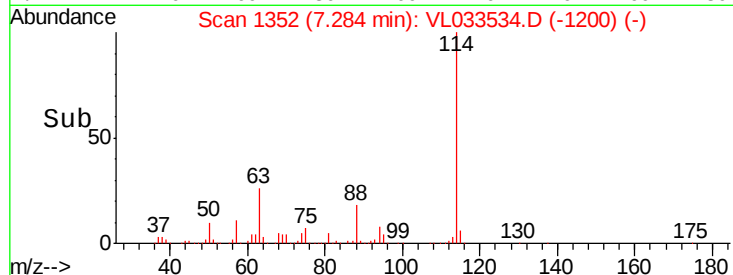
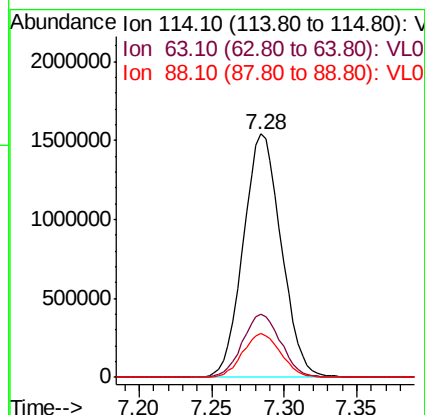
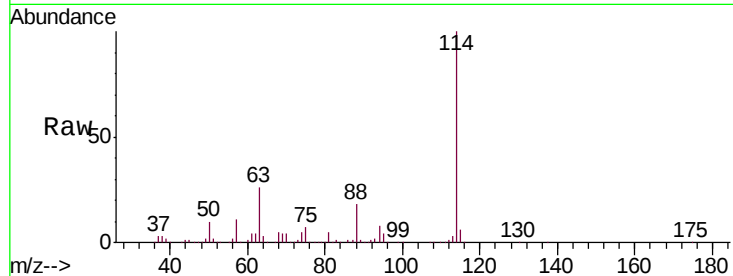




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033534.D
 Acq: 4 Apr 2019 15:43

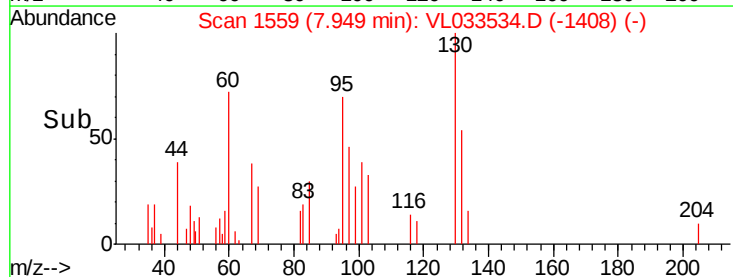
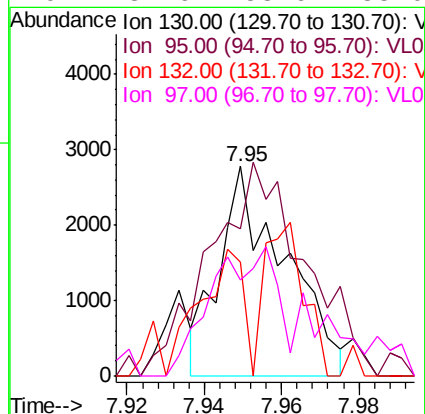
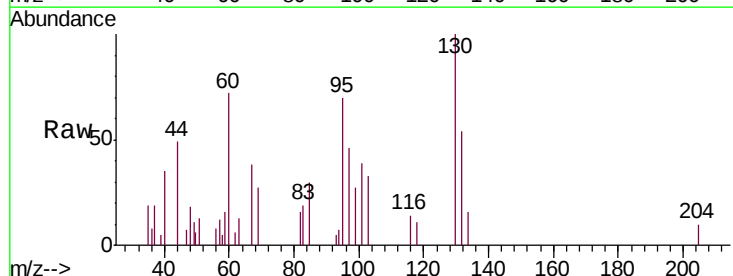
Instrument :
 MSVOA_L
 ClientSampleId :
 QC040319 CAN 10284

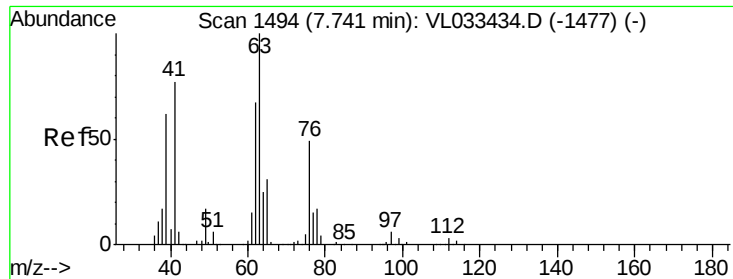
Tgt Ion:114 Resp: 2815620
 Ion Ratio Lower Upper
 114 100
 63 26.0 21.5 32.3
 88 18.1 14.5 21.7



#38
 Trichloroethene
 Concen: 0.037 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: VL033534.D
 Acq: 4 Apr 2019 15:43

Tgt Ion:130 Resp: 3260
 Ion Ratio Lower Upper
 130 100
 95 49.7 89.8 134.8#
 132 62.2 76.6 115.0#
 97 31.6 58.6 88.0#

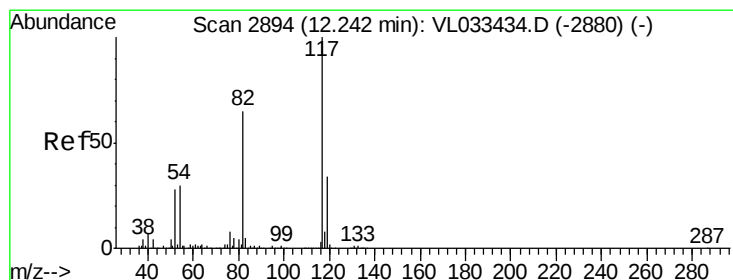
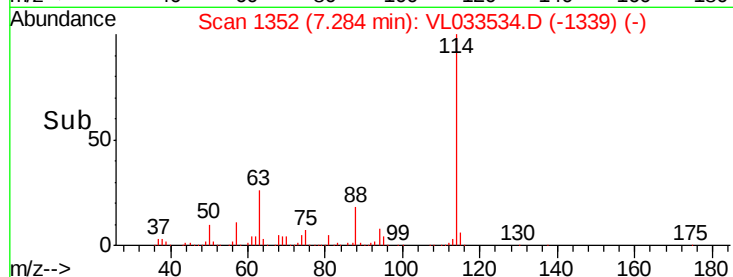
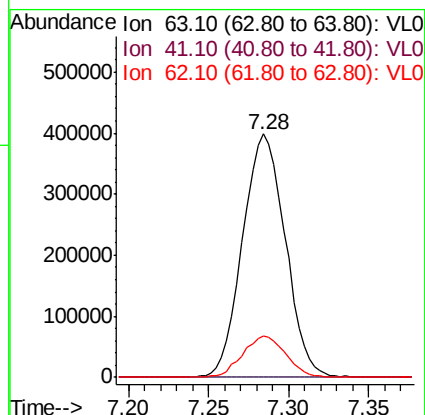
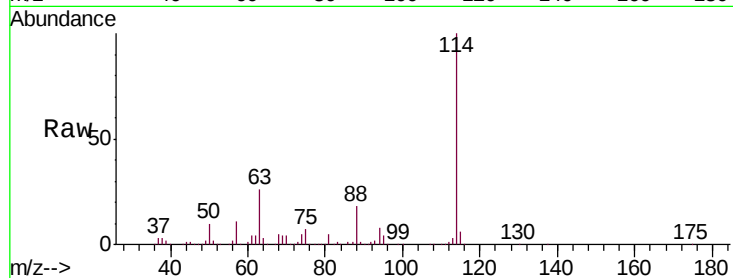




#39
 1,2-Dichloropropane
 Concen: 7.860 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.46 min
 Lab File: VL033534.D
 Acq: 4 Apr 2019 15:43

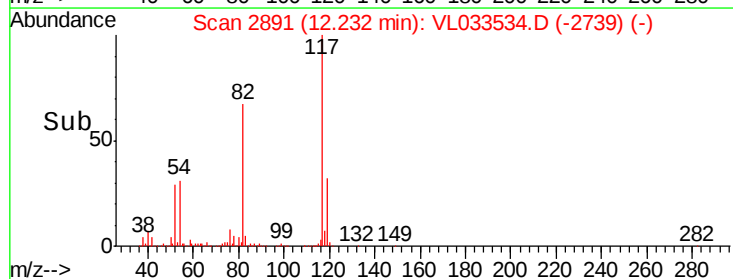
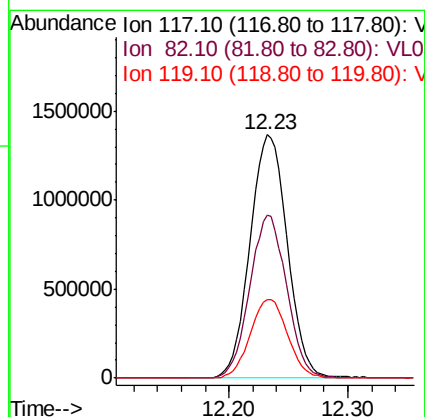
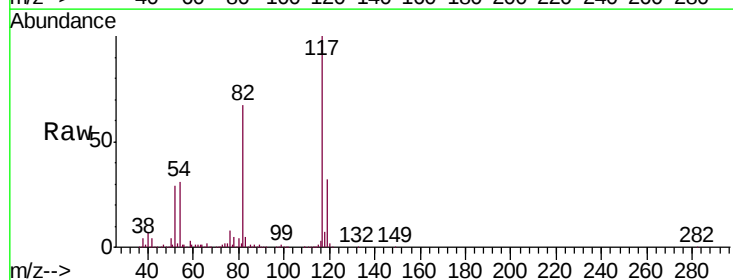
Instrument :
 MSVOA_L
 ClientSampleId :
 QC040319 CAN 10284

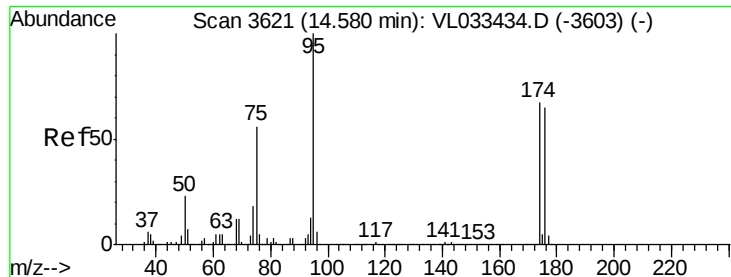
Tgt Ion: 63 Resp: 727421
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 17.2 54.0 81.0#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.23 min Scan# 2891
 Delta R.T. -0.01 min
 Lab File: VL033534.D
 Acq: 4 Apr 2019 15:43

Tgt Ion: 117 Resp: 2968859
 Ion Ratio Lower Upper
 117 100
 82 66.5 51.5 77.3
 119 32.5 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.003 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033534.D

Acq: 4 Apr 2019 15:43

Instrument :

MSVOA_L

ClientSampleId :

QC040319 CAN 10284

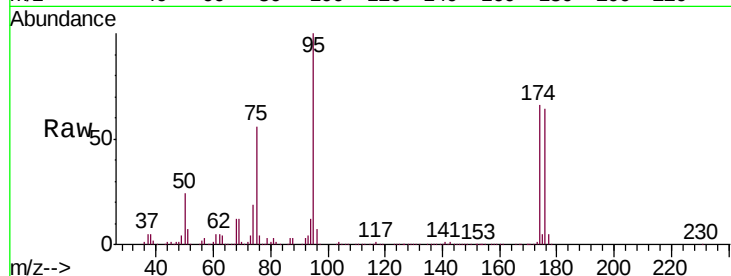
Tgt Ion: 95 Resp: 2328267

Ion Ratio Lower Upper

95 100

174 66.9 52.9 79.3

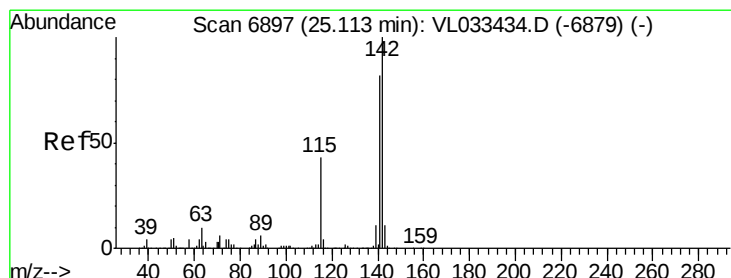
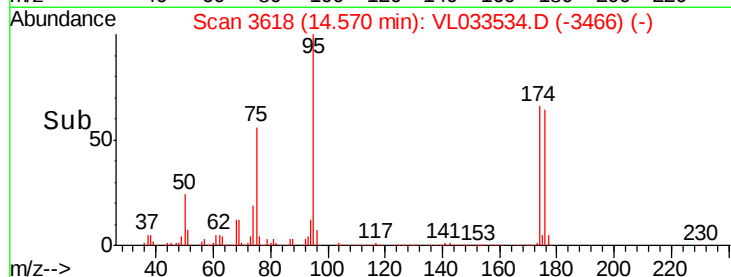
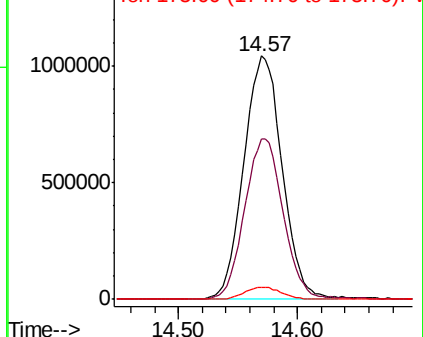
175 4.8 3.8 5.6



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



#80

Naphthalene, 2-methyl-

Concen: 0.069 ppbv

RT: 25.11 min Scan# 6896

Delta R.T. -0.00 min

Lab File: VL033534.D

Acq: 4 Apr 2019 15:43

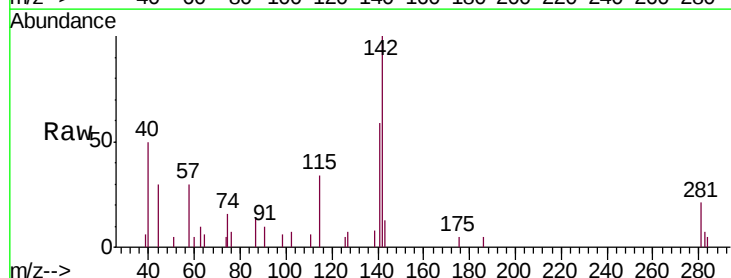
Tgt Ion: 142 Resp: 7774

Ion Ratio Lower Upper

142 100

141 88.0 66.6 99.8

115 48.1 34.4 51.6



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

