

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070518\
 Data File : VL032206.D
 Acq On : 5 Jul 2018 16:44
 Operator : SY/AP
 Sample : 0C061318 CAN 10444
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

Quant Time: Jul 06 04:28:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1545432	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3904086	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.33	117	3907032	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3058209	10.24	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.13	85	12978	0.06	ppbv	100
4) Chloromethane	3.23	50	13176	0.13	ppbv #	77
5) Vinyl Chloride	3.35	62	11758	0.12	ppbv	89
6) Bromomethane	3.58	94	5270	0.09	ppbv	97
7) Chloroethane	3.66	64	1860	0.05	ppbv #	85
8) Dichlorotetrafluoroethane	3.28	85	24272	0.11	ppbv	87
9) Propene	3.09	41	10197	0.12	ppbv	99
11) Trichlorofluoromethane	4.07	101	25243	0.11	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.62	101	20322	0.14	ppbv	99
14) Bromoethene	3.85	108	3796	0.05	ppbv #	12
15) Acetone	3.98	43	42022	0.23	ppbv	90
16) 1,3-Butadiene	3.42	39	6232	0.07	ppbv #	62
17) tert-Butyl alcohol	4.46	59	11466	0.10	ppbv #	69
18) 1,1-Dichloroethene	4.42	96	6415	0.09	ppbv #	72
19) Isopropyl Alcohol	4.11	45	11271	0.08	ppbv #	49
20) Methylene Chloride	4.48	84	25334	0.38	ppbv #	86
21) Allyl Chloride	4.54	41	14072	0.11	ppbv #	56
22) trans-1,2-Dichloroethene	5.04	96	6697	0.09	ppbv	80
24) 1,1-Dichloroethane	5.16	63	17447	0.08	ppbv	96
25) Ethyl Acetate	5.86	43	45924	0.12	ppbv #	95
26) Hexane	5.86	57	29869	0.17	ppbv #	76
27) Carbon Disulfide	4.69	76	15796	0.09	ppbv #	1
28) Methyl tert-Butyl Ether	5.21	73	21282	0.07	ppbv #	79
29) Chloroform	5.92	83	29237	0.12	ppbv	94
30) Cyclohexane	7.33	84	7979	0.05	ppbv #	1
31) cis-1,2-Dichloroethene	5.72	61	8338	0.05	ppbv	88
32) 1,1,1-Trichloroethane	6.70	97	13475	0.05	ppbv #	17
34) 2-Butanone	5.43	43	29298	0.12	ppbv	96
36) Benzene	7.09	78	47086	0.12	ppbv #	84
37) 1,2-Dichloroethane	6.49	62	23078	0.12	ppbv	98
38) Trichloroethene	8.04	130	16572	0.11	ppbv #	85
39) 1,2-Dichloropropane	7.82	63	12758	0.09	ppbv #	77
42) Bromodichloromethane	8.00	83	19612	0.07	ppbv	95
43) Methyl Methacrylate	8.23	69	6984	0.04	ppbv #	1
44) 2,2,4-Trimethylpentane	8.08	57	66755	0.10	ppbv	91
46) cis-1,3-Dichloropropene	8.93	75	12870	0.06	ppbv #	94
47) 1,1,2-Trichloroethane	9.70	97	7450	0.05	ppbv #	61
48) Dibromochloromethane	10.54	129	10373	0.04	ppbv #	8
51) 2-Hexanone	10.39	43	15718	0.05	ppbv #	25
52) Tetrachloroethene	11.47	164	17476	0.13	ppbv #	86
53) Toluene	10.04	91	40369	0.09	ppbv	95

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

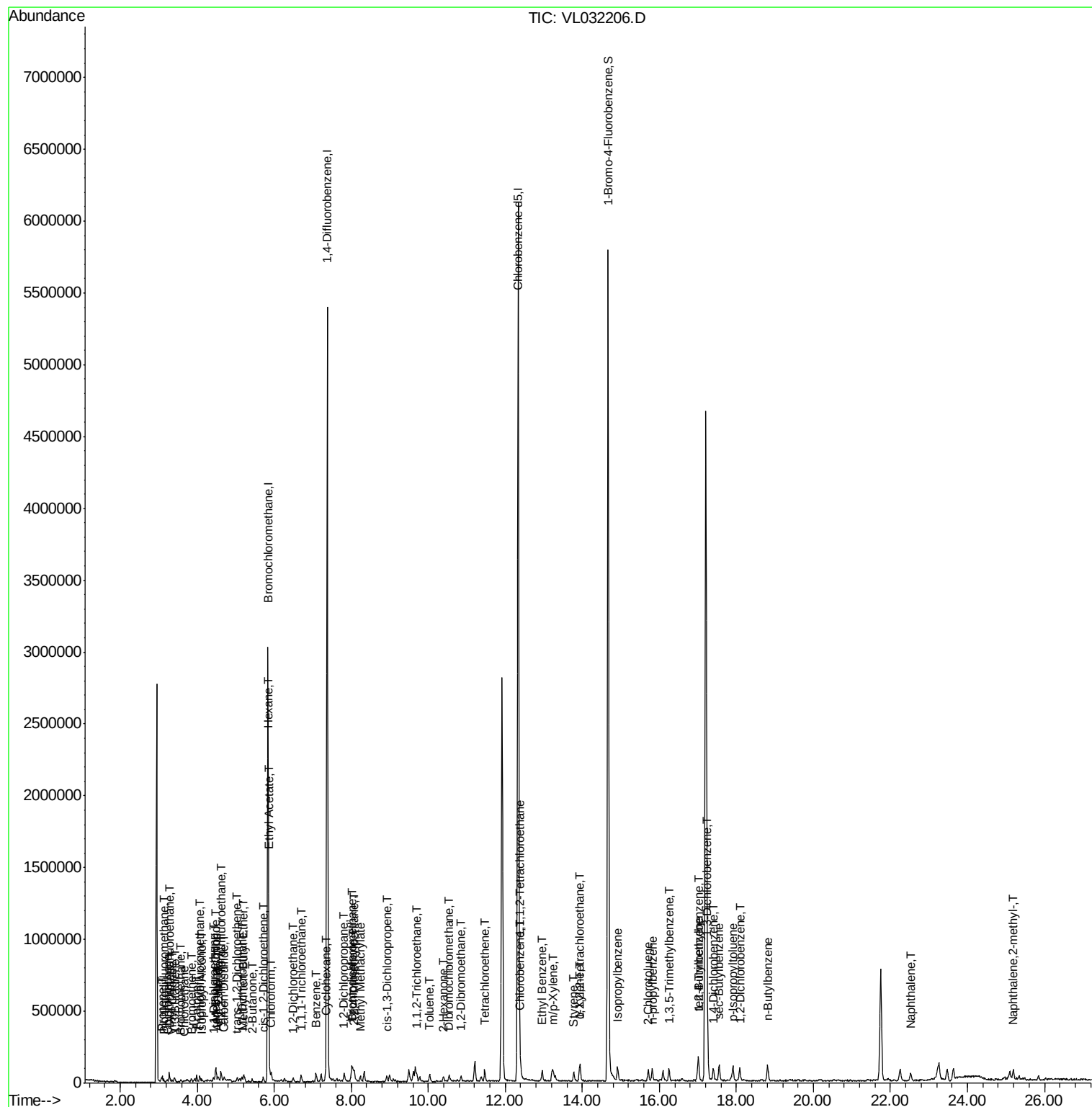
54) 1,2-Dibromoethane	10.85	107	19283	0.08	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.38	131	8592	0.05	ppbv #	1
57) Chlorobenzene	12.40	112	21752	0.06	ppbv #	87
58) Ethyl Benzene	12.96	91	63219	0.10	ppbv	95
59) m/p-Xylene	13.24	91	19718	0.04	ppbv #	29
60) o-Xylene	13.94	91	47661	0.09	ppbv	96
61) Styrene	13.77	104	27069	0.07	ppbv #	49
62) Isopropylbenzene	14.92	105	73956	0.10	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.93	83	39006	0.10	ppbv	91
64) n-propylbenzene	15.81	120	7657	0.04	ppbv #	1
65) tert-Butylbenzene	17.00	119	60568	0.09	ppbv #	77
67) sec-Butylbenzene	17.56	105	94138	0.09	ppbv	100
69) p-Isopropyltoluene	17.90	119	31457	0.04	ppbv #	40
70) n-Butylbenzene	18.81	91	53450	0.06	ppbv #	66
71) 2-Chlorotoluene	15.71	91	55153	0.09	ppbv	98
73) 1,3,5-Trimethylbenzene	16.25	105	62807	0.10	ppbv	92
74) 1,2,4-Trimethylbenzene	17.02	105	71147	0.12	ppbv	94
75) 1,3-Dichlorobenzene	17.26	146	27709	0.08	ppbv #	17
76) 1,4-Dichlorobenzene	17.39	146	15811	0.04	ppbv #	24
77) 1,2-Dichlorobenzene	18.08	146	19323	0.05	ppbv #	23
79) Naphthalene	22.53	128	41469	0.07	ppbv #	95
80) Naphthalene,2-methyl-	25.19	142	40616	0.20	ppbv	96

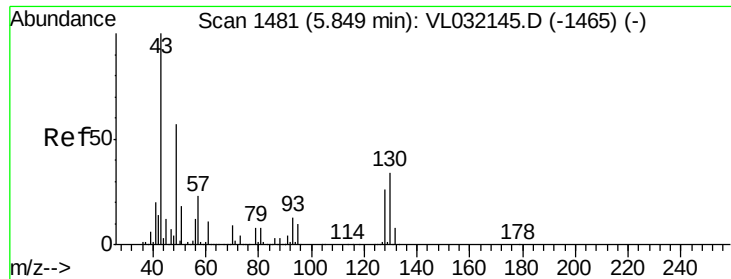
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.02 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

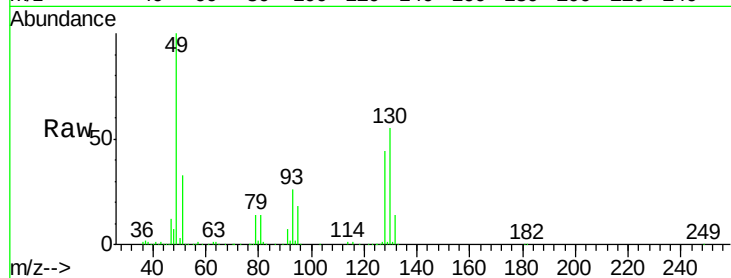
Tot Ion: 49 Resp: 1545432

Ion Ratio Lower Upper

49 100

128 43.9 23.4 70.0

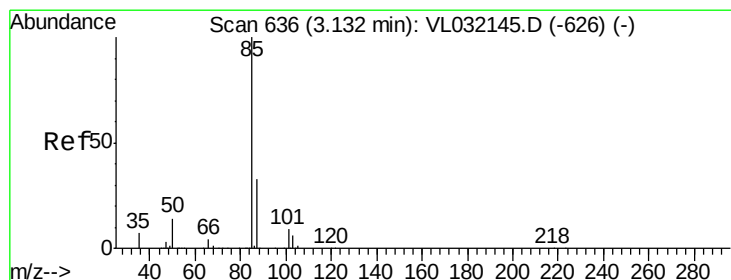
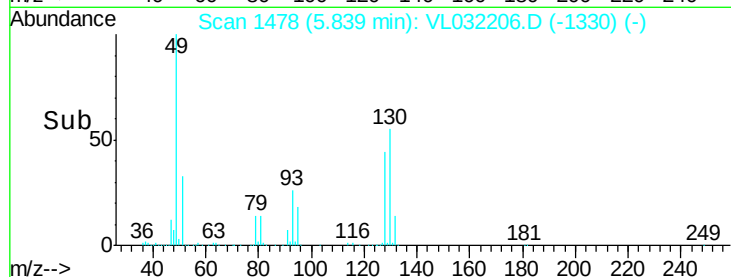
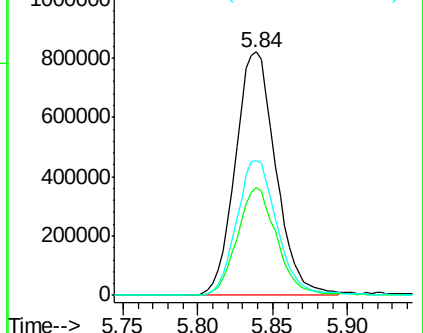
130 56.0 30.3 90.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.06 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.01 min

Lab File: VL032206.D

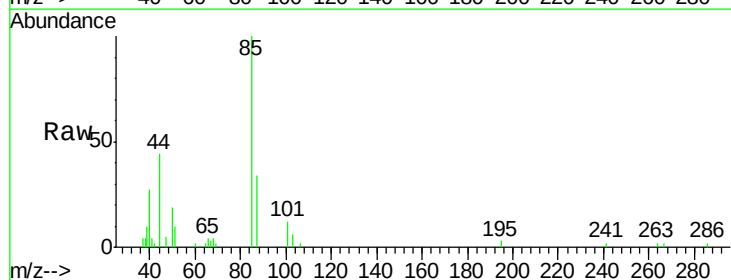
Acq: 5 Jul 2018 16:44

Tgt Ion: 85 Resp: 12978

Ion Ratio Lower Upper

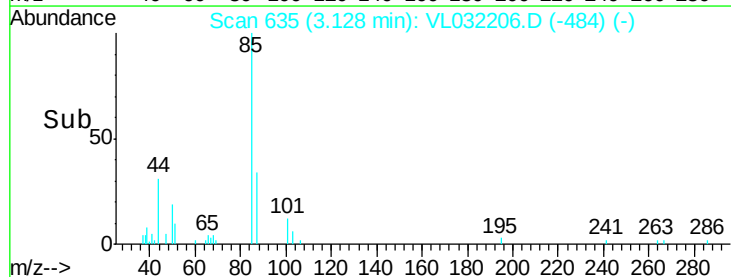
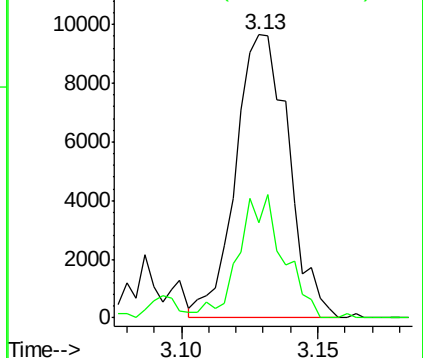
85 100

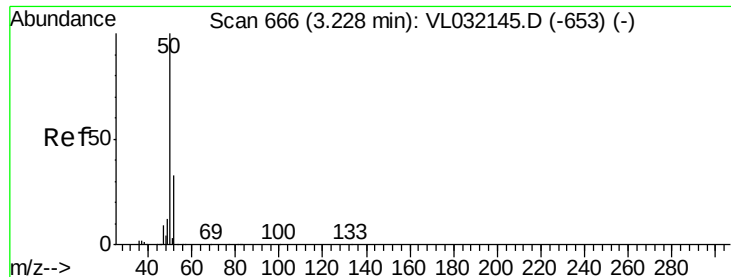
87 33.6 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.13 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

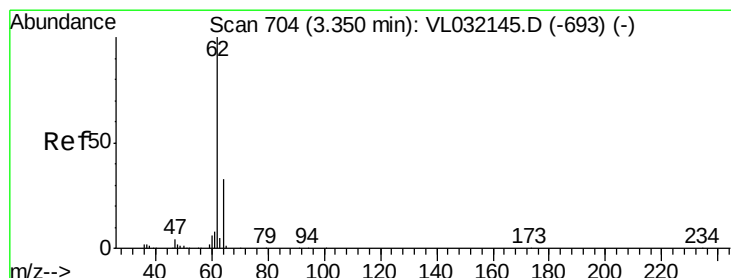
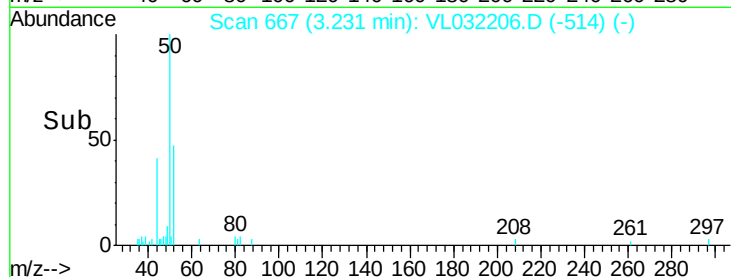
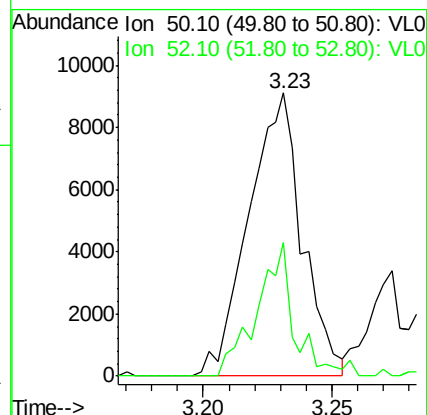
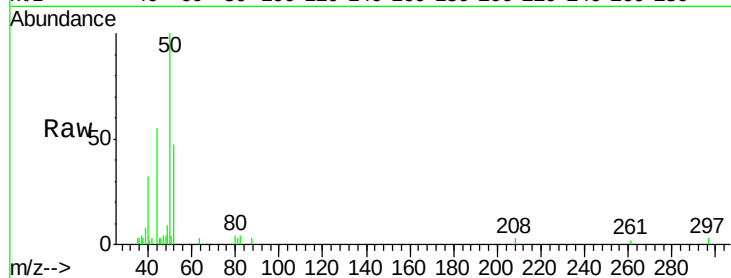
QC061318 CAN 10444

Tot Ion: 50 Resp: 13176

Ion Ratio Lower Upper

50 100

52 45.6 26.0 39.0#



#5

Vinyl Chloride

Concen: 0.12 ppbv

RT: 3.35 min Scan# 703

Delta R.T. -0.01 min

Lab File: VL032206.D

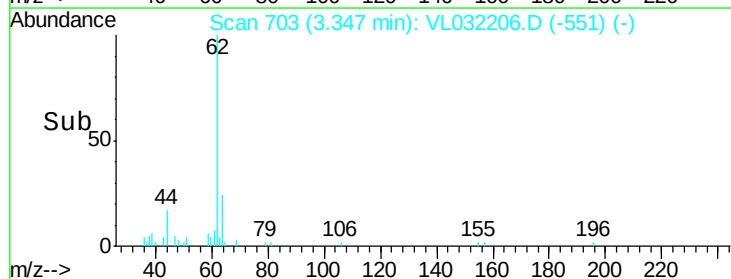
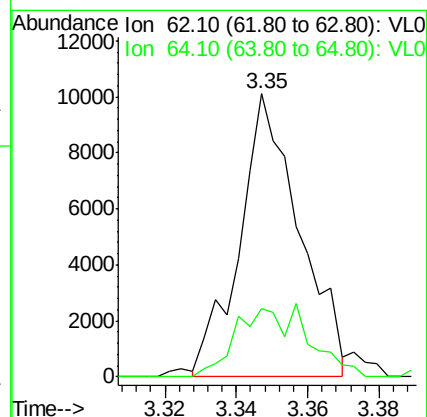
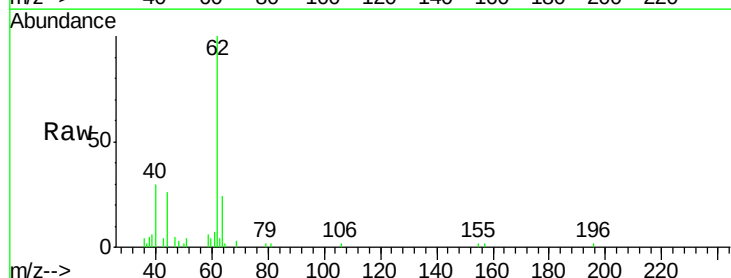
Acq: 5 Jul 2018 16:44

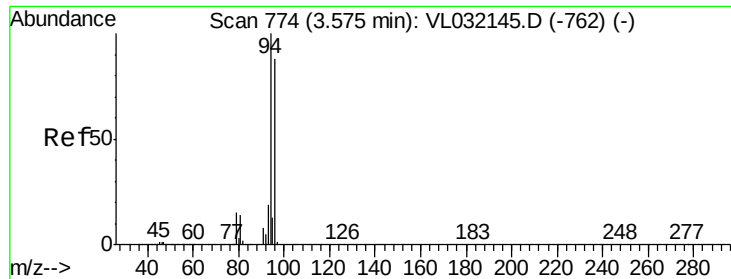
Tgt Ion: 62 Resp: 11758

Ion Ratio Lower Upper

62 100

64 26.2 26.1 39.1





#6

Bromomethane

Concen: 0.09 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

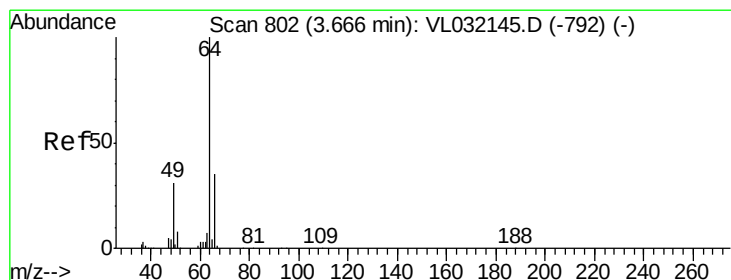
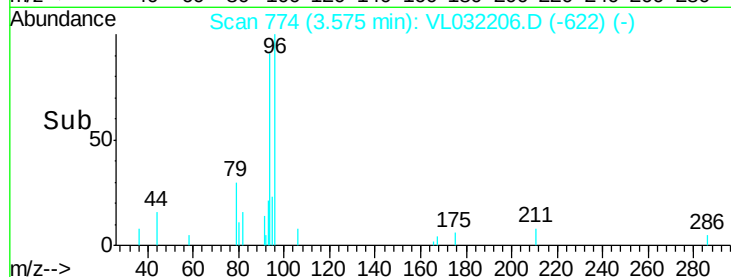
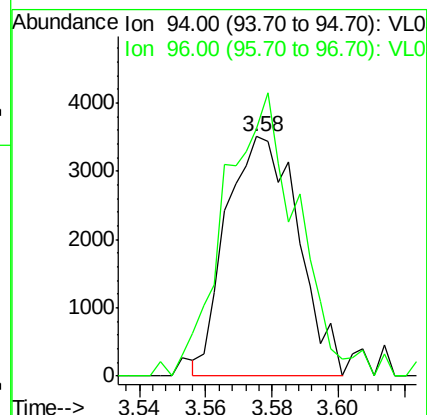
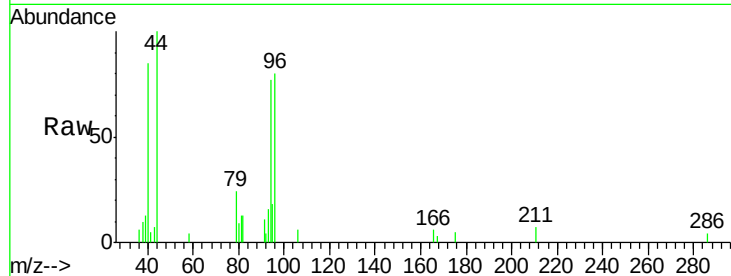
QC061318 CAN 10444

Tot Ion: 94 Resp: 5270

Ion Ratio Lower Upper

94 100

96 96.3 74.7 112.1



#7

Chloroethane

Concen: 0.05 ppbv

RT: 3.66 min Scan# 799

Delta R.T. -0.02 min

Lab File: VL032206.D

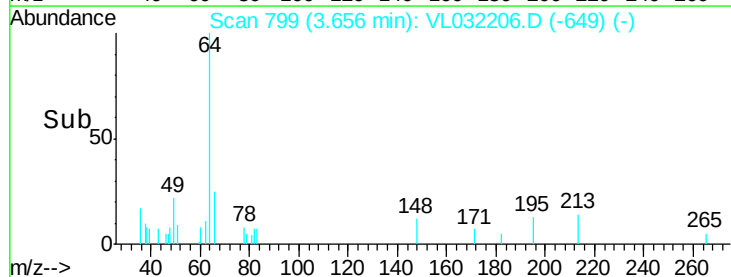
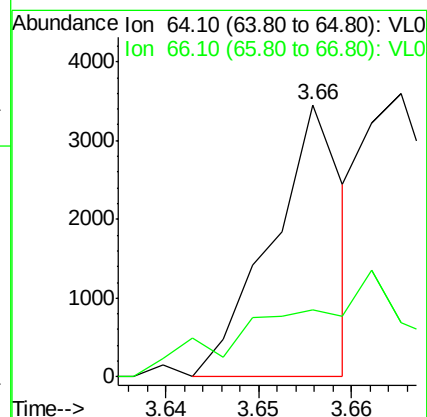
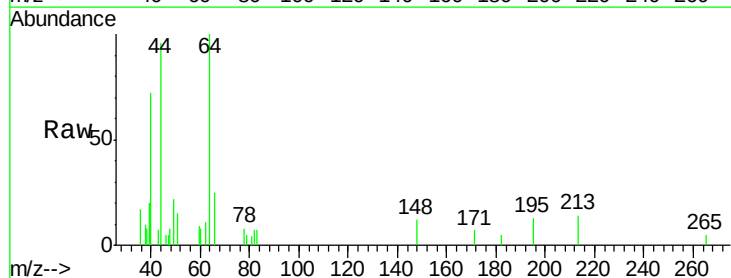
Acq: 5 Jul 2018 16:44

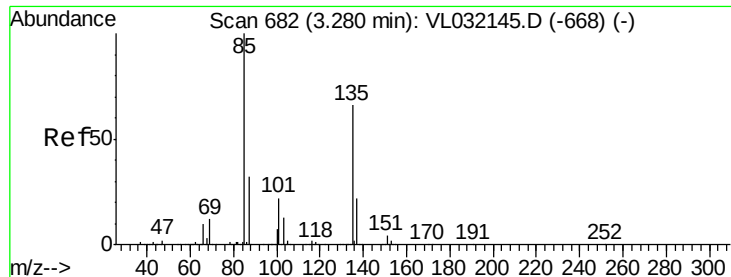
Tgt Ion: 64 Resp: 1860

Ion Ratio Lower Upper

64 100

66 24.8 26.9 40.3#





#8

Dichlorotetrafluoroethane

Concen: 0.11 ppbv

RT: 3.28 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

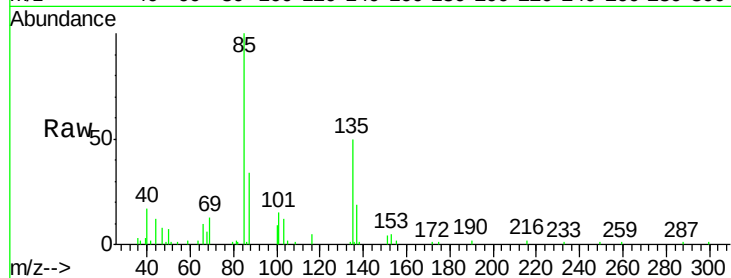
QC061318 CAN 10444

Tot Ion: 85 Resp: 24272

Ion Ratio Lower Upper

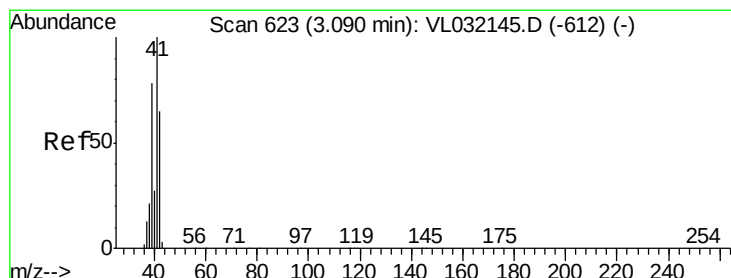
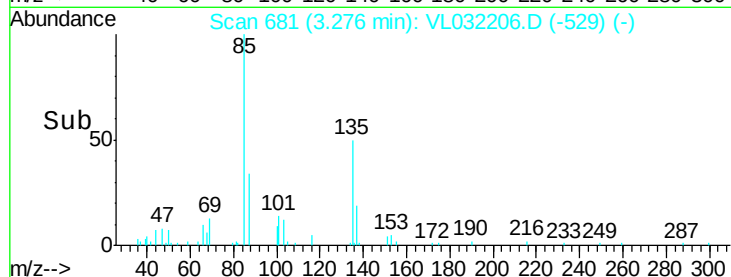
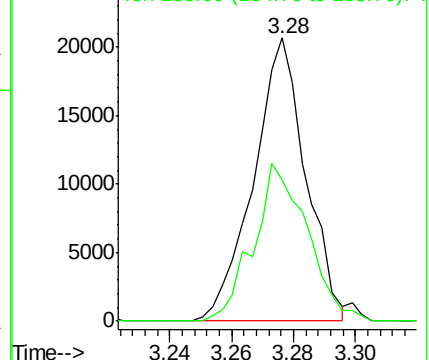
85 100

135 57.6 54.6 82.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.12 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032206.D

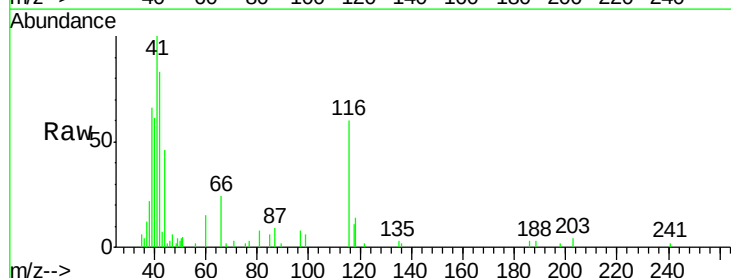
Acq: 5 Jul 2018 16:44

Tgt Ion: 41 Resp: 10197

Ion Ratio Lower Upper

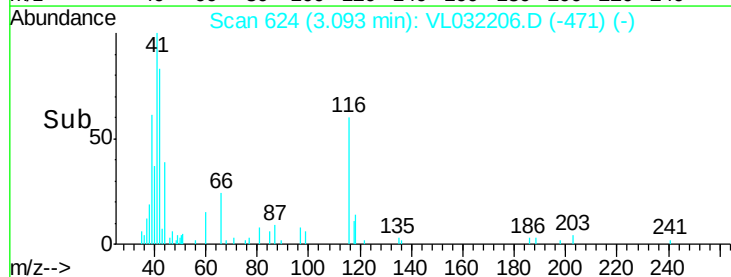
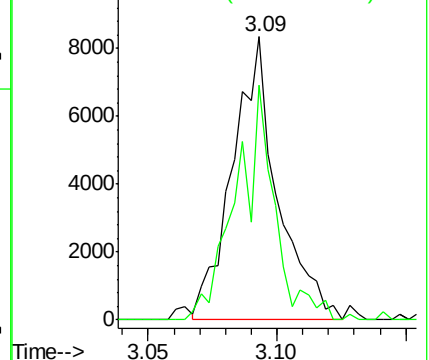
41 100

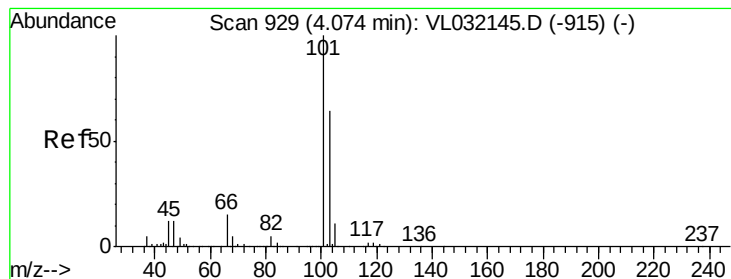
42 71.2 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.11 ppbv

RT: 4.07 min Scan# 928

Delta R.T. -0.01 min

Lab File: VL032206.D

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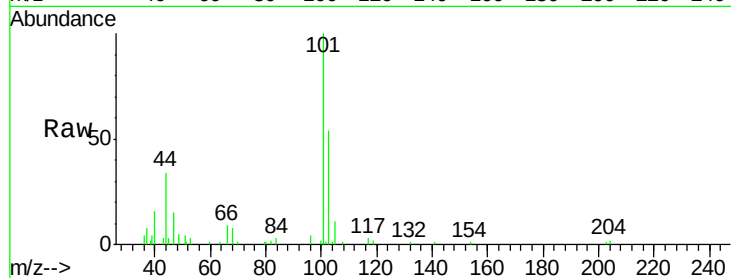
QC061318 CAN 10444

Tot Ion:101 Resp: 25243

Ion Ratio Lower Upper

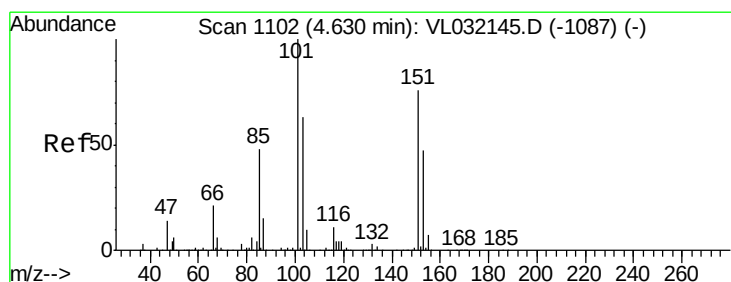
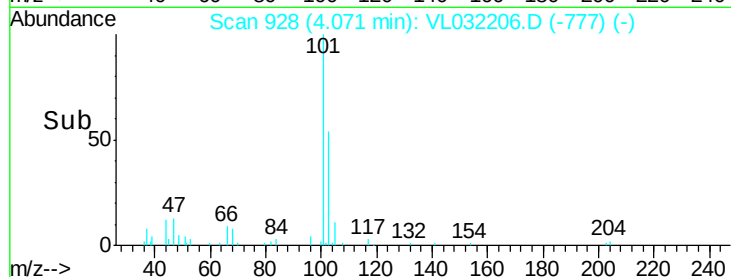
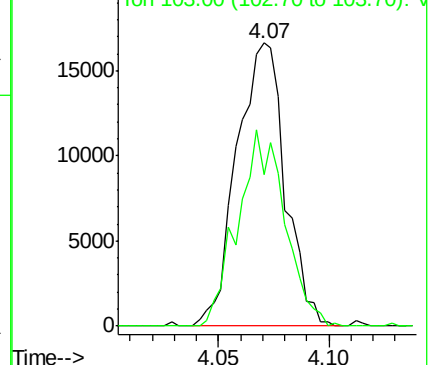
101 100

103 53.0 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.14 ppbv

RT: 4.62 min Scan# 1099

Delta R.T. -0.02 min

Lab File: VL032206.D

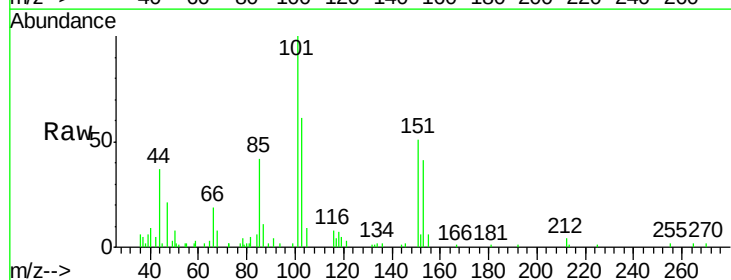
Acq: 5 Jul 2018 16:44

Tgt Ion:101 Resp: 20322

Ion Ratio Lower Upper

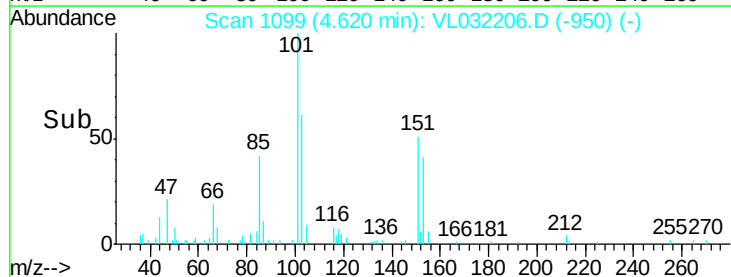
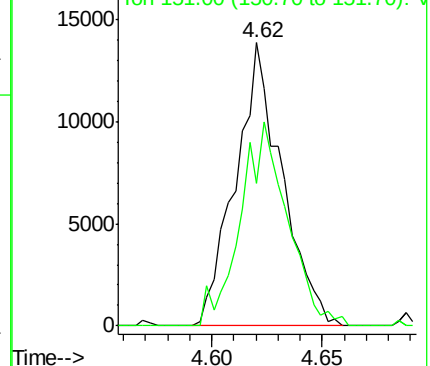
101 100

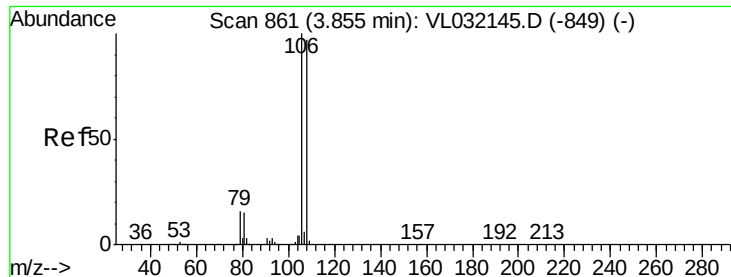
151 73.0 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.05 ppbv

RT: 3.85 min Scan# 860

Delta R.T. -0.01 min

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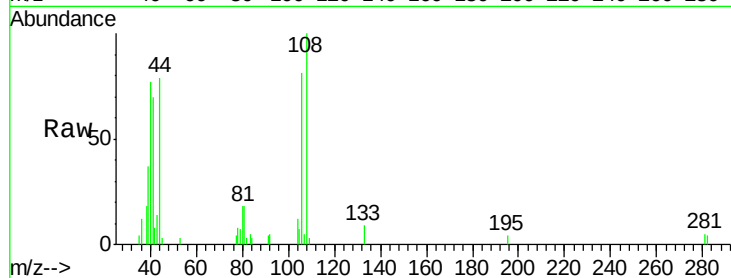
Tot Ion:108 Resp: 3796

Ion Ratio Lower Upper

108 100

106 199.8 86.3 129.5#

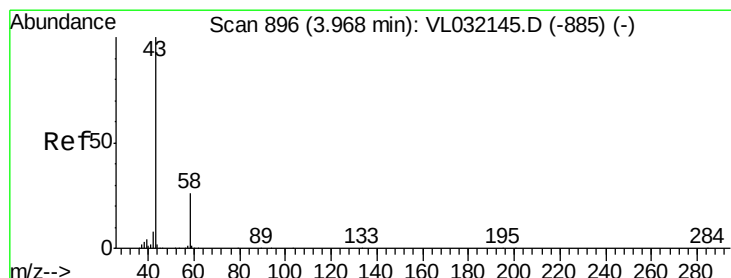
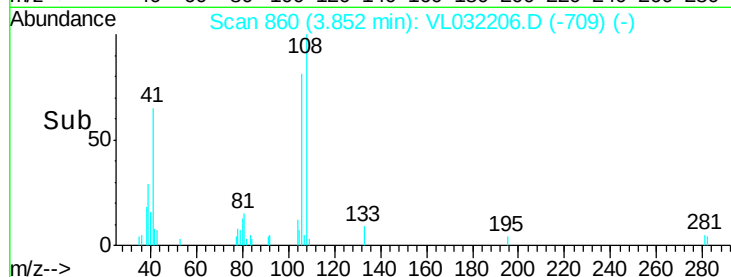
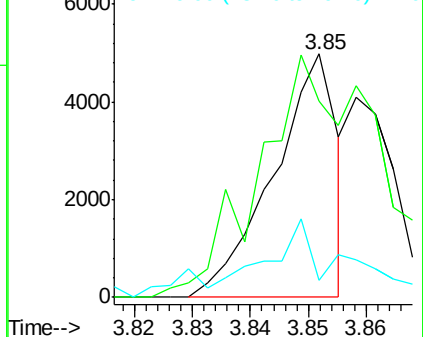
79 54.5 12.7 19.1#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



#15

Acetone

Concen: 0.23 ppbv

RT: 3.98 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL032206.D

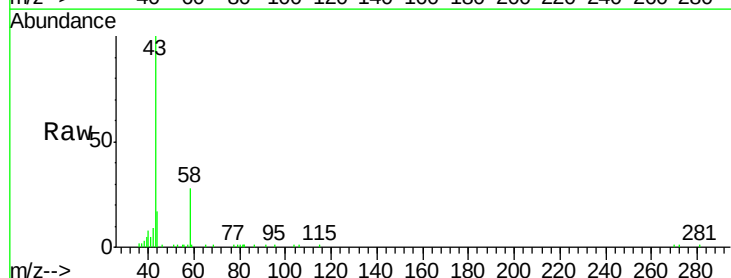
Acq: 5 Jul 2018 16:44

Tgt Ion: 43 Resp: 42022

Ion Ratio Lower Upper

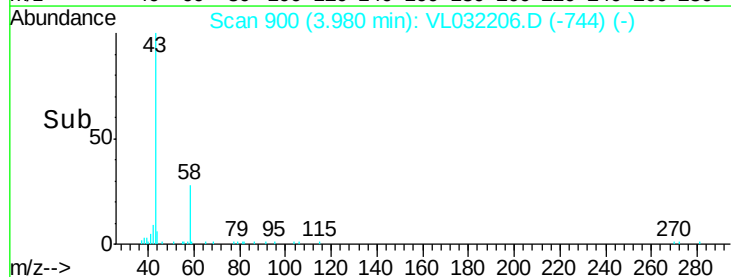
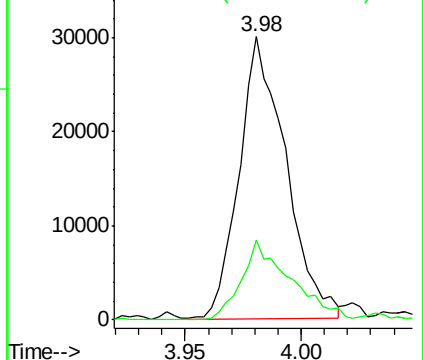
43 100

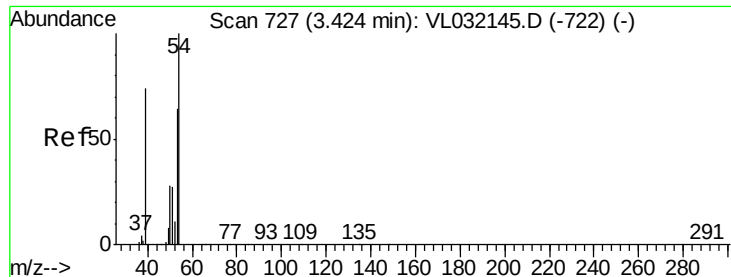
58 31.8 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

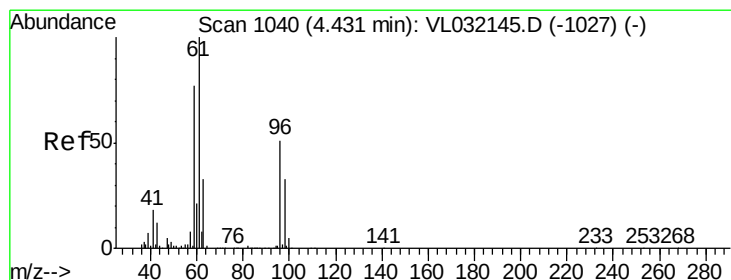
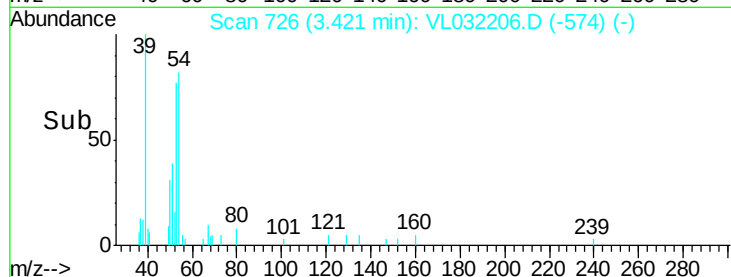
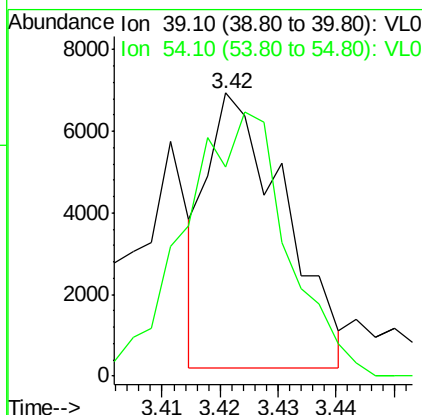
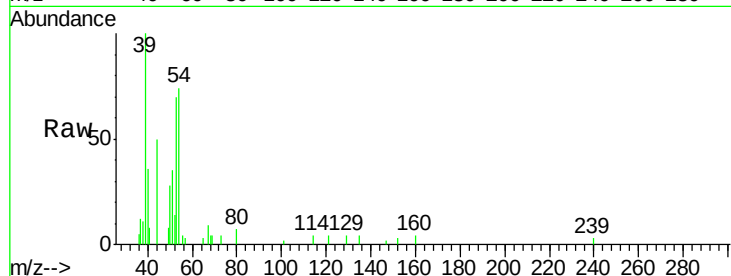




#16
 1,3-Butadiene
 Concen: 0.07 ppbv
 RT: 3.42 min Scan# 726
 Delta R.T. -0.01 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

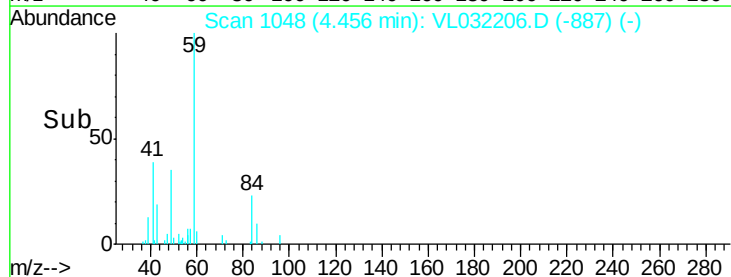
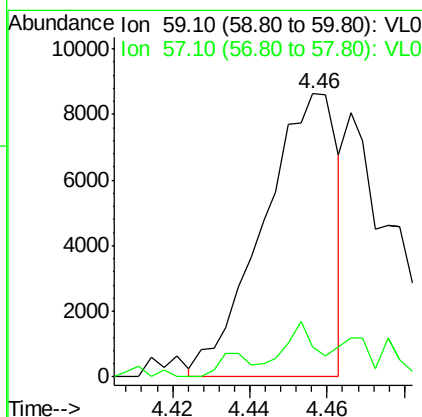
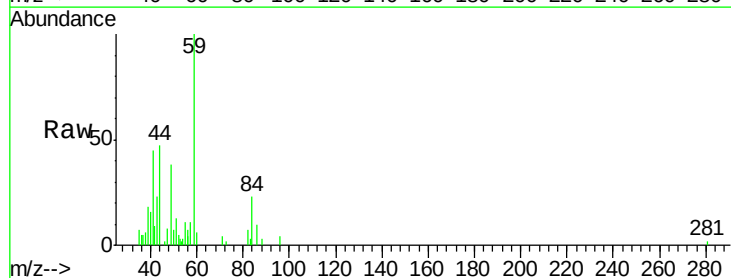
Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

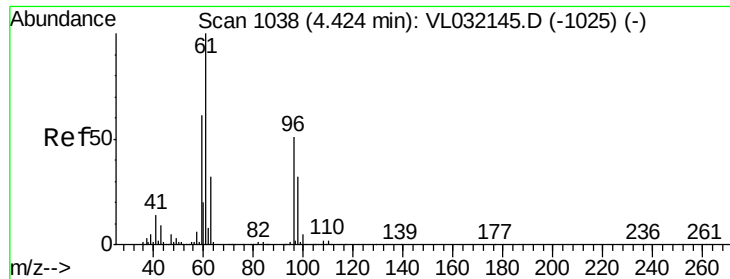
Tot Ion: 39 Resp: 6232
 Ion Ratio Lower Upper
 39 100
 54 131.9 75.8 113.6#



#17
 tert-Butyl alcohol
 Concen: 0.10 ppbv
 RT: 4.46 min Scan# 1048
 Delta R.T. 0.02 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Tgt Ion: 59 Resp: 11466
 Ion Ratio Lower Upper
 59 100
 57 21.7 8.2 12.2#

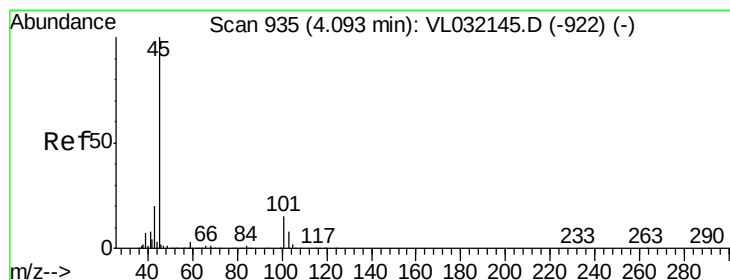
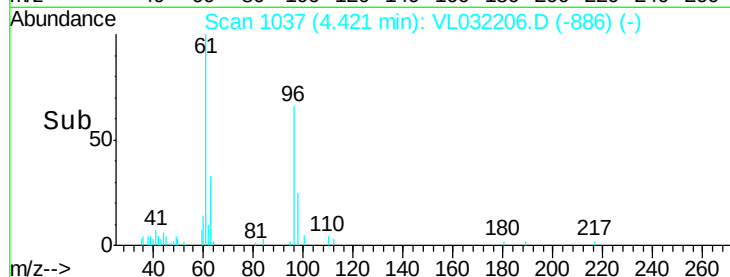
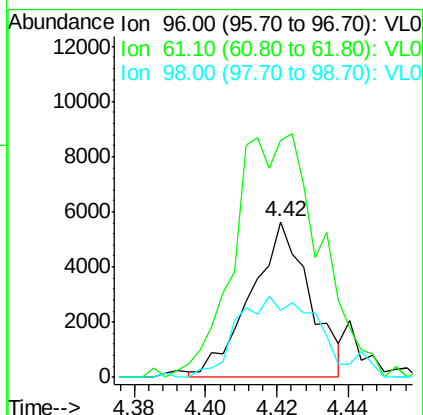
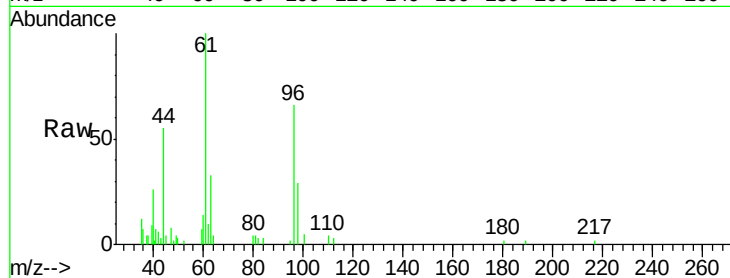




#18
 1,1-Dichloroethene
 Concen: 0.09 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

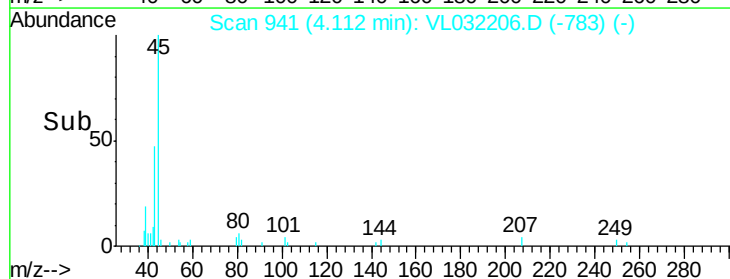
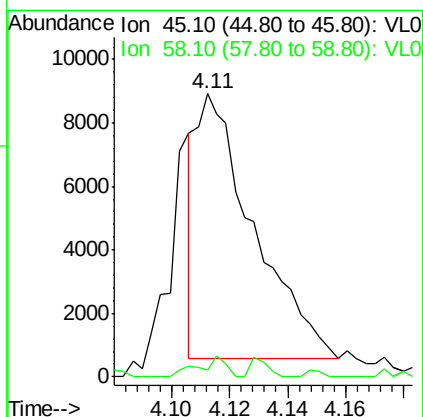
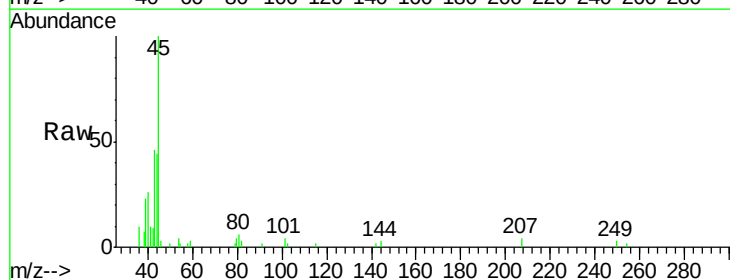
Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

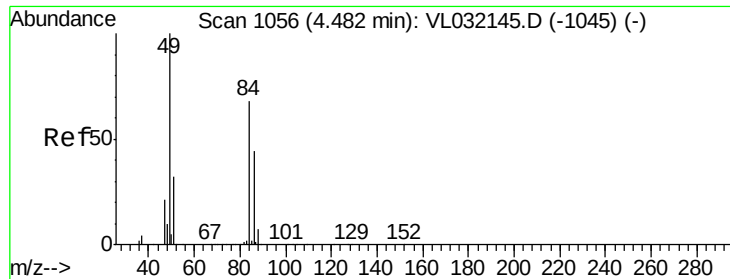
Tot Ion: 96 Resp: 6415
 Ion Ratio Lower Upper
 96 100
 61 148.9 154.1 231.1#
 98 44.9 50.3 75.5#



#19
 Isopropyl Alcohol
 Concen: 0.08 ppbv
 RT: 4.11 min Scan# 941
 Delta R.T. 0.01 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Tgt Ion: 45 Resp: 11271
 Ion Ratio Lower Upper
 45 100
 58 6.7 29.4 44.0#

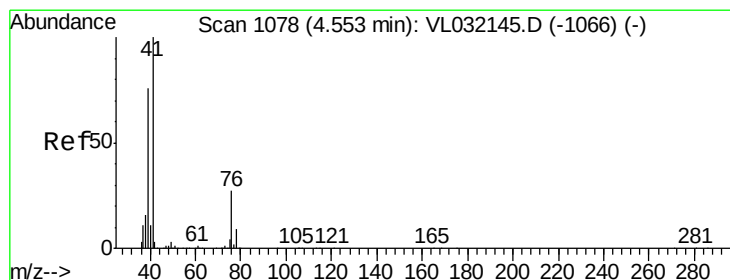
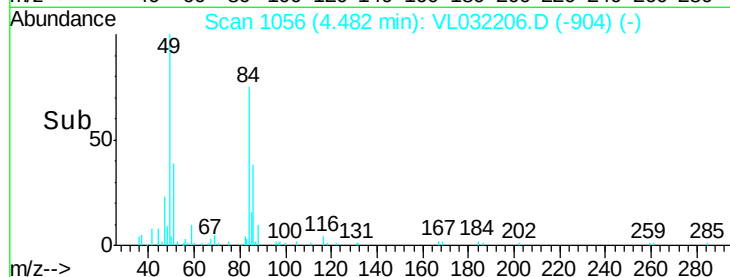
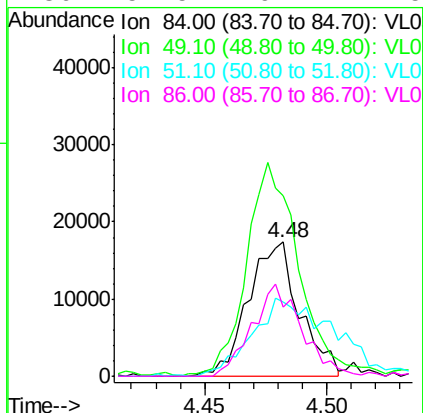
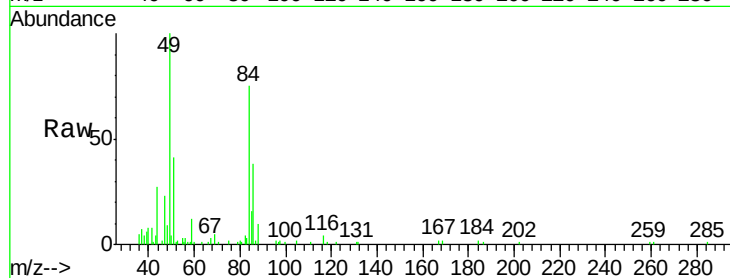




#20
Methylene Chloride
Concen: 0.38 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032206.D
Acq: 5 Jul 2018 16:44

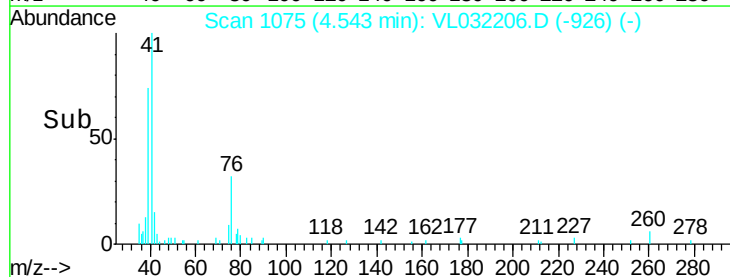
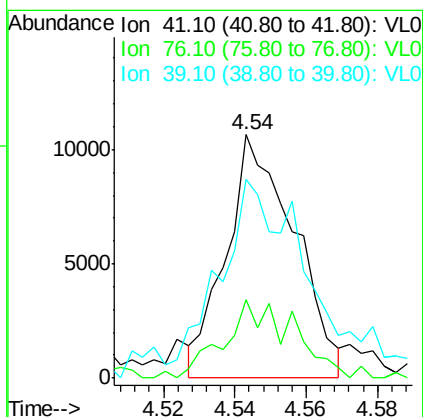
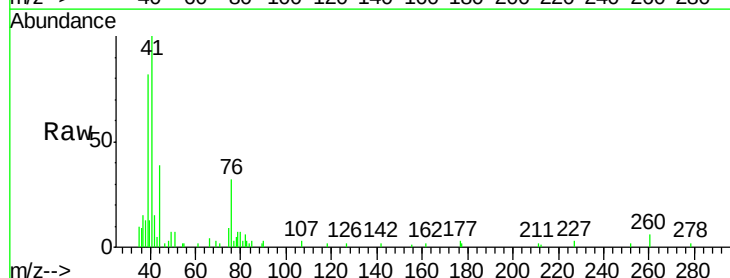
Instrument :
MSVOA_L
ClientSampleId :
QC061318 CAN 10444

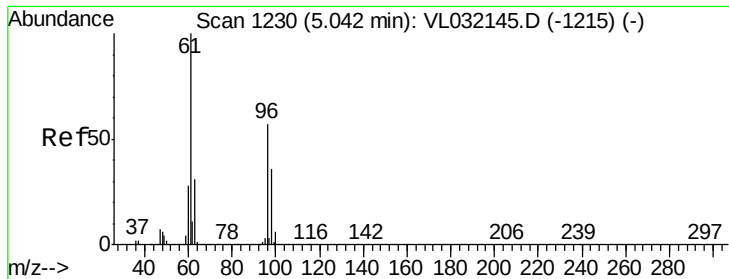
Tot Ion: 84 Resp: 25334
Ion Ratio Lower Upper
84 100
49 131.7 119.6 179.4
51 54.9 36.3 54.5#
86 51.5 49.7 74.5



#21
Allyl Chloride
Concen: 0.11 ppbv
RT: 4.54 min Scan# 1075
Delta R.T. -0.02 min
Lab File: VL032206.D
Acq: 5 Jul 2018 16:44

Tgt Ion: 41 Resp: 14072
Ion Ratio Lower Upper
41 100
76 35.1 22.5 33.7#
39 123.2 60.5 90.7#





#22

trans-1,2-Dichloroethene

Concen: 0.09 ppbv

RT: 5.04 min Scan# 1230

Delta R.T. -0.01 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

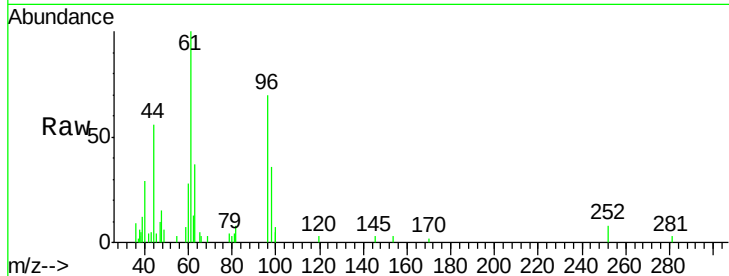
Tot Ion: 96 Resp: 6697

Ion Ratio Lower Upper

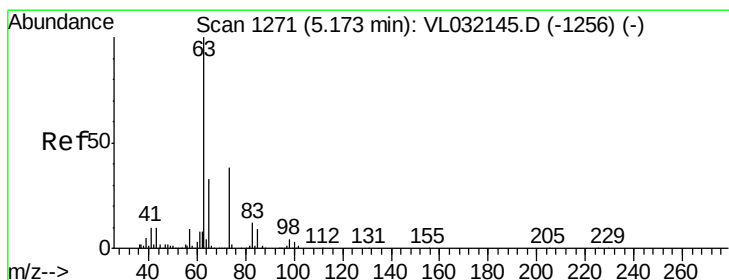
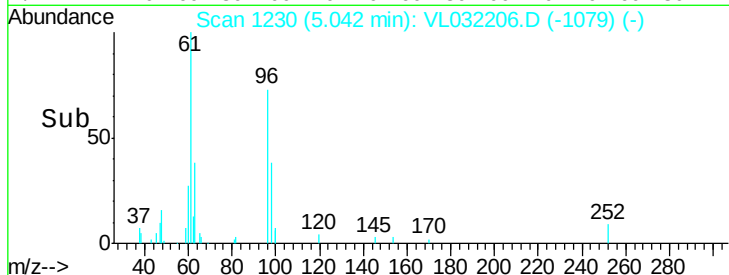
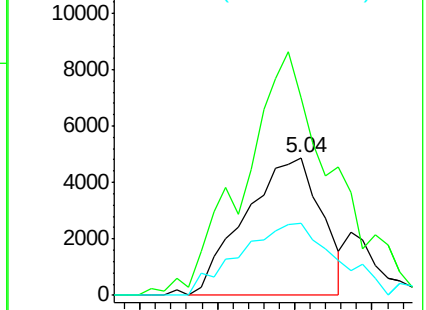
96 100

61 137.5 135.2 202.8

98 52.3 49.7 74.5



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



#24

1,1-Dichloroethane

Concen: 0.08 ppbv

RT: 5.16 min Scan# 1267

Delta R.T. -0.02 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

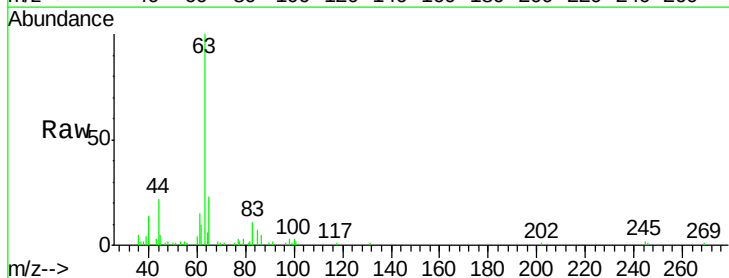
Tgt Ion: 63 Resp: 17447

Ion Ratio Lower Upper

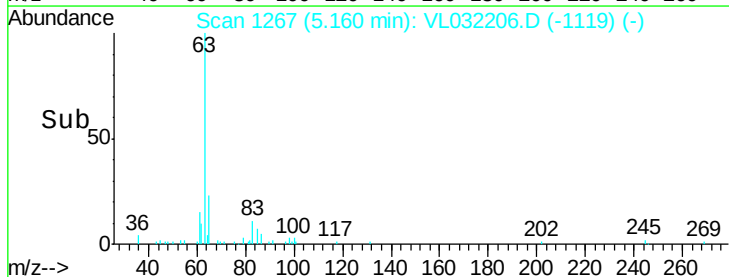
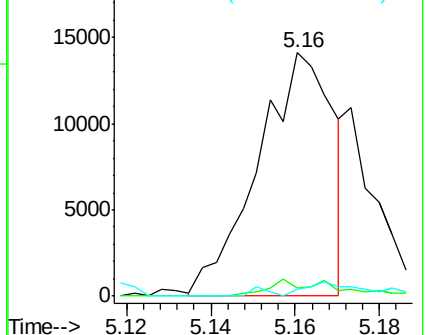
63 100

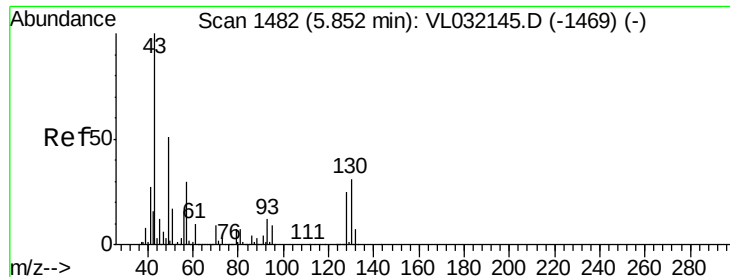
98 3.2 2.4 7.2

100 2.8 1.7 5.0



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

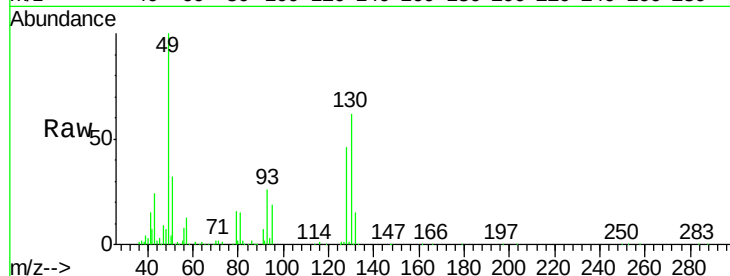




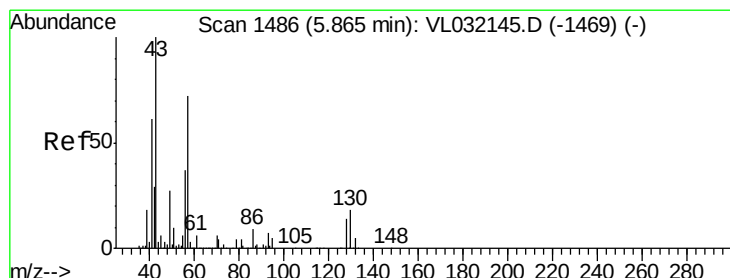
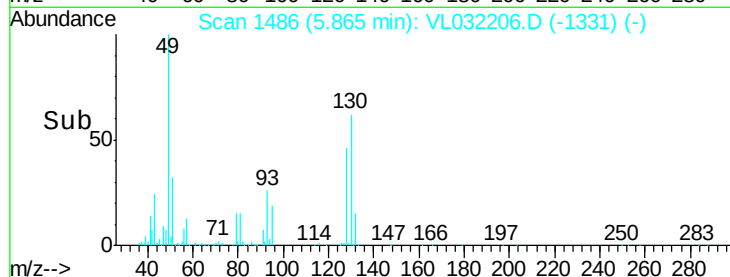
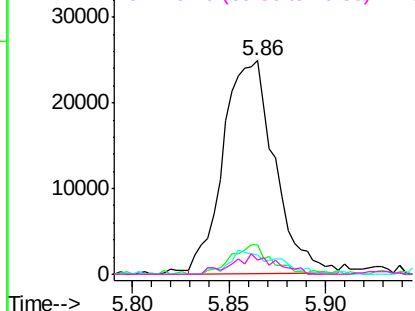
#25
Ethyl Acetate
Concen: 0.12 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.00 min
Lab File: VL032206.D
Acq: 5 Jul 2018 16:44

Instrument :
MSVOA_L
ClientSampleId :
QC061318 CAN 10444

Tot Ion:	43	Resp:	45924
Ion	Ratio	Lower	Upper
43	100		
45	12.9	7.8	11.8#
61	10.7	7.4	11.0
70	7.7	6.1	9.1

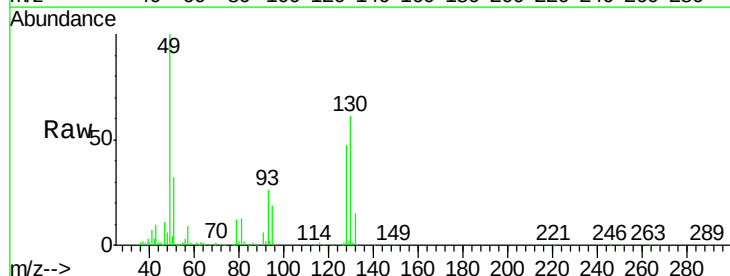


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

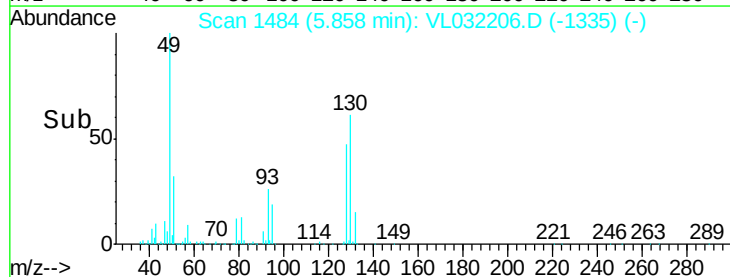
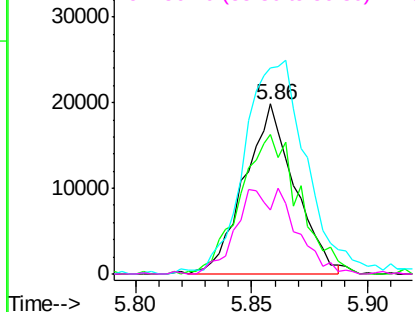


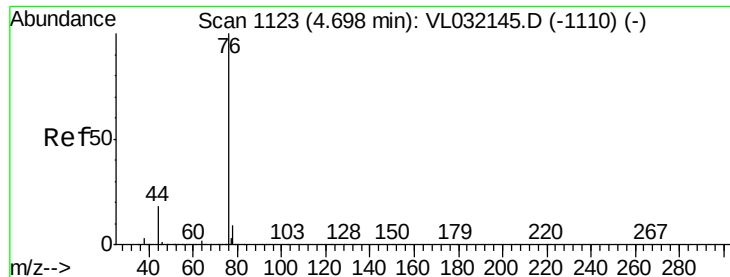
#26
Hexane
Concen: 0.17 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.02 min
Lab File: VL032206.D
Acq: 5 Jul 2018 16:44

Tgt Ion:	57	Resp:	29869
Ion	Ratio	Lower	Upper
57	100		
41	97.6	68.6	103.0
43	161.8	168.6	252.8#
56	58.4	41.0	61.6



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.09 ppbv

RT: 4.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

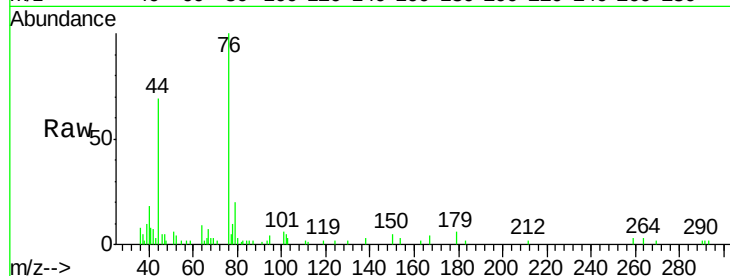
Tot Ion: 76 Resp: 15796

Ion Ratio Lower Upper

76 100

44 195.5 15.1 22.7#

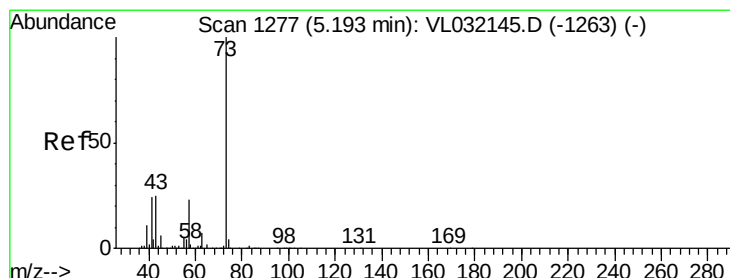
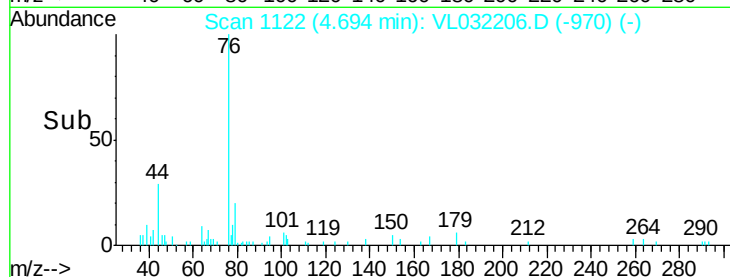
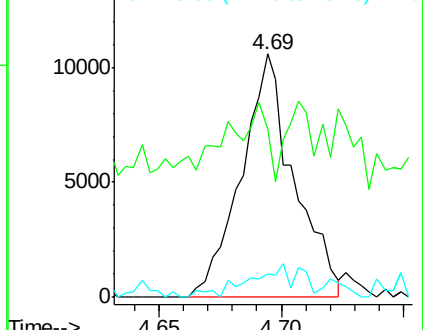
78 16.4 7.2 10.8#



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



#28

Methyl tert-Butyl Ether

Concen: 0.07 ppbv

RT: 5.21 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VL032206.D

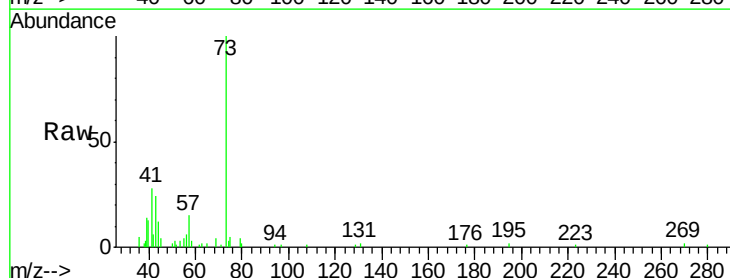
Acq: 5 Jul 2018 16:44

Tgt Ion: 73 Resp: 21282

Ion Ratio Lower Upper

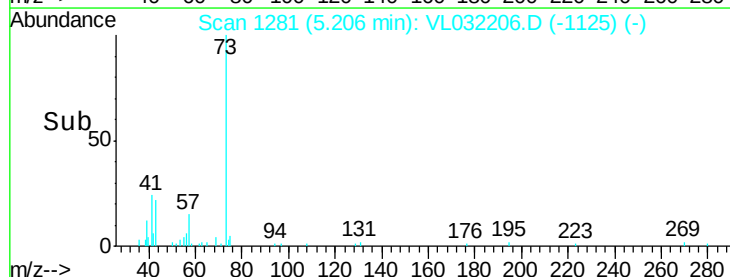
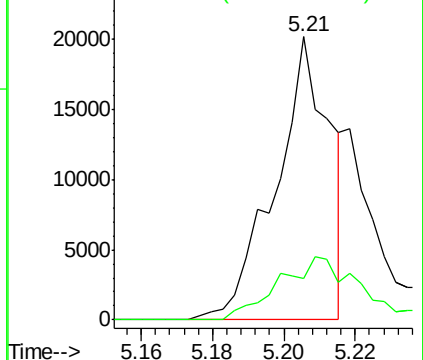
73 100

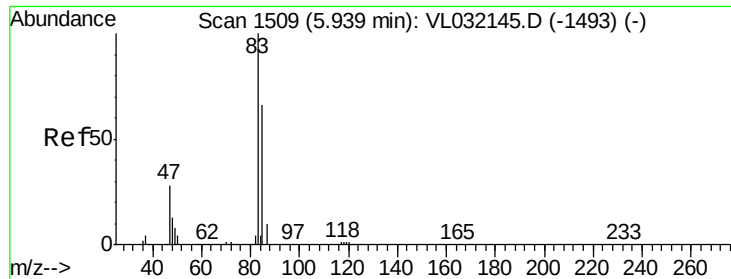
57 33.5 18.6 27.8#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.12 ppbv

RT: 5.92 min Scan# 1504

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

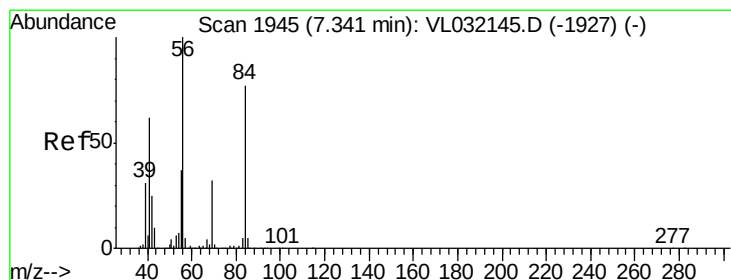
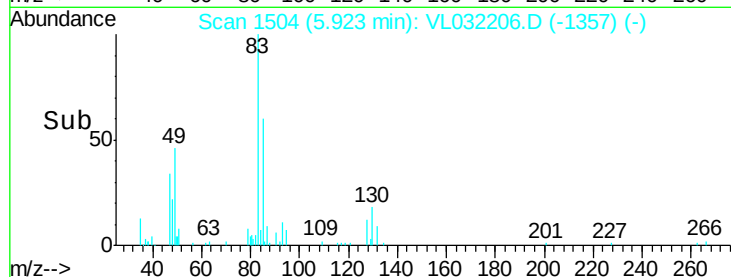
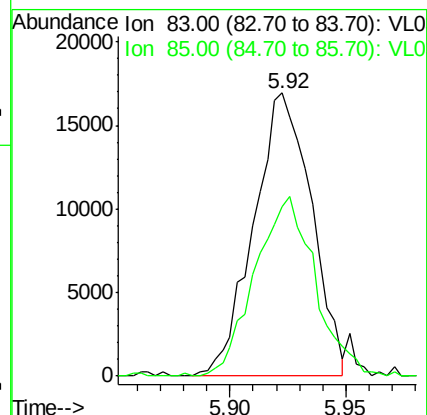
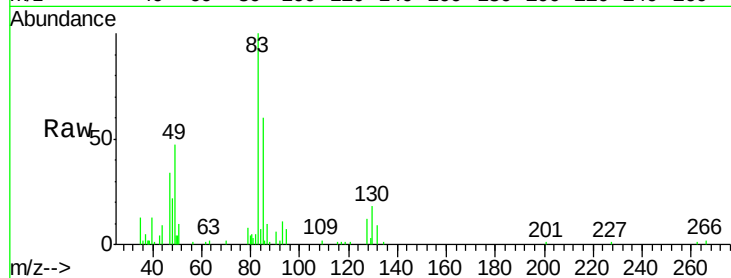
QC061318 CAN 10444

Tot Ion: 83 Resp: 29237

Ion Ratio Lower Upper

83 100

85 60.0 51.6 77.4



#30

Cyclohexane

Concen: 0.05 ppbv

RT: 7.33 min Scan# 1942

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

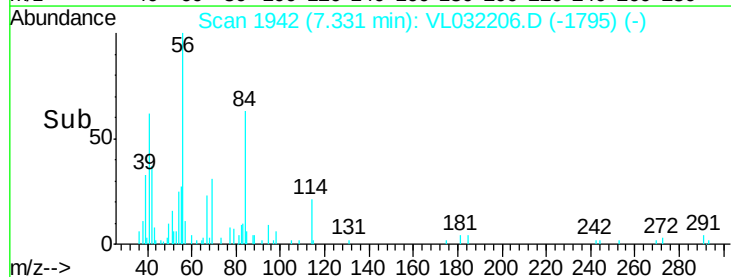
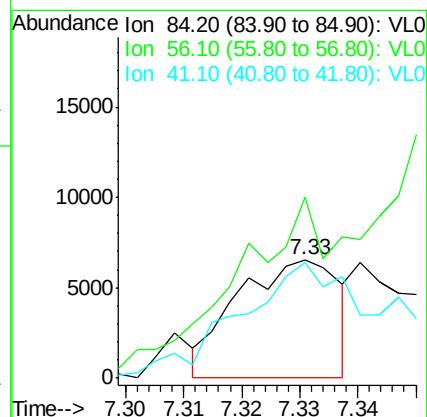
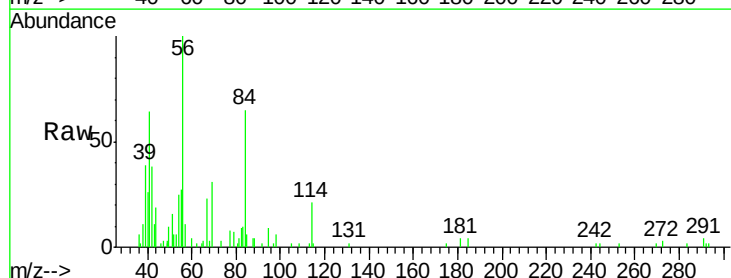
Tgt Ion: 84 Resp: 7979

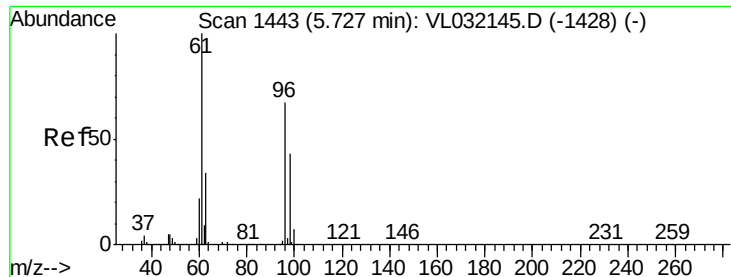
Ion Ratio Lower Upper

84 100

56 0.0 109.1 163.7#

41 173.5 64.6 96.8#

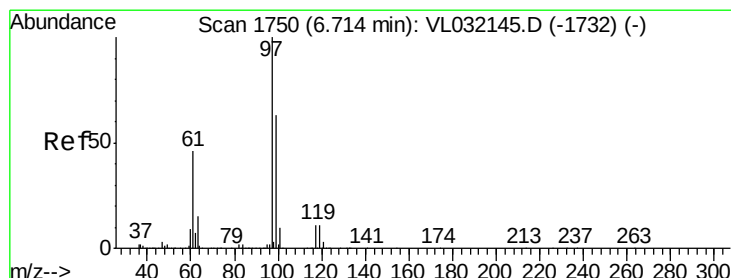
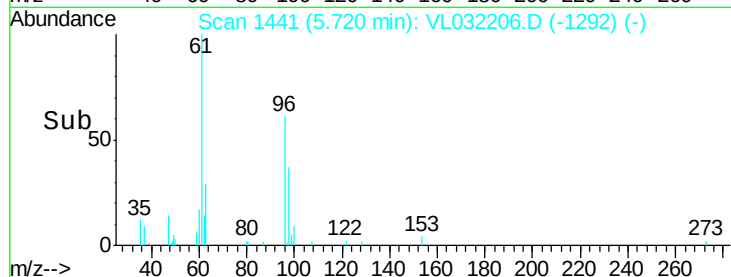
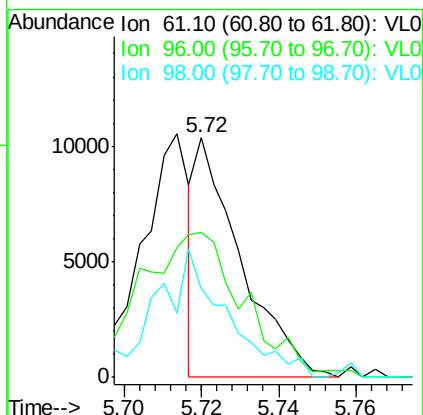
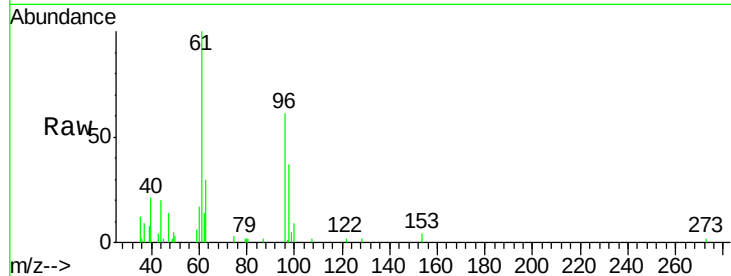




#31
 cis-1,2-Dichloroethene
 Concen: 0.05 ppbv
 RT: 5.72 min Scan# 1441
 Delta R.T. -0.02 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

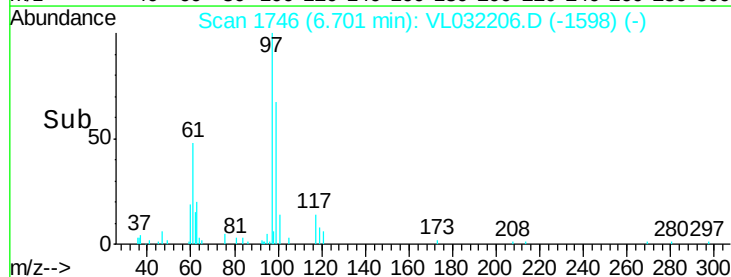
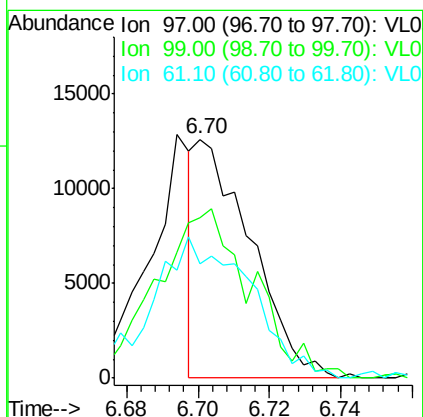
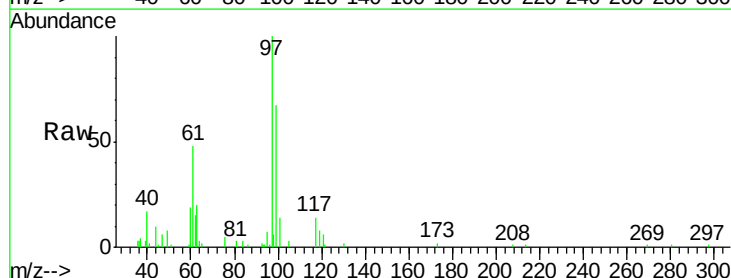
Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

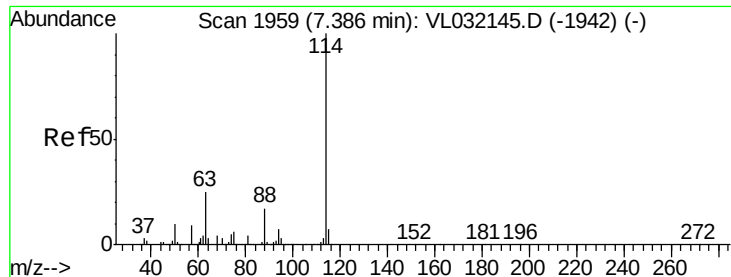
Tot Ion: 61 Resp: 8338
 Ion Ratio Lower Upper
 61 100
 96 57.8 54.2 81.4
 98 35.2 34.6 52.0



#32
 1,1,1-Trichloroethane
 Concen: 0.05 ppbv
 RT: 6.70 min Scan# 1746
 Delta R.T. -0.02 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Tgt Ion: 97 Resp: 13475
 Ion Ratio Lower Upper
 97 100
 99 125.3 51.3 76.9#
 61 109.1 38.4 57.6#

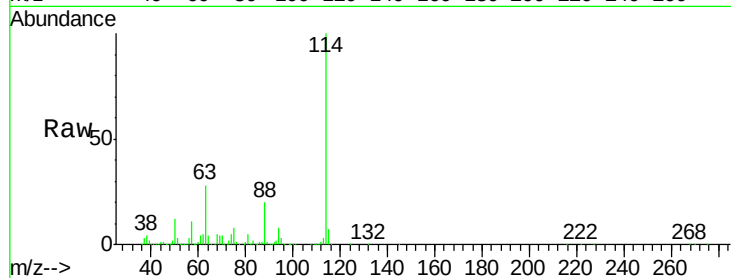




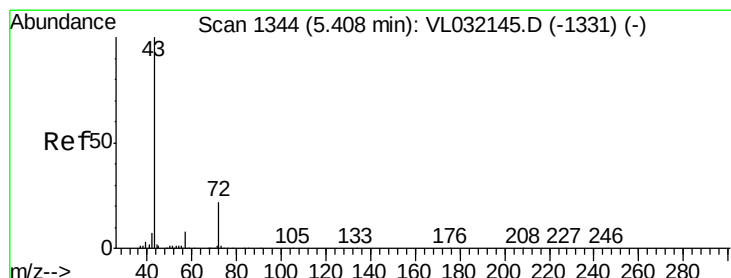
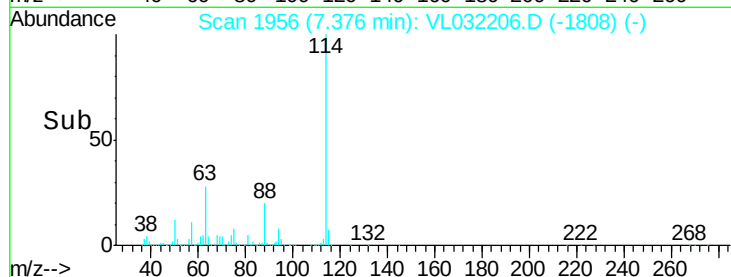
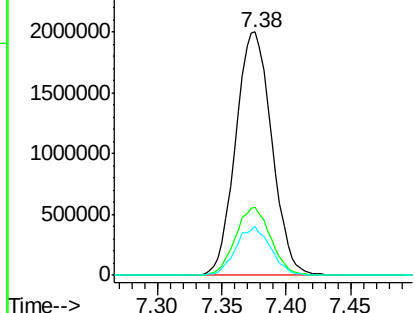
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1956
 Delta R.T. -0.02 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

Tot Ion:114 Resp: 3904086
 Ion Ratio Lower Upper
 114 100
 63 27.5 19.1 28.7
 88 19.2 13.9 20.9

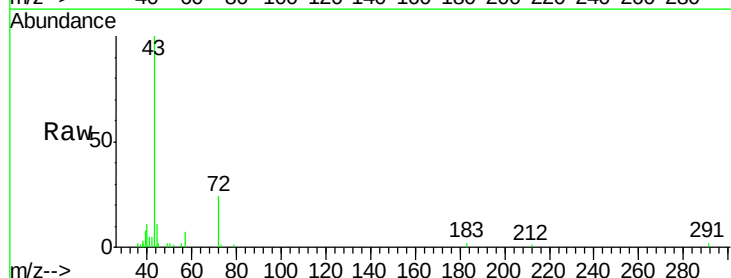


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

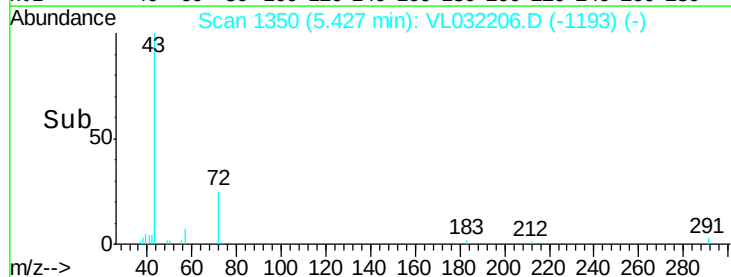
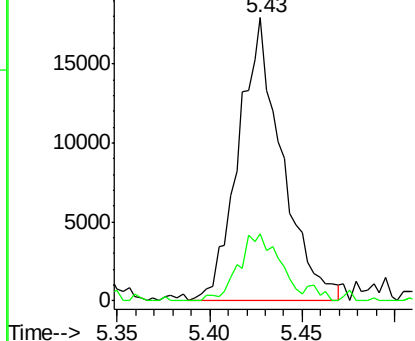


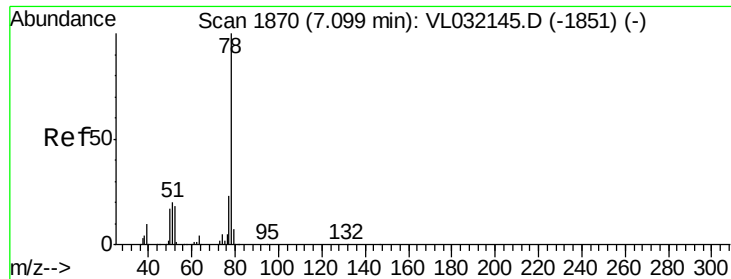
#34
 2-Butanone
 Concen: 0.12 ppbv
 RT: 5.43 min Scan# 1350
 Delta R.T. 0.01 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Tgt Ion: 43 Resp: 29298
 Ion Ratio Lower Upper
 43 100
 72 24.8 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

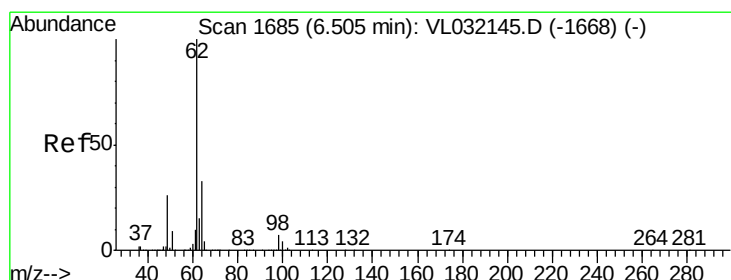
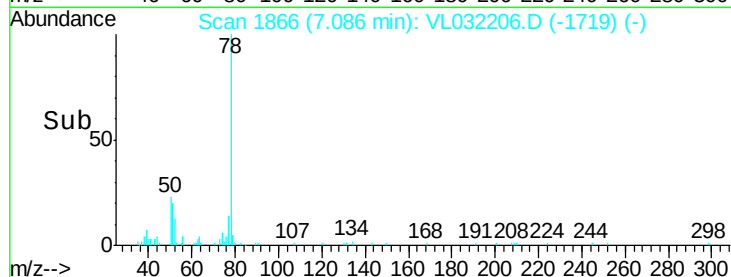
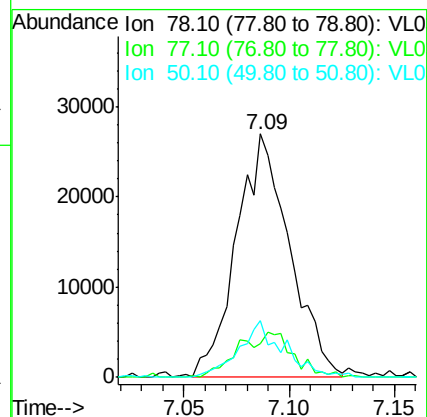
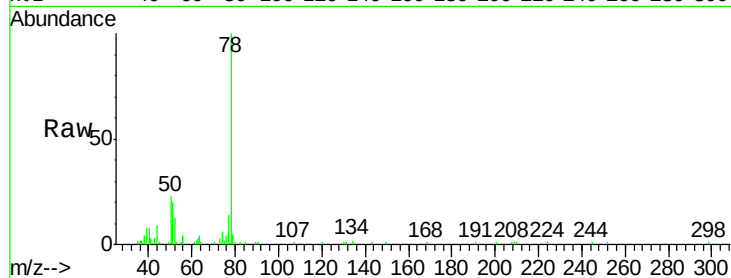




#36
Benzene
Concen: 0.12 ppbv
RT: 7.09 min Scan# 1866
Delta R.T. -0.03 min
Lab File: VL032206.D
Acq: 5 Jul 2018 16:44

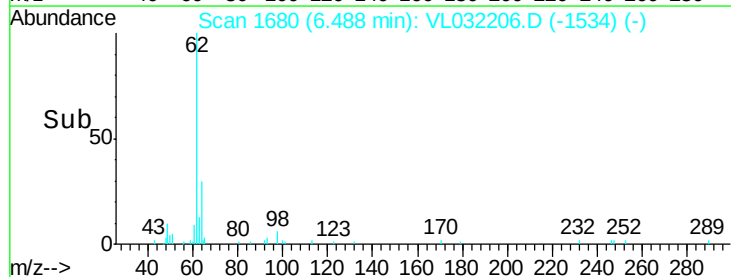
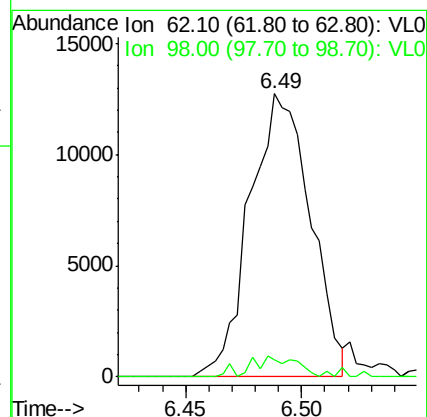
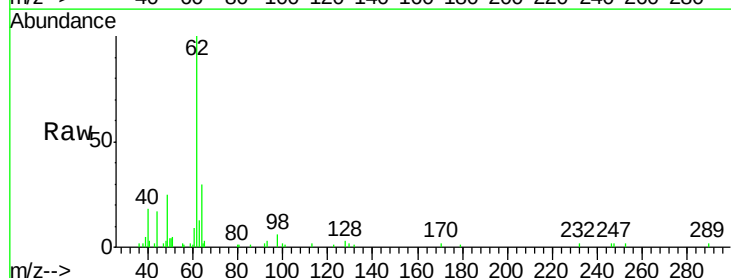
Instrument :
MSVOA_L
ClientSampleId :
QC061318 CAN 10444

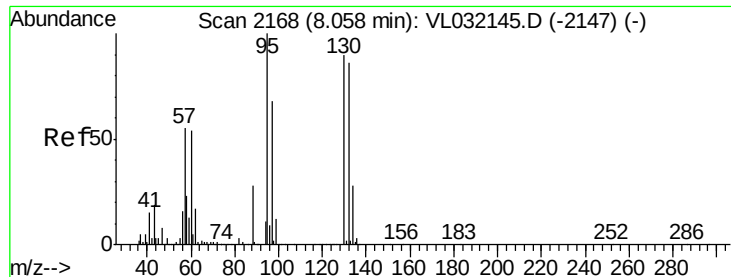
Tot Ion: 78 Resp: 47086
Ion Ratio Lower Upper
78 100
77 13.7 17.7 26.5#
50 23.4 14.0 21.0#



#37
1,2-Dichloroethane
Concen: 0.12 ppbv
RT: 6.49 min Scan# 1680
Delta R.T. -0.03 min
Lab File: VL032206.D
Acq: 5 Jul 2018 16:44

Tgt Ion: 62 Resp: 23078
Ion Ratio Lower Upper
62 100
98 6.4 5.8 8.6





#38

Trichloroethene

Concen: 0.11 ppbv

RT: 8.04 min Scan# 2163

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

Tot Ion:130 Resp: 16572

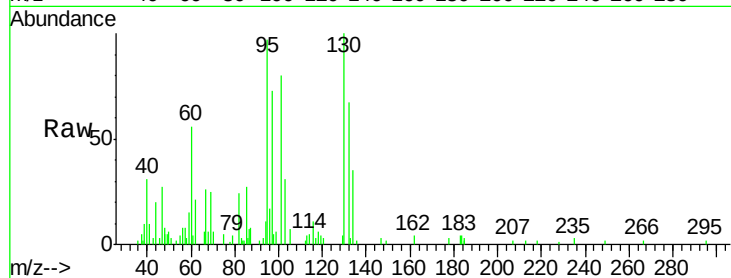
Ion Ratio Lower Upper

130 100

95 97.1 88.1 132.1

132 67.2 74.6 112.0#

97 71.1 58.6 88.0

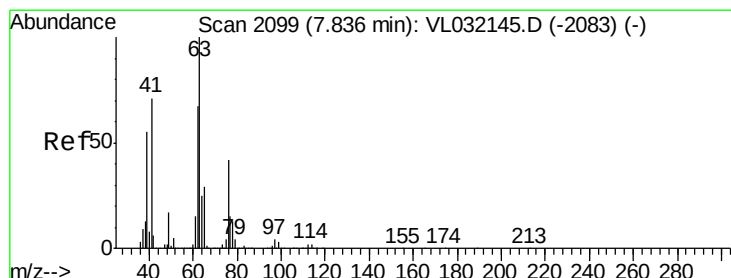
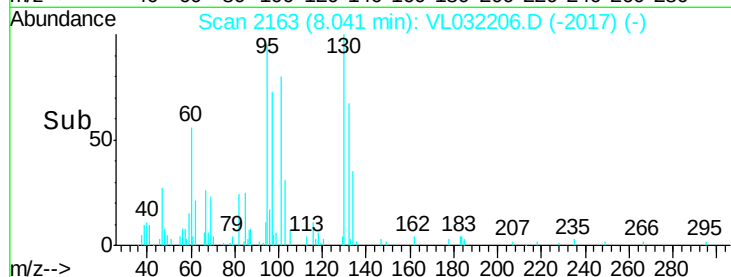
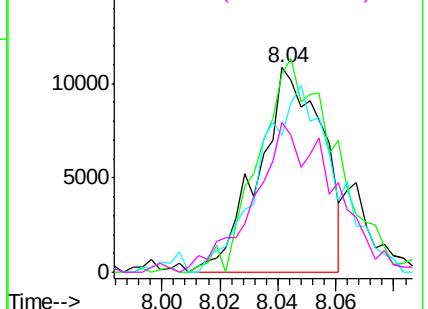


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.09 ppbv

RT: 7.82 min Scan# 2094

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

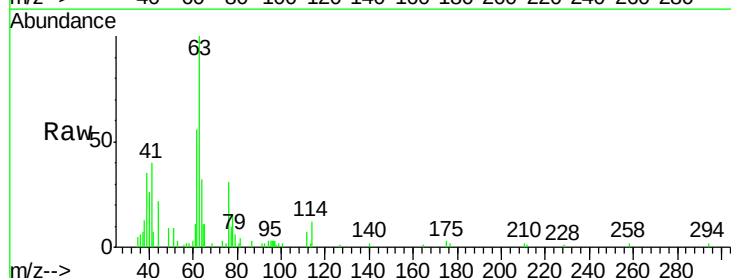
Tgt Ion: 63 Resp: 12758

Ion Ratio Lower Upper

63 100

41 38.4 53.3 79.9#

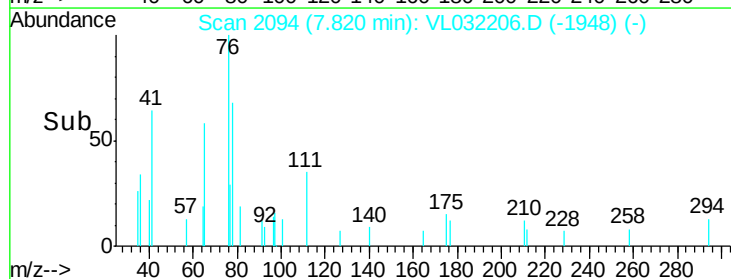
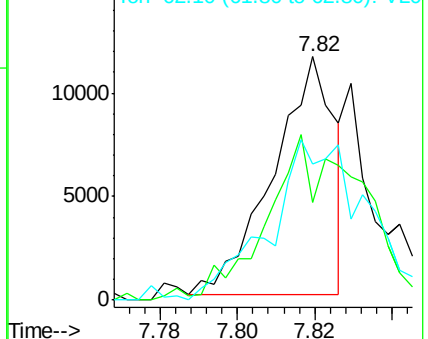
62 59.5 54.8 82.2

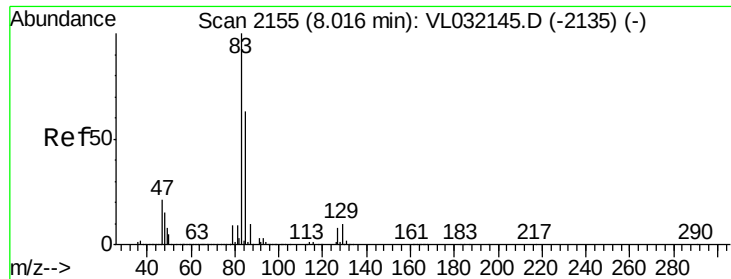


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.07 ppbv

RT: 8.00 min Scan# 2151

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

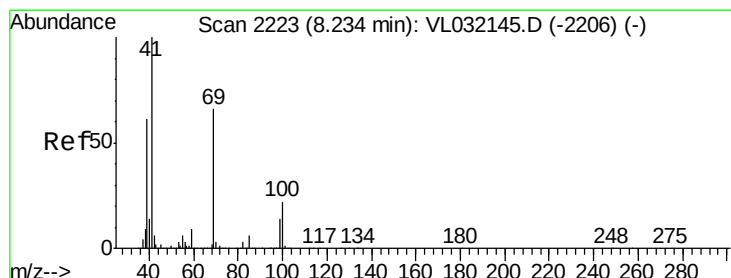
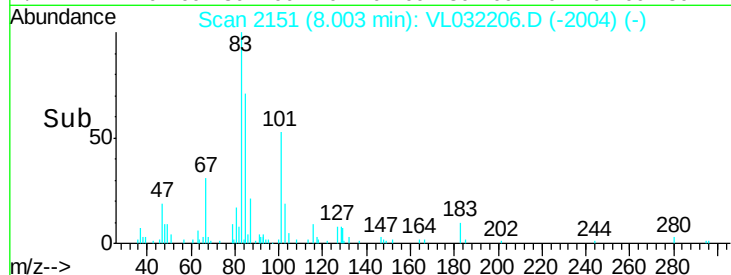
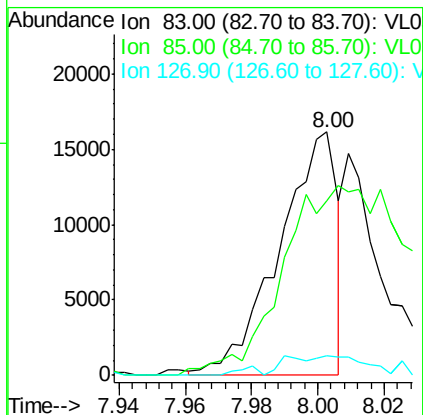
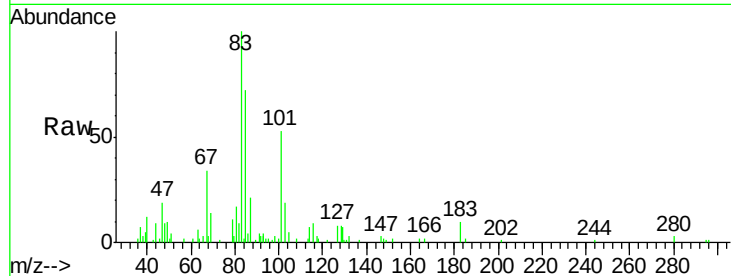
Tot Ion: 83 Resp: 19612

Ion Ratio Lower Upper

83 100

85 69.9 52.6 79.0

127 8.5 6.5 9.7



#43

Methyl Methacrylate

Concen: 0.04 ppbv

RT: 8.23 min Scan# 2221

Delta R.T. -0.02 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

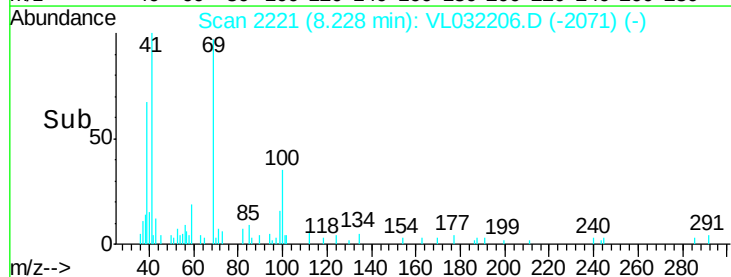
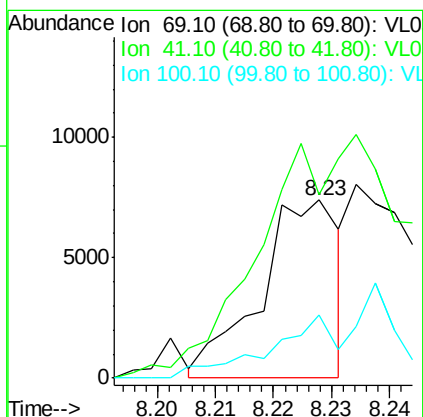
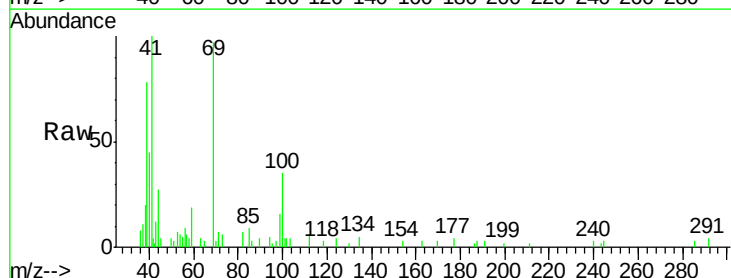
Tgt Ion: 69 Resp: 6984

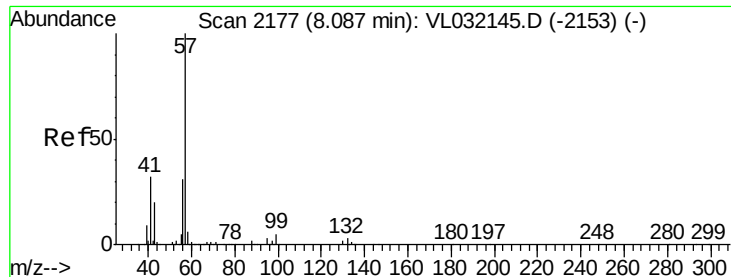
Ion Ratio Lower Upper

69 100

41 0.0 118.2 177.4#

100 0.0 27.4 41.2#

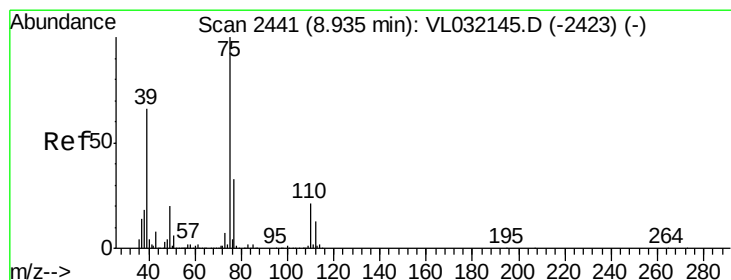
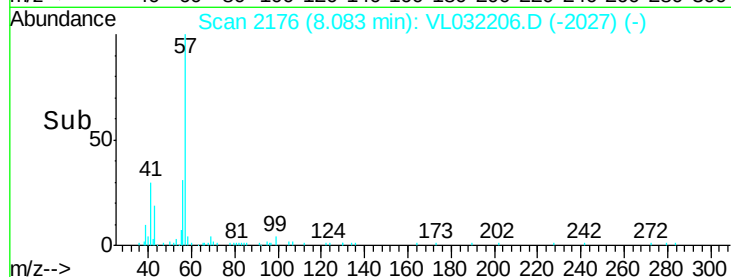
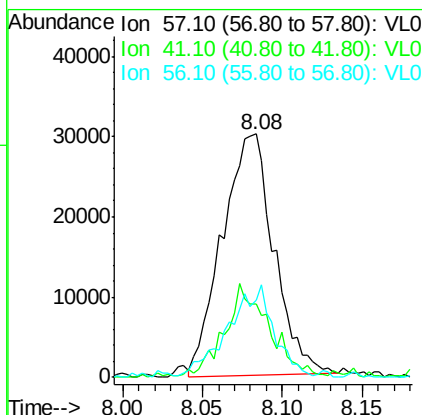
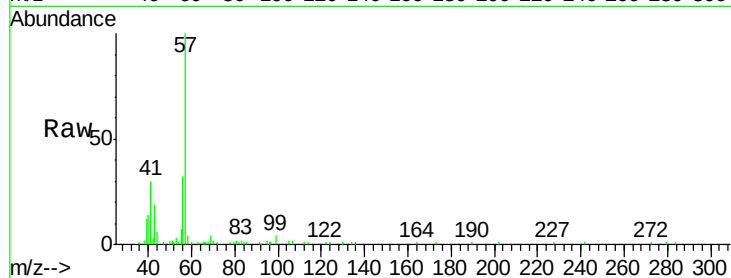




#44
 2,2,4-Trimethylpentane
 Concen: 0.10 ppbv
 RT: 8.08 min Scan# 2176
 Delta R.T. -0.02 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

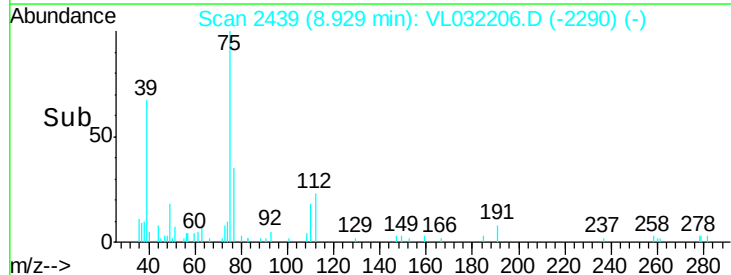
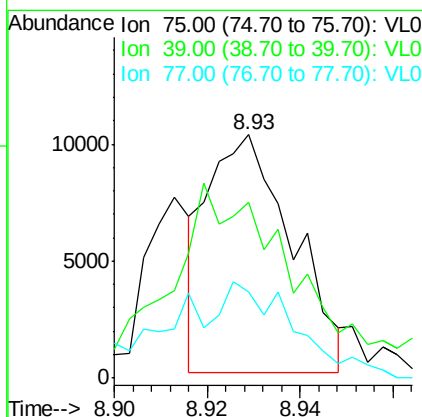
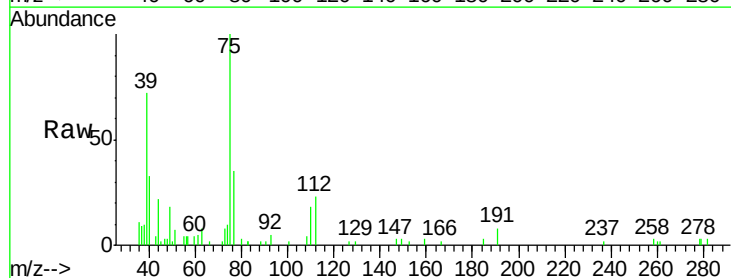
Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

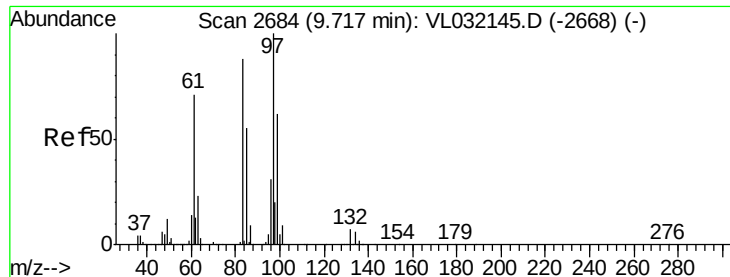
Tot Ion	57	Resp	66755
Ion	Ratio	Lower	Upper
57	100		
41	35.5	24.3	36.5
56	36.0	25.1	37.7



#46
 cis-1,3-Dichloropropene
 Concen: 0.06 ppbv
 RT: 8.93 min Scan# 2439
 Delta R.T. -0.02 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Tgt Ion	75	Resp	12870
Ion	Ratio	Lower	Upper
75	100		
39	67.5	51.9	77.9
77	37.3	24.3	36.5#





#47

1,1,2-Trichloroethane

Concen: 0.05 ppbv

RT: 9.70 min Scan# 2678

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

Tot Ion: 97 Resp: 7450

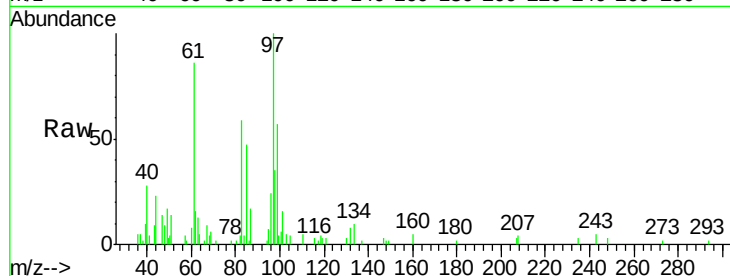
Ion Ratio Lower Upper

97 100

83 53.1 71.0 106.4#

85 3.7 44.2 66.4#

99 51.7 49.2 73.8

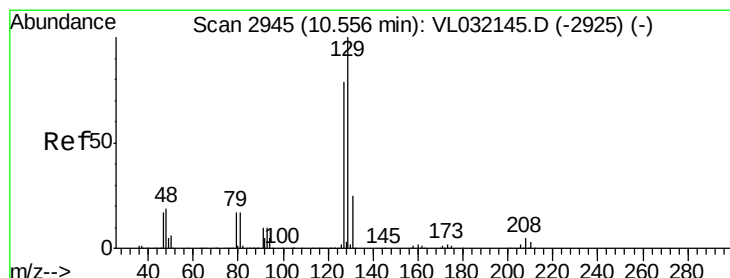
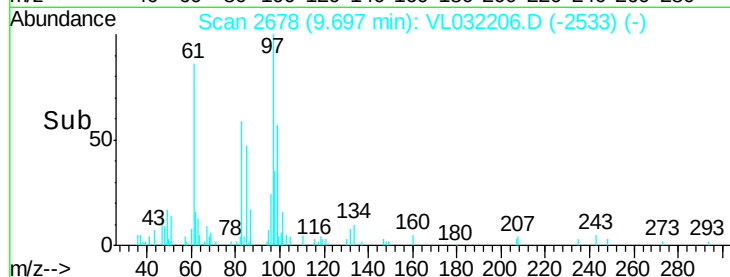
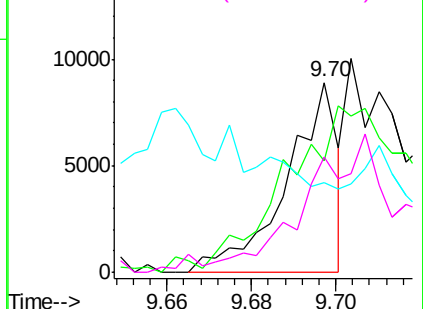


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.04 ppbv

RT: 10.54 min Scan# 2940

Delta R.T. -0.03 min

Lab File: VL032206.D

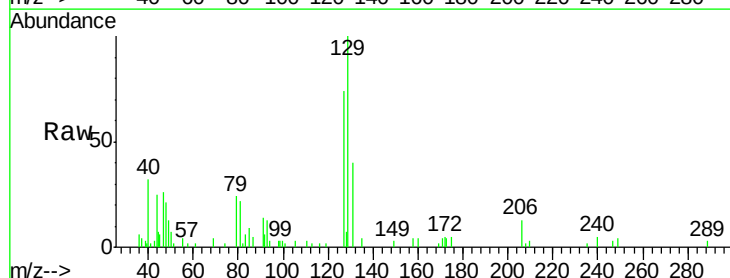
Acq: 5 Jul 2018 16:44

Tgt Ion: 129 Resp: 10373

Ion Ratio Lower Upper

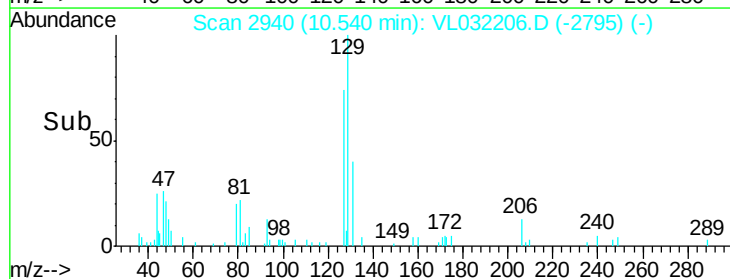
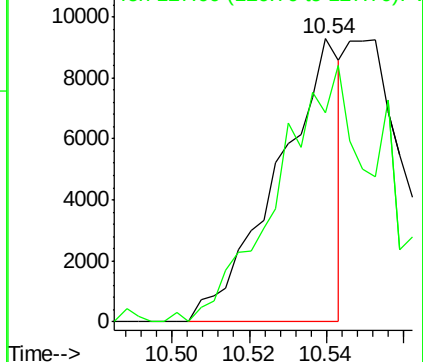
129 100

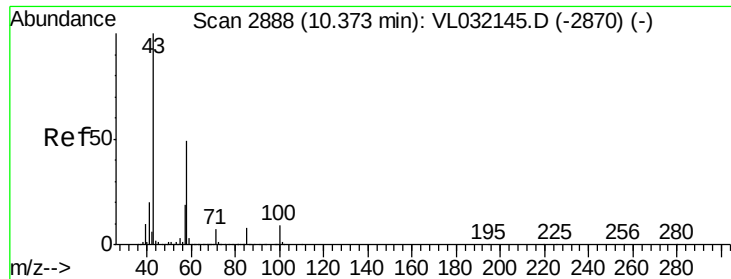
127 158.8 39.1 117.5#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

2-Hexanone

Concen: 0.05 ppbv

RT: 10.39 min Scan# 2893

Delta R.T. 0.00 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

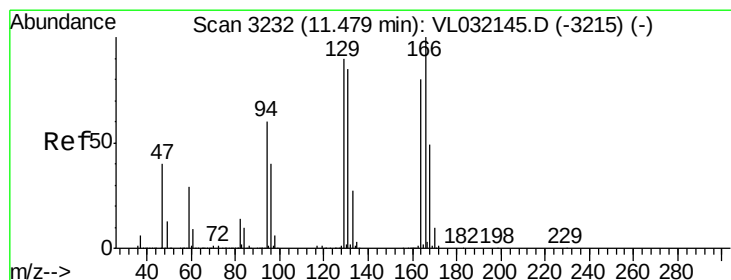
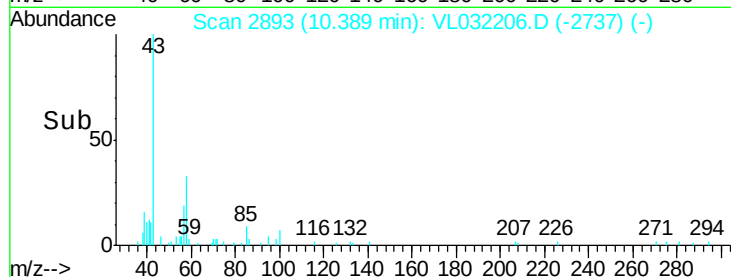
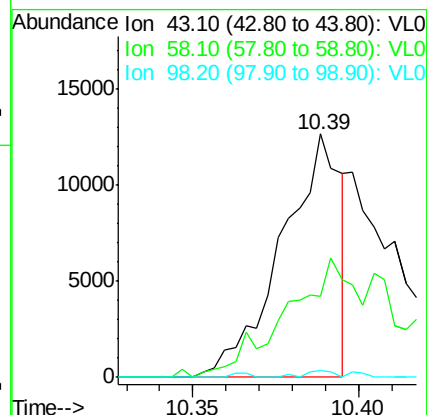
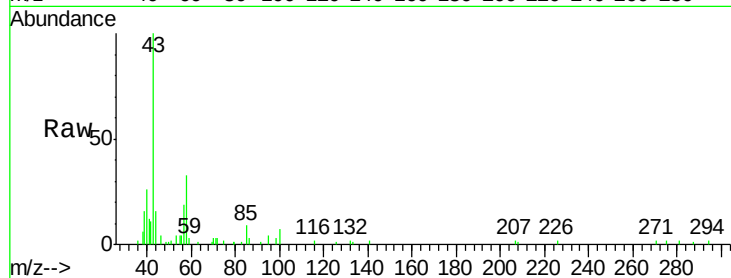
Tot Ion: 43 Resp: 15718

Ion Ratio Lower Upper

43 100

58 102.5 40.6 60.8#

98 2.6 0.1 0.1#



#52

Tetrachloroethene

Concen: 0.13 ppbv

RT: 11.47 min Scan# 3228

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Tgt Ion: 164 Resp: 17476

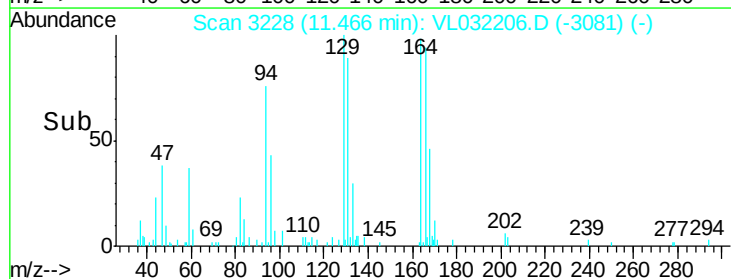
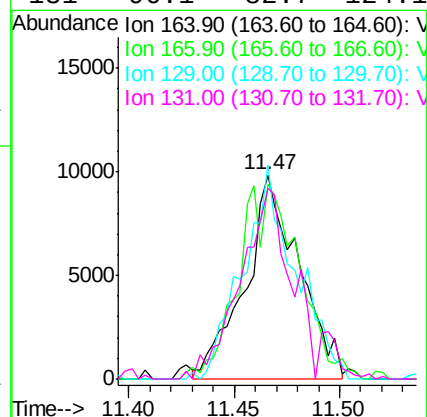
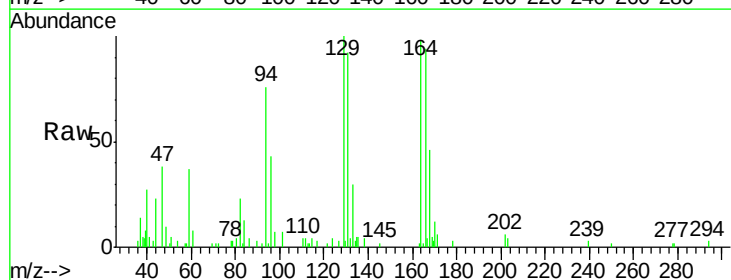
Ion Ratio Lower Upper

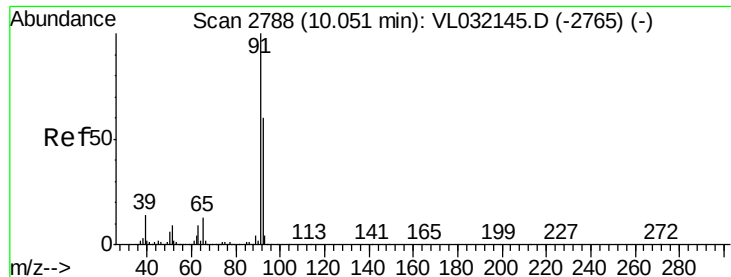
164 100

166 92.1 100.6 151.0#

129 103.9 84.0 126.0

131 96.1 82.7 124.1





#53

Toluene

Concen: 0.09 ppbv

RT: 10.04 min Scan# 2784

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

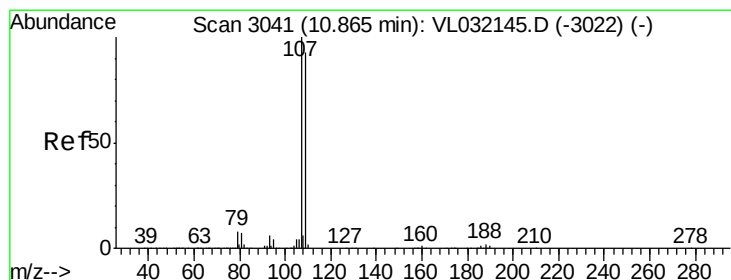
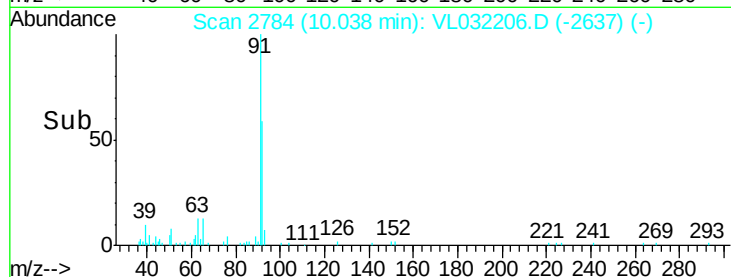
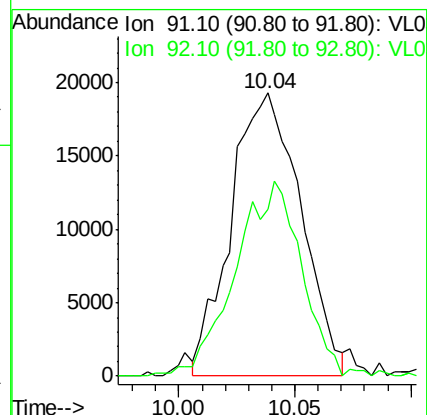
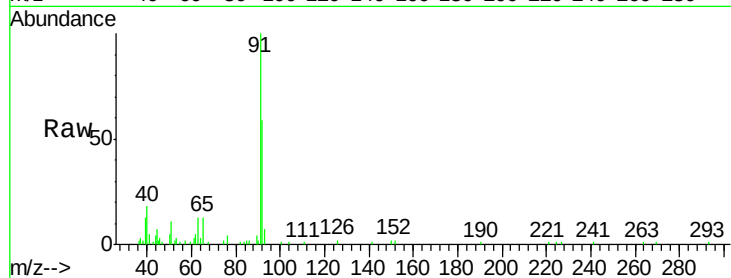
QC061318 CAN 10444

Tot Ion: 91 Resp: 40369

Ion Ratio Lower Upper

91 100

92 65.5 49.2 73.8



#54

1,2-Dibromoethane

Concen: 0.08 ppbv

RT: 10.85 min Scan# 3038

Delta R.T. -0.02 min

Lab File: VL032206.D

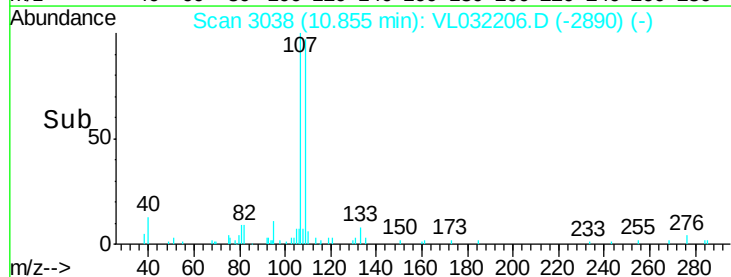
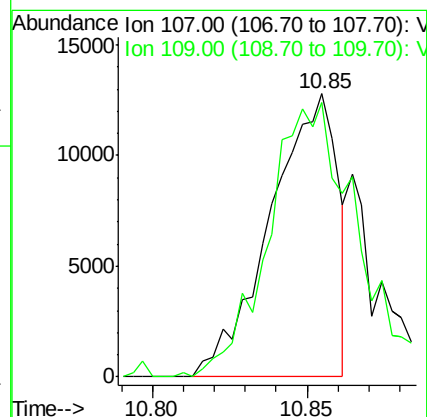
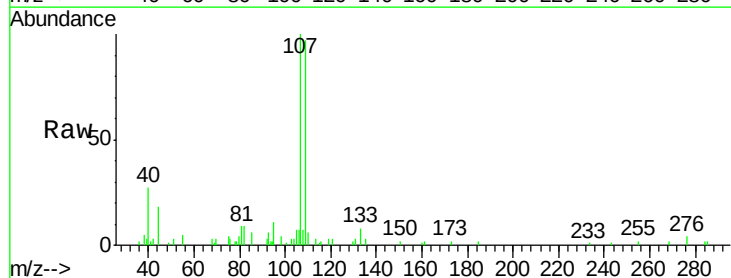
Acq: 5 Jul 2018 16:44

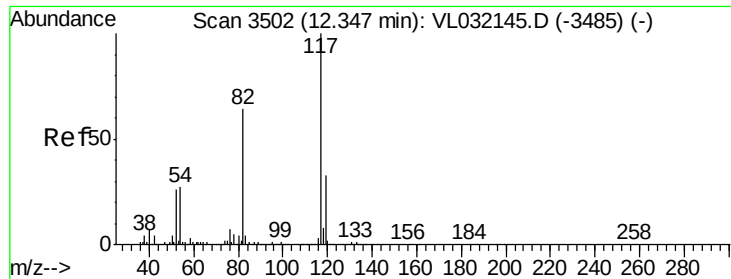
Tgt Ion: 107 Resp: 19283

Ion Ratio Lower Upper

107 100

109 96.8 75.0 112.4

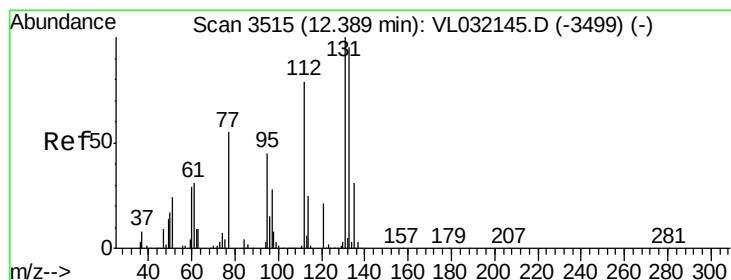
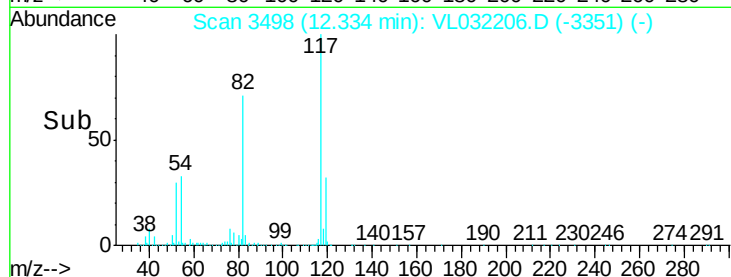
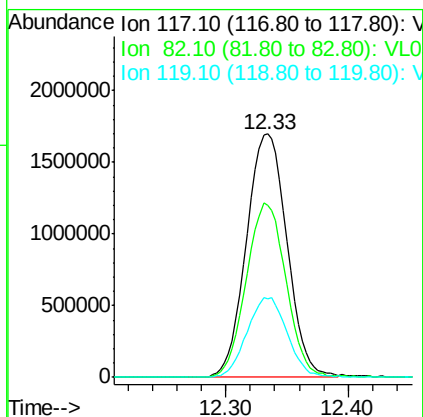
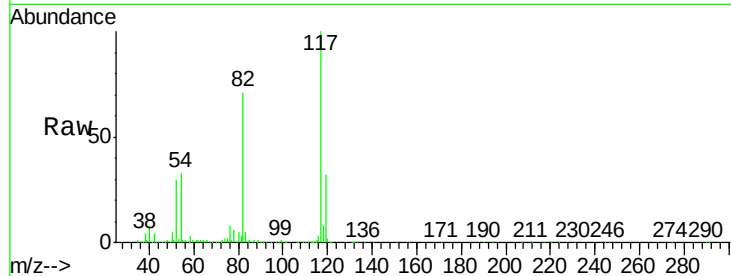




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.33 min Scan# 3498
Delta R.T. -0.03 min
Lab File: VL032206.D
Acq: 5 Jul 2018 16:44

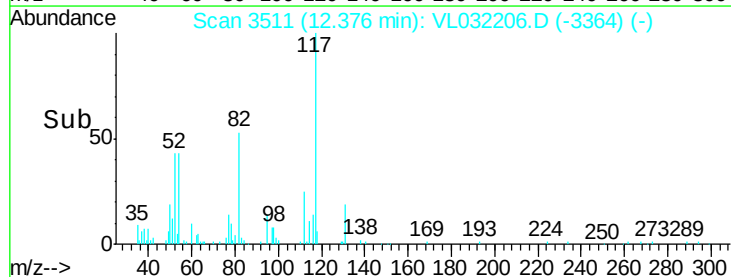
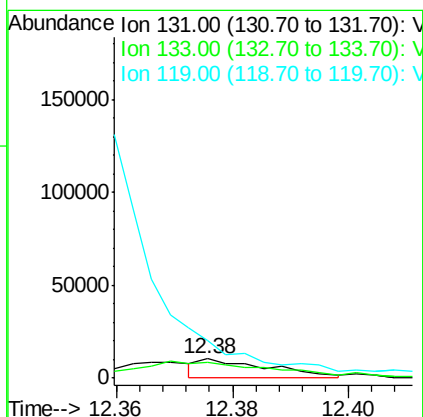
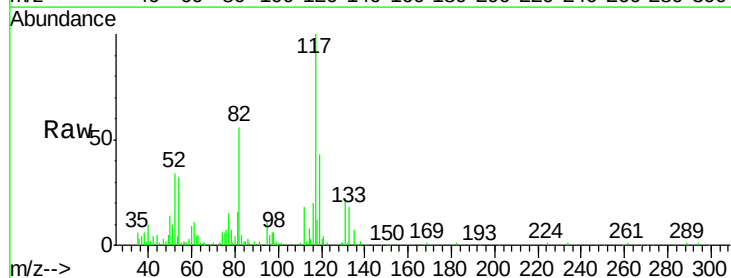
Instrument :
MSVOA_L
ClientSampleId :
QC061318 CAN 10444

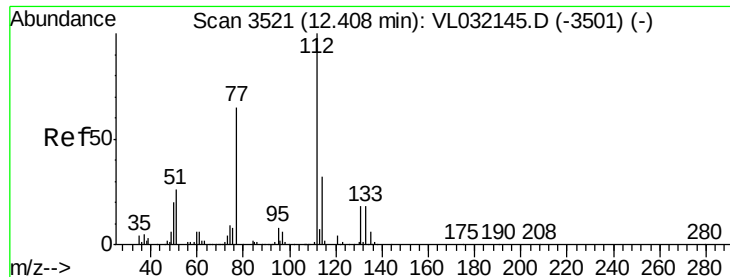
Tot Ion:117 Resp: 3907032
Ion Ratio Lower Upper
117 100
82 70.2 47.8 71.8
119 32.8 43.3 64.9#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.05 ppbv
RT: 12.38 min Scan# 3511
Delta R.T. -0.03 min
Lab File: VL032206.D
Acq: 5 Jul 2018 16:44

Tgt Ion:131 Resp: 8592
Ion Ratio Lower Upper
131 100
133 0.0 75.5 113.3#
119 0.0 118.4 177.6#





#57

Chlorobenzene

Concen: 0.06 ppbv

RT: 12.40 min Scan# 3518

Delta R.T. -0.02 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

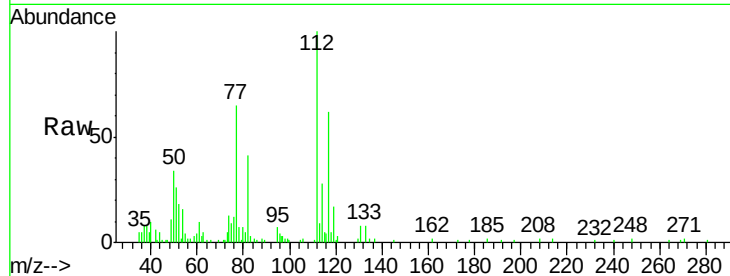
Tot Ion:112 Resp: 21752

Ion Ratio Lower Upper

112 100

77 58.1 52.6 78.8

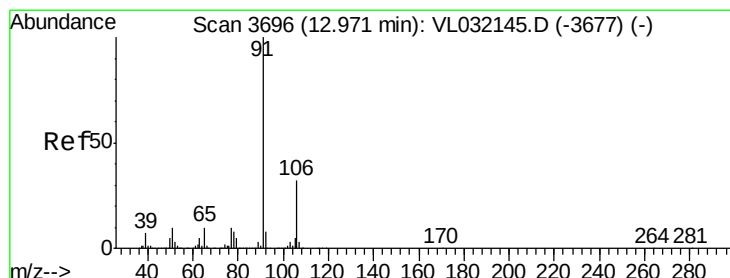
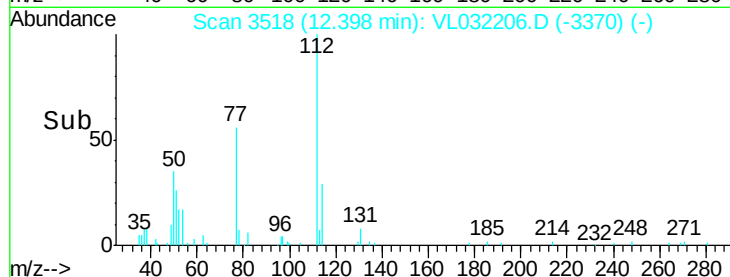
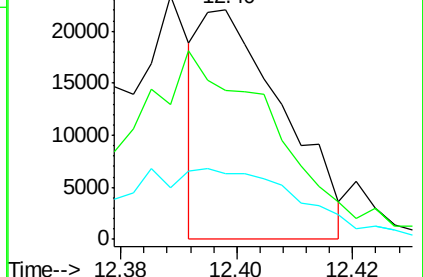
114 19.1 27.9 34.1#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.10 ppbv

RT: 12.96 min Scan# 3693

Delta R.T. -0.02 min

Lab File: VL032206.D

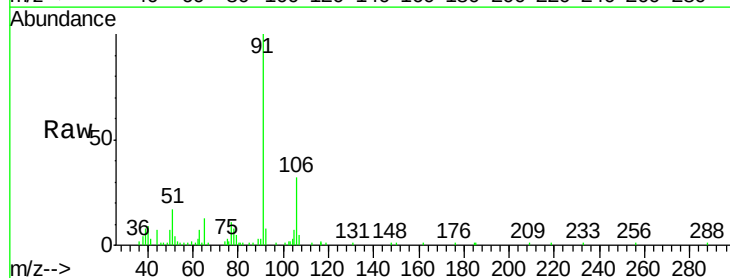
Acq: 5 Jul 2018 16:44

Tgt Ion: 91 Resp: 63219

Ion Ratio Lower Upper

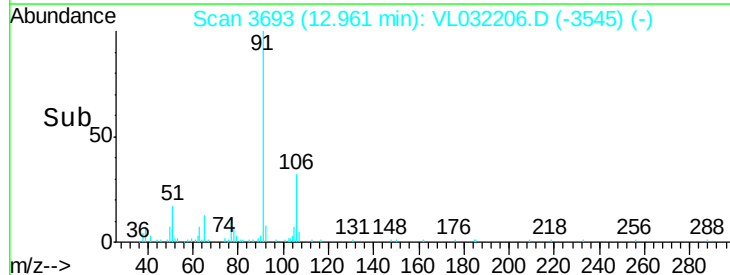
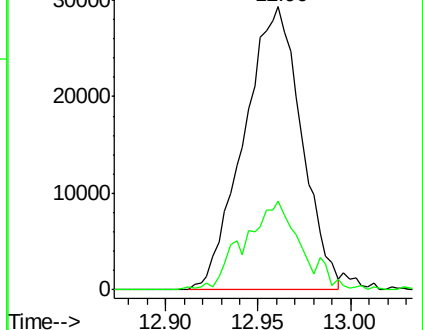
91 100

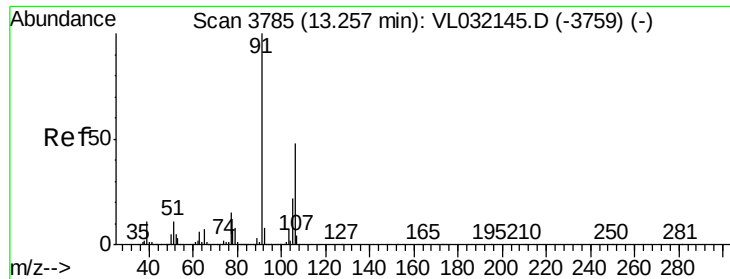
106 30.5 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.04 ppbv

RT: 13.24 min Scan# 3779

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

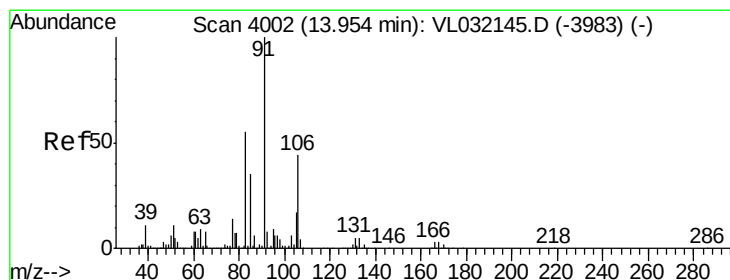
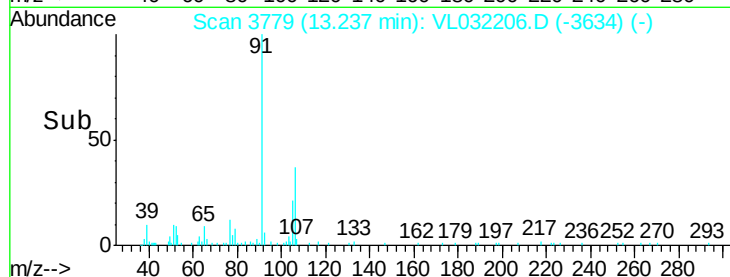
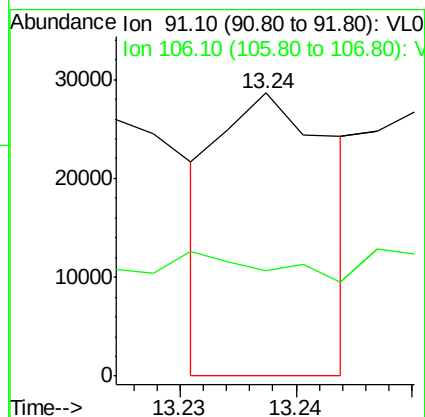
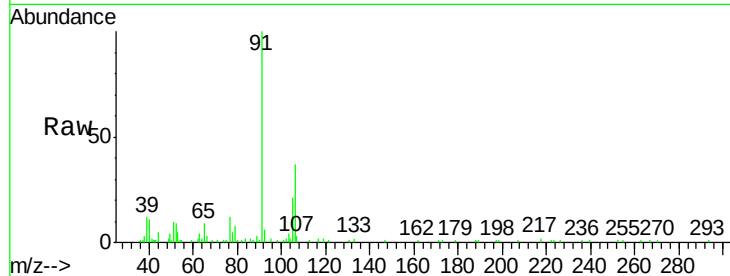
QC061318 CAN 10444

Tot Ion: 91 Resp: 19718

Ion Ratio Lower Upper

91 100

106 0.0 38.6 58.0#



#60

o-Xylene

Concen: 0.09 ppbv

RT: 13.94 min Scan# 3998

Delta R.T. -0.03 min

Lab File: VL032206.D

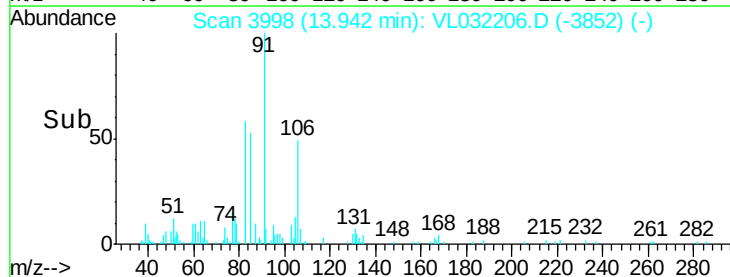
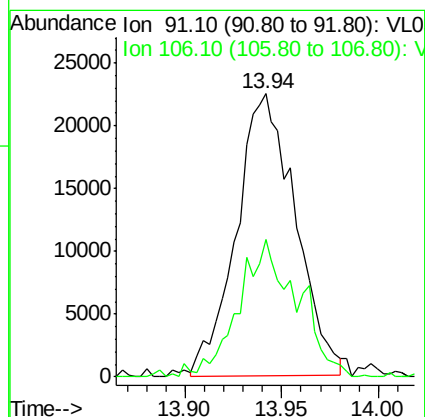
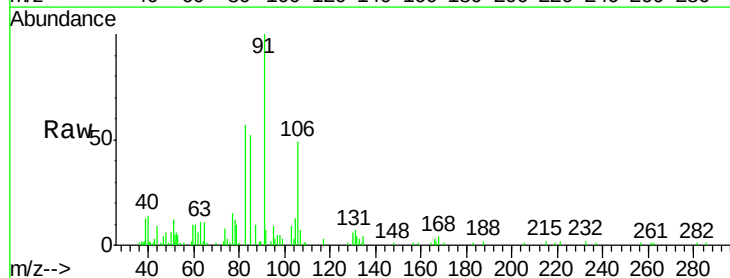
Acq: 5 Jul 2018 16:44

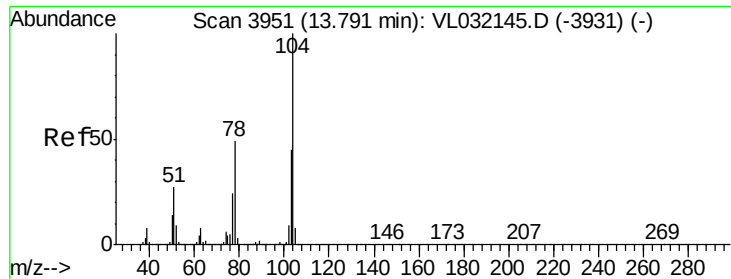
Tgt Ion: 91 Resp: 47661

Ion Ratio Lower Upper

91 100

106 49.4 23.3 69.8





#61

Stvrene

Concen: 0.07 ppbv

RT: 13.77 min Scan# 3946

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

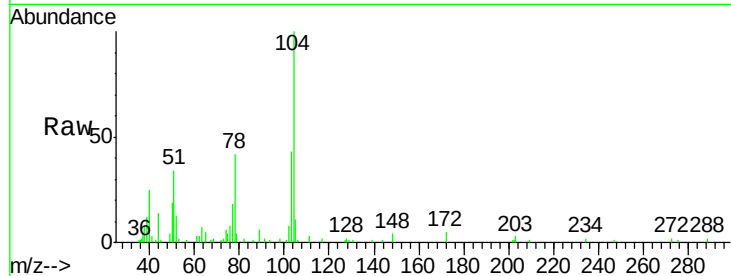
Tot Ion:104 Resp: 27069

Ion Ratio Lower Upper

104 100

78 0.0 37.9 56.9#

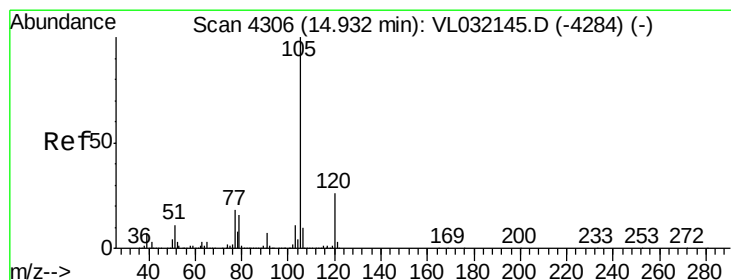
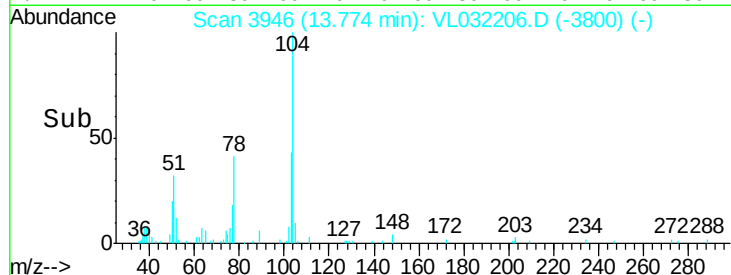
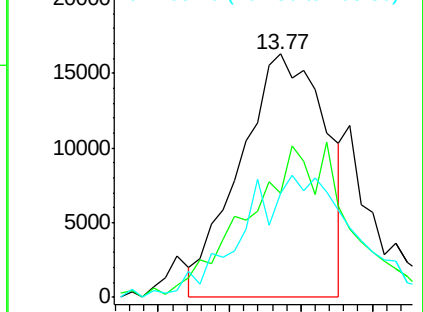
103 66.4 36.6 55.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.10 ppbv

RT: 14.92 min Scan# 4302

Delta R.T. -0.03 min

Lab File: VL032206.D

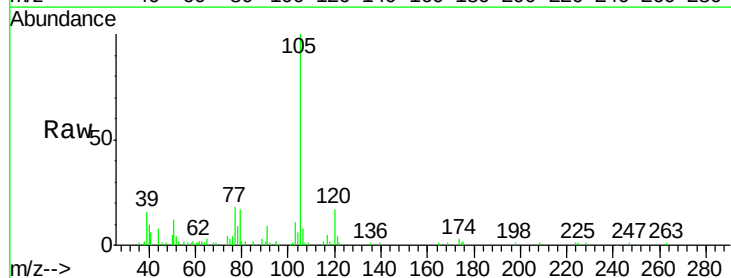
Acq: 5 Jul 2018 16:44

Tgt Ion:105 Resp: 73956

Ion Ratio Lower Upper

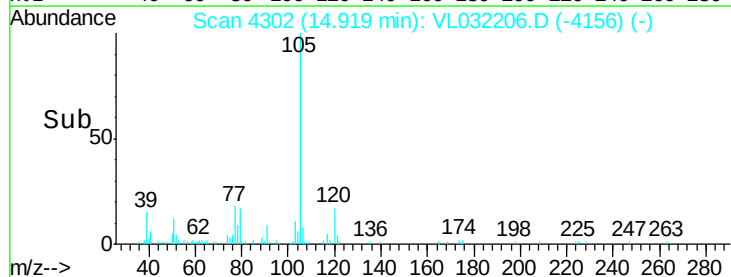
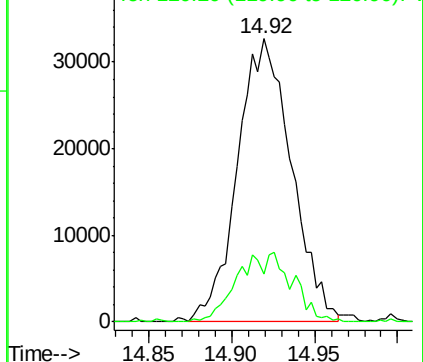
105 100

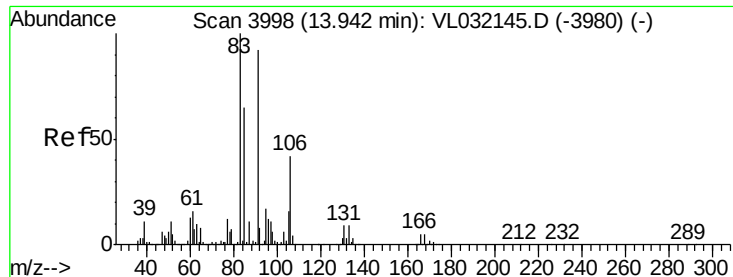
120 25.2 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

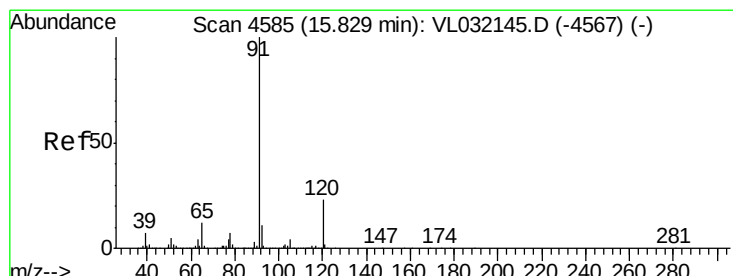
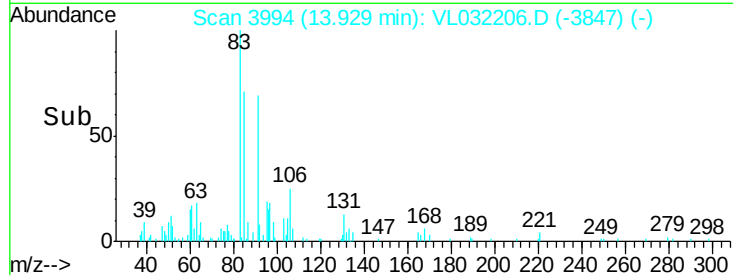
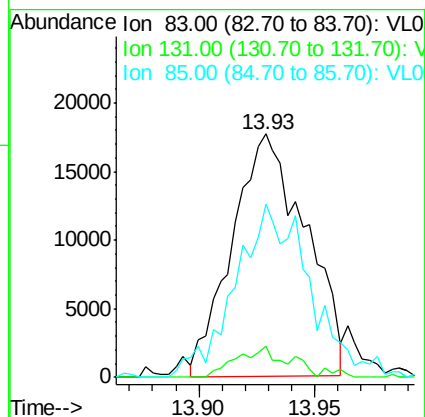
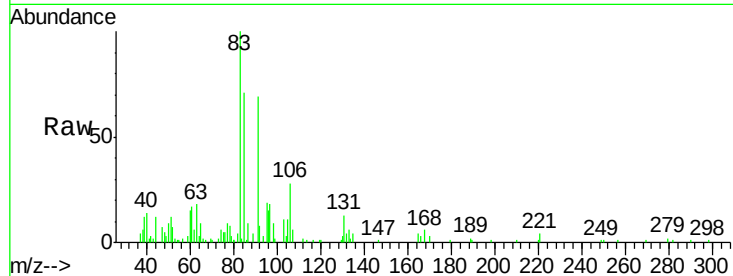




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.10 ppbv
 RT: 13.93 min Scan# 3994
 Delta R.T. -0.03 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

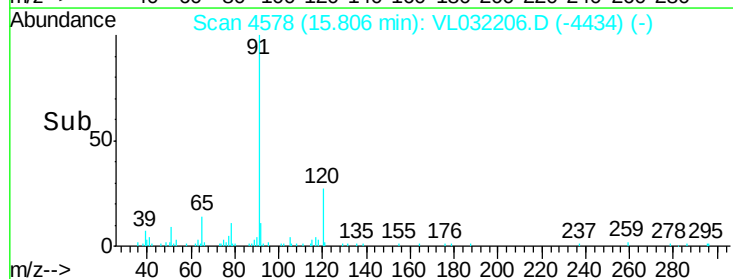
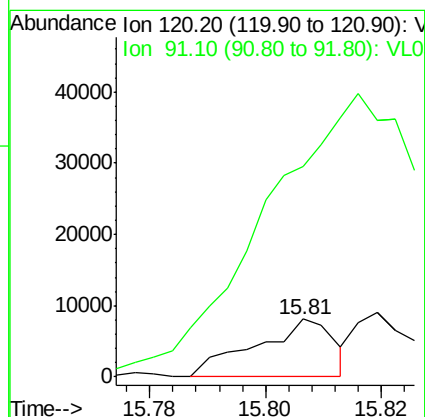
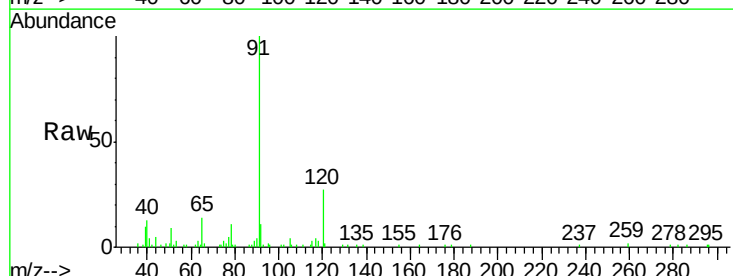
Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

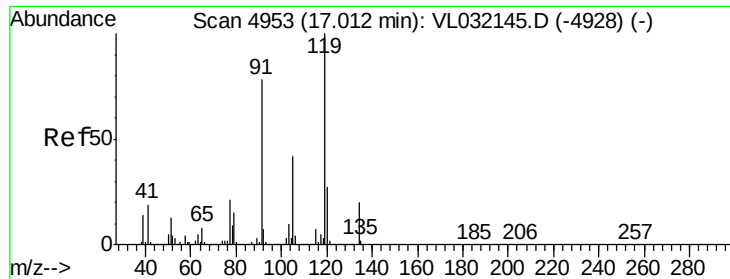
Tot Ion: 83 Resp: 39006
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.6 13.8
 85 72.9 32.4 97.2



#64
 n-propylbenzene
 Concen: 0.04 ppbv
 RT: 15.81 min Scan# 4578
 Delta R.T. -0.04 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Tgt Ion: 120 Resp: 7657
 Ion Ratio Lower Upper
 120 100
 91 0.0 357.4 536.0#

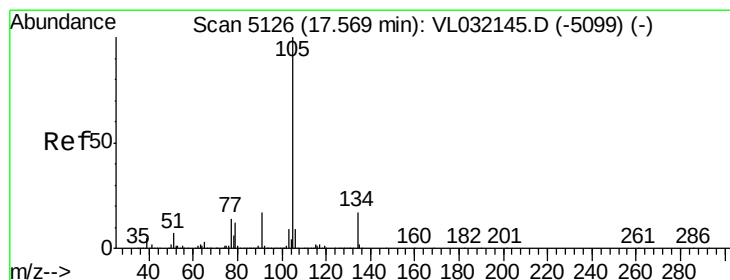
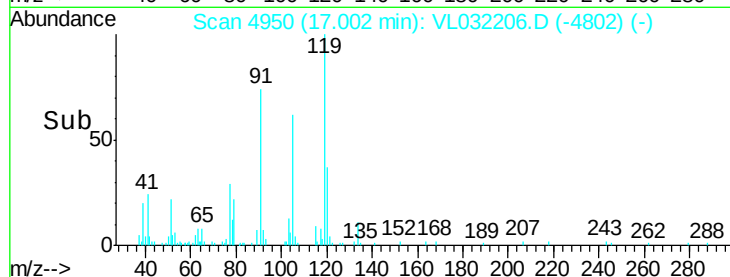
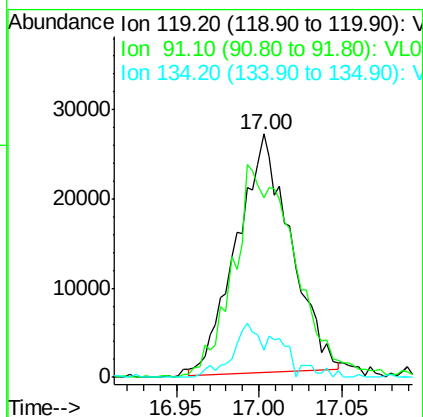
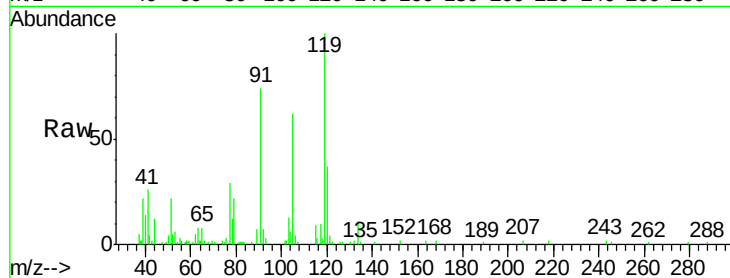




#65
tert-Butylbenzene
Concen: 0.09 ppbv
RT: 17.00 min Scan# 4950
Delta R.T. -0.02 min
Lab File: VL032206.D
Acq: 5 Jul 2018 16:44

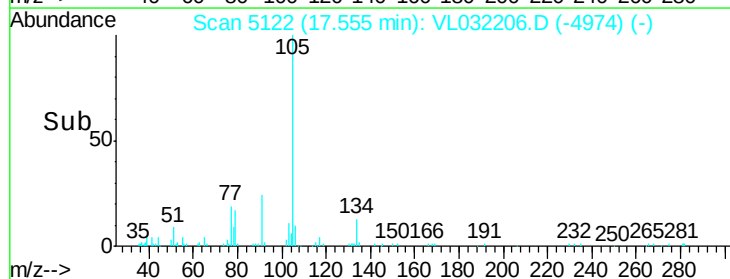
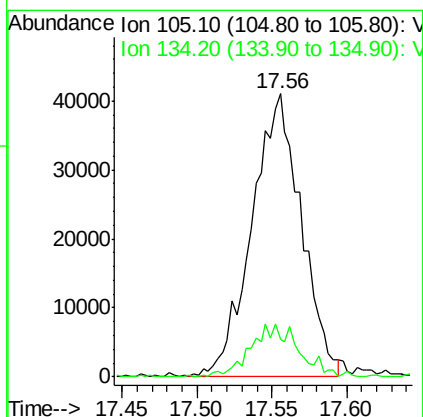
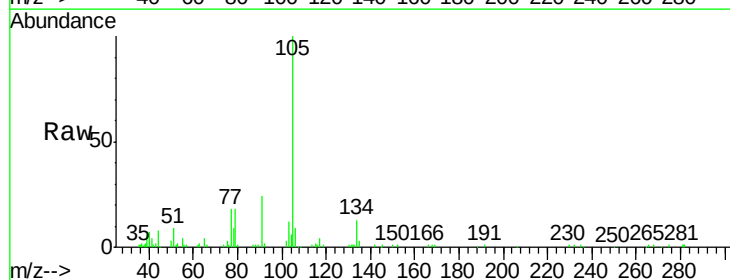
Instrument :
MSVOA_L
ClientSampleId :
QC061318 CAN 10444

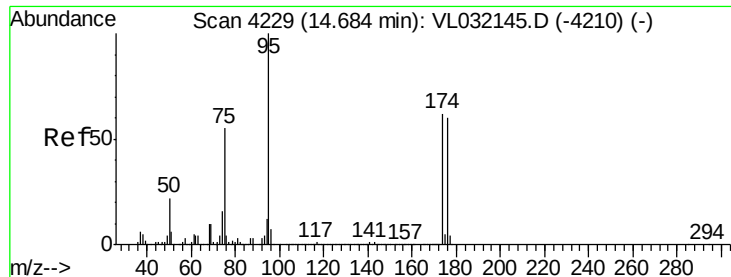
Tot Ion:119 Resp: 60568
Ion Ratio Lower Upper
119 100
91 103.2 62.2 93.2#
134 20.4 16.2 24.2



#67
sec-Butylbenzene
Concen: 0.09 ppbv
RT: 17.56 min Scan# 5122
Delta R.T. -0.02 min
Lab File: VL032206.D
Acq: 5 Jul 2018 16:44

Tgt Ion:105 Resp: 94138
Ion Ratio Lower Upper
105 100
134 18.4 14.7 22.1



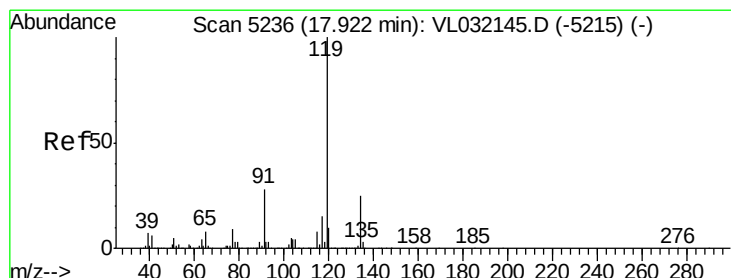
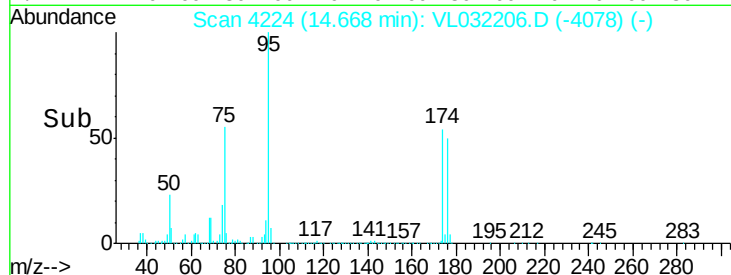
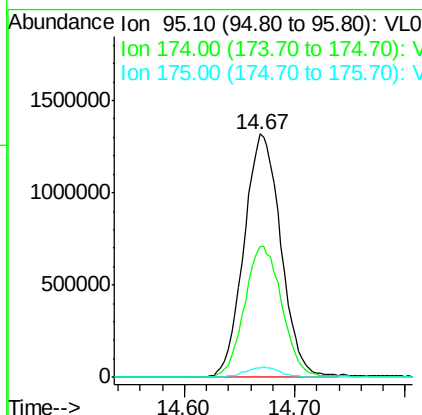
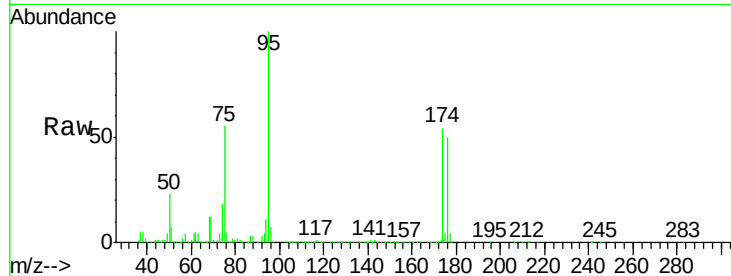


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.24 ppbv
 RT: 14.67 min Scan# 4224
 Delta R.T. -0.03 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

Tot Ion: 95 Resp: 3058209

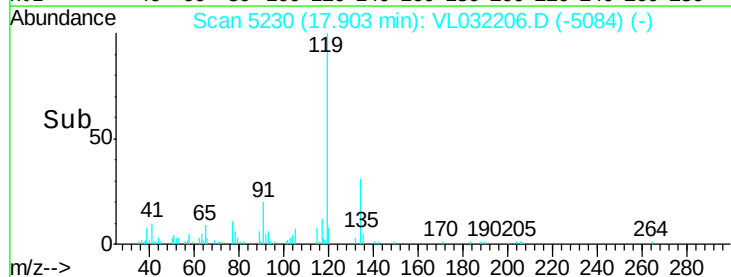
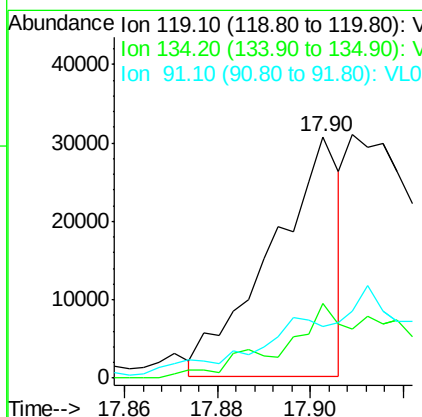
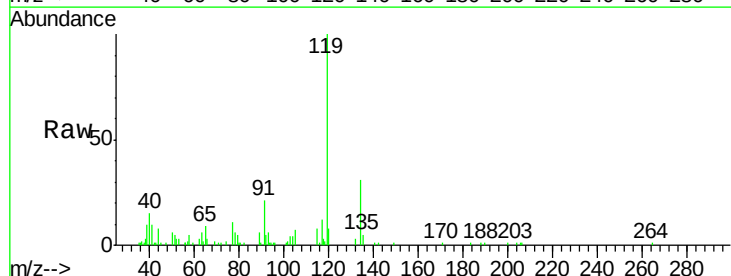
Ion	Ratio	Lower	Upper
95	100		
174	54.8	52.1	78.1
175	4.0	4.0	6.0

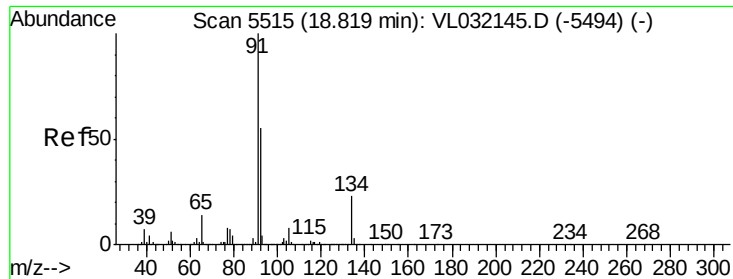


#69
 p-Isopropyltoluene
 Concen: 0.04 ppbv
 RT: 17.90 min Scan# 5230
 Delta R.T. -0.03 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Tgt Ion: 119 Resp: 31457

Ion	Ratio	Lower	Upper
119	100		
134	60.1	20.7	31.1#
91	0.0	21.8	32.8#





#70

n-Butylbenzene

Concen: 0.06 ppbv

RT: 18.81 min Scan# 5513

Delta R.T. -0.02 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

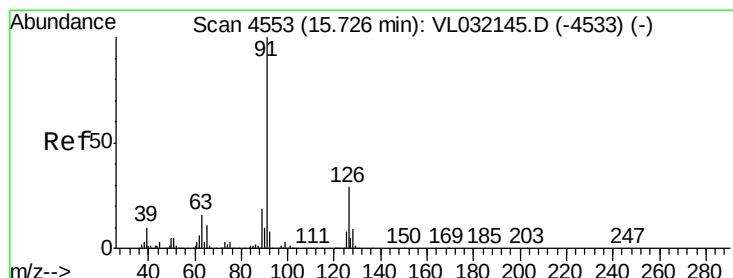
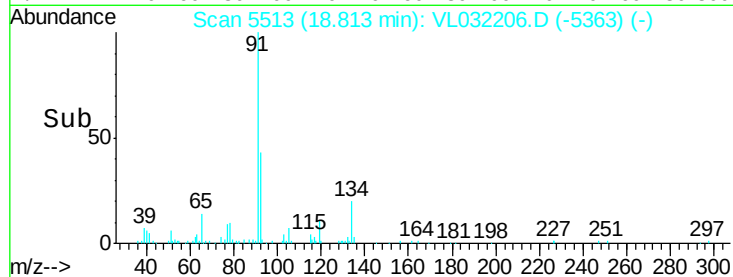
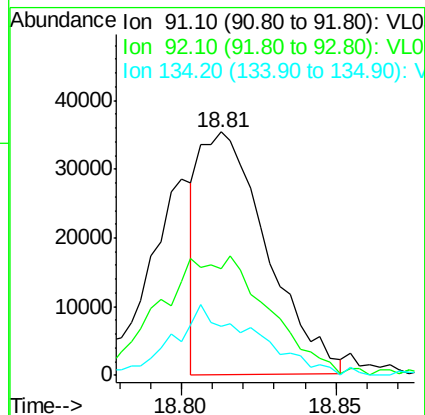
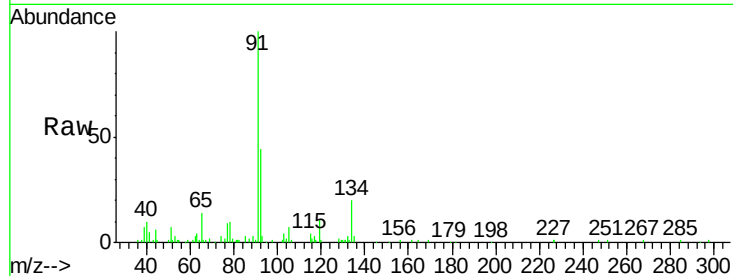
Tot Ion: 91 Resp: 53450

Ion Ratio Lower Upper

91 100

92 80.5 43.7 65.5#

134 37.6 18.9 28.3#



#71

2-Chlorotoluene

Concen: 0.09 ppbv

RT: 15.71 min Scan# 4548

Delta R.T. -0.03 min

Lab File: VL032206.D

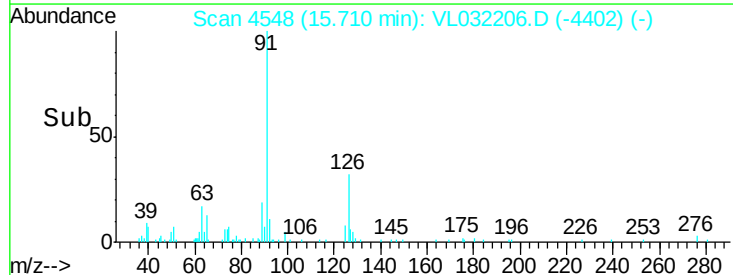
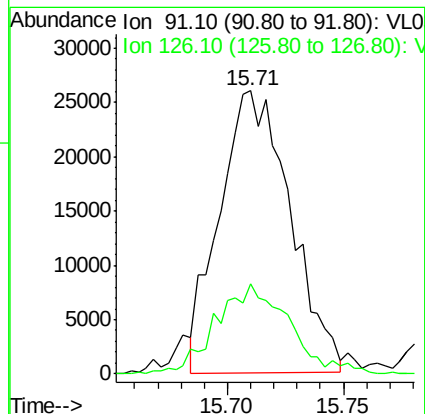
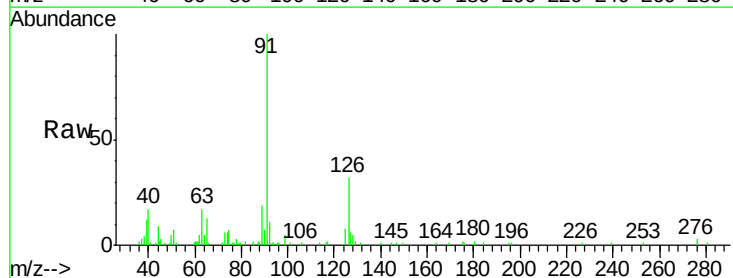
Acq: 5 Jul 2018 16:44

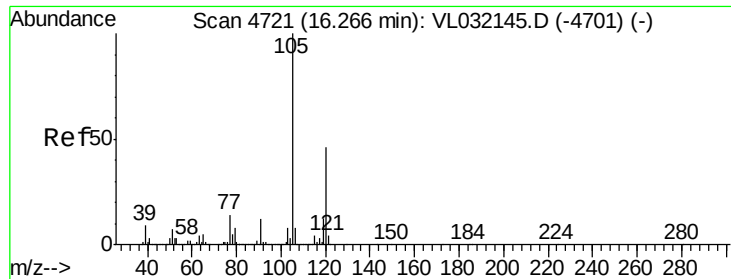
Tgt Ion: 91 Resp: 55153

Ion Ratio Lower Upper

91 100

126 32.8 12.8 51.0

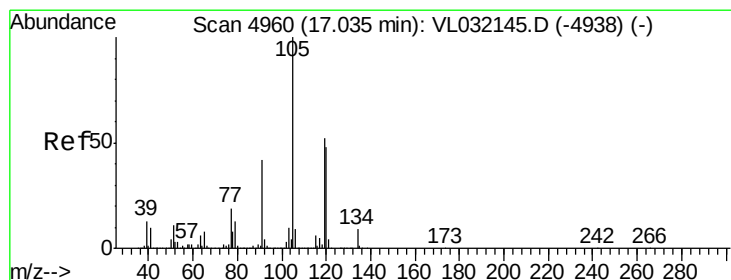
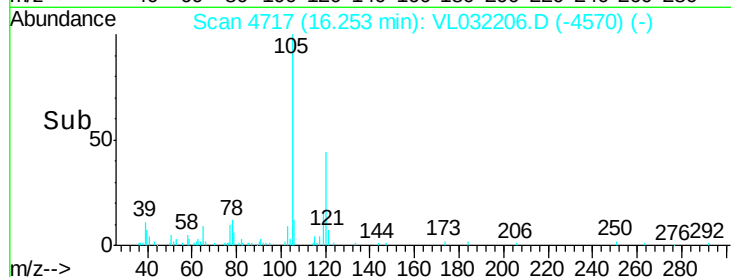
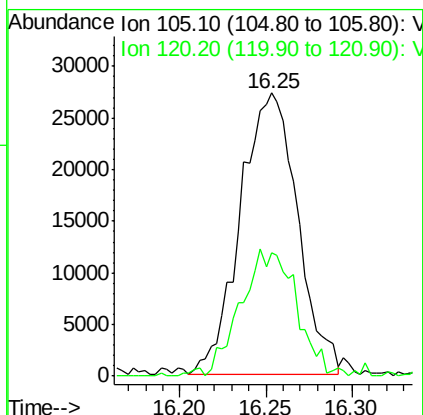
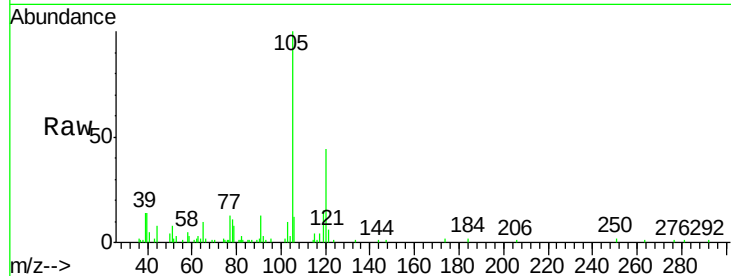




#73
 1,3,5-Trimethylbenzene
 Concen: 0.10 ppbv
 RT: 16.25 min Scan# 4717
 Delta R.T. -0.03 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

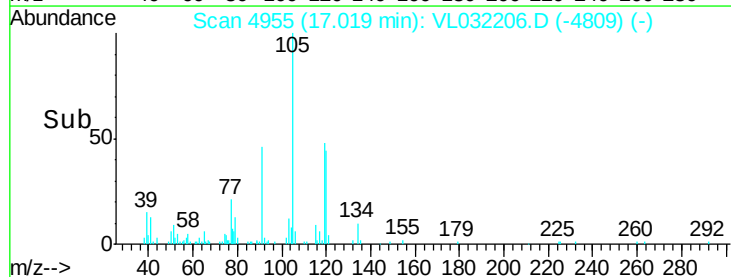
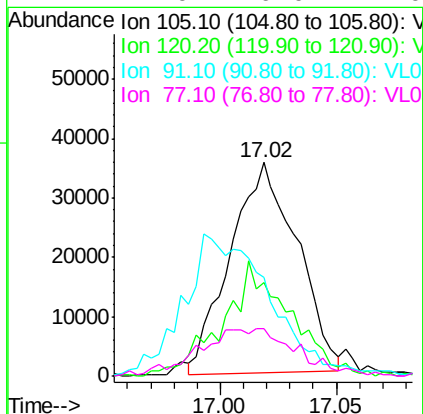
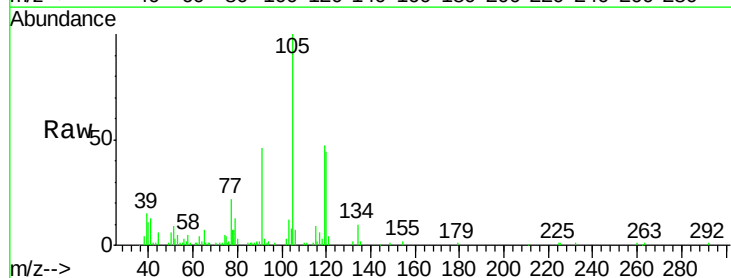
Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

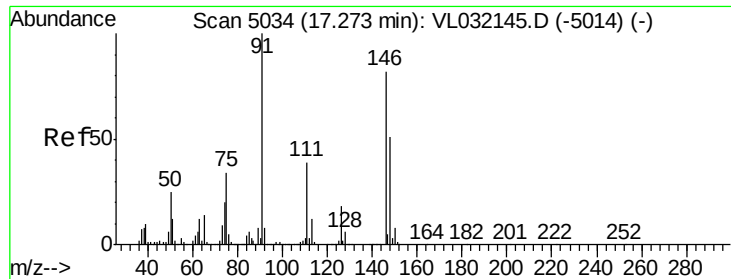
Tot Ion:105 Resp: 62807
 Ion Ratio Lower Upper
 105 100
 120 42.7 38.6 57.8



#74
 1,2,4-Trimethylbenzene
 Concen: 0.12 ppbv
 RT: 17.02 min Scan# 4955
 Delta R.T. -0.03 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Tgt Ion:105 Resp: 71147
 Ion Ratio Lower Upper
 105 100
 120 42.0 38.8 58.2
 91 44.4 33.6 50.4
 77 21.0 16.0 24.0





#75

1,3-Dichlorobenzene

Concen: 0.08 ppbv

RT: 17.26 min Scan# 5029

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

Instrument :

MSVOA_L

ClientSampleId :

QC061318 CAN 10444

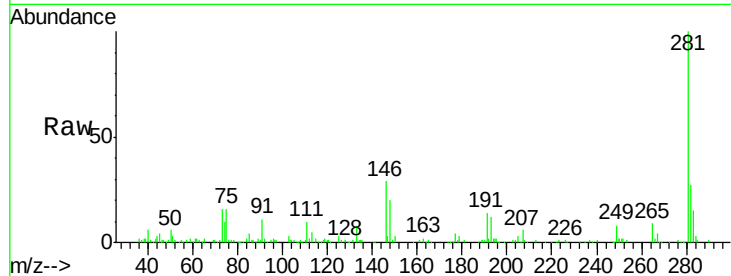
Tot Ion:146 Resp: 27709

Ion Ratio Lower Upper

146 100

111 108.4 22.9 68.8#

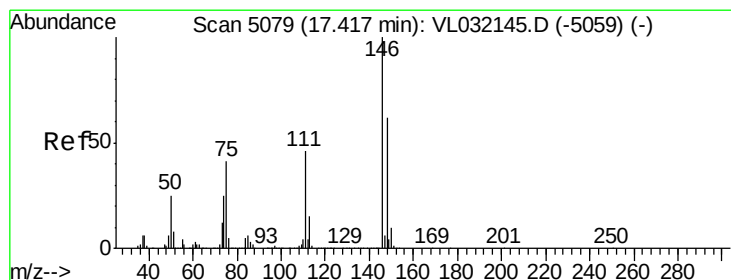
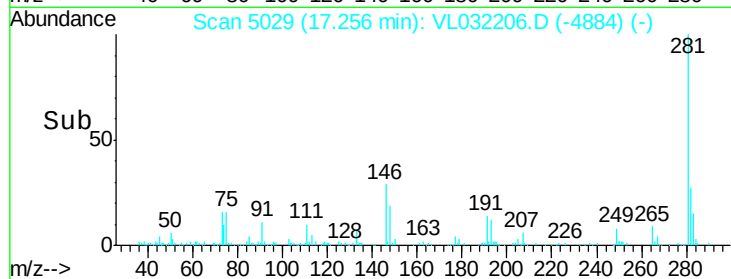
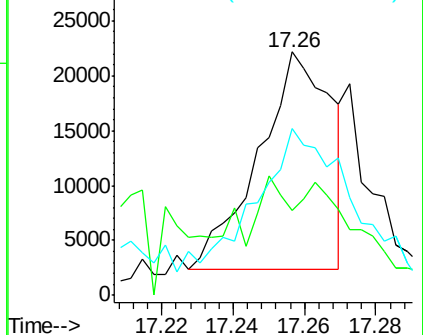
148 121.8 31.7 95.1#



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: 0.04 ppbv

RT: 17.39 min Scan# 5072

Delta R.T. -0.03 min

Lab File: VL032206.D

Acq: 5 Jul 2018 16:44

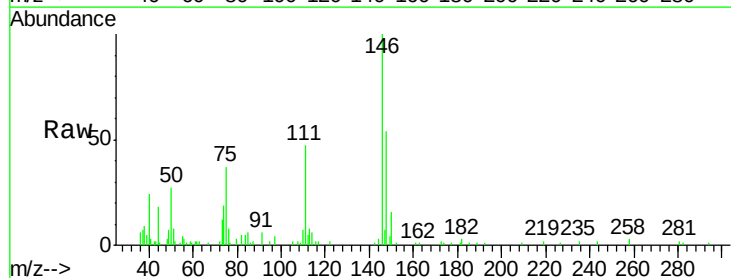
Tgt Ion:146 Resp: 15811

Ion Ratio Lower Upper

146 100

111 0.0 21.9 65.8#

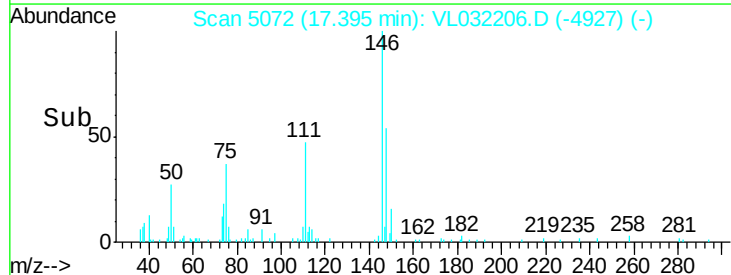
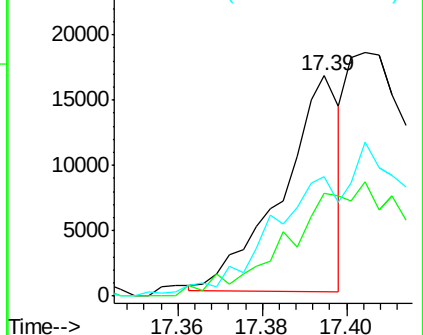
148 0.0 32.1 96.5#

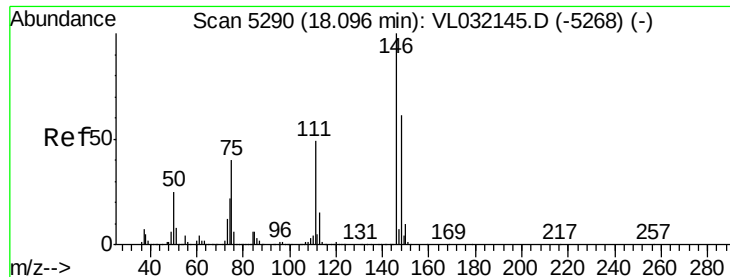


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

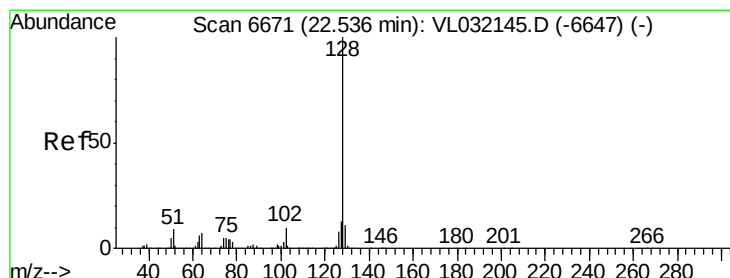
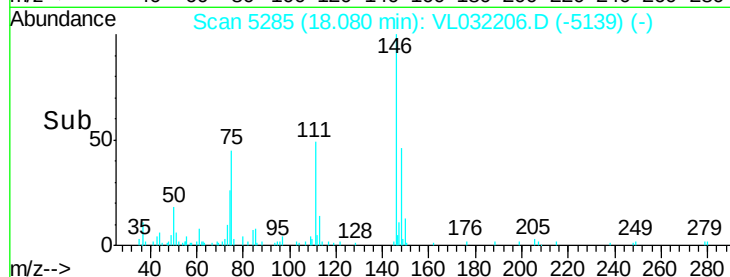
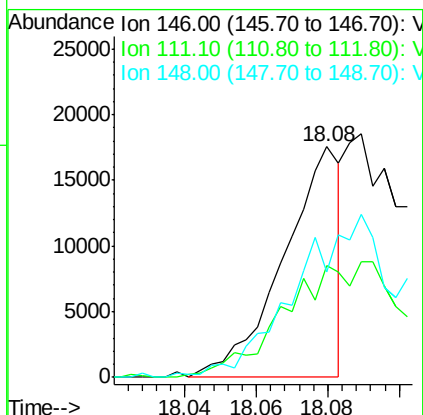
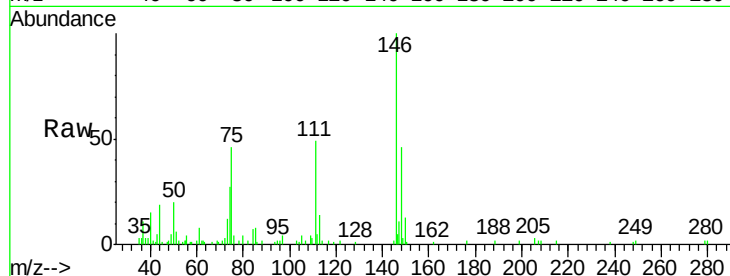




#77
 1,2-Dichlorobenzene
 Concen: 0.05 ppbv
 RT: 18.08 min Scan# 5285
 Delta R.T. -0.03 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

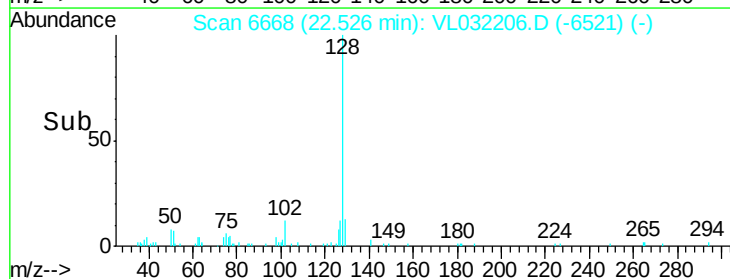
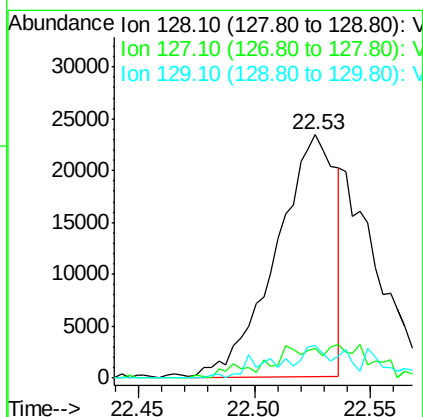
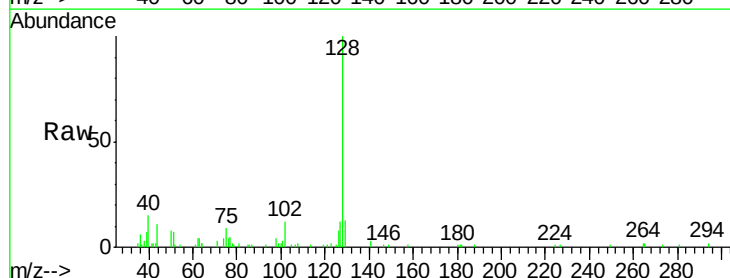
Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

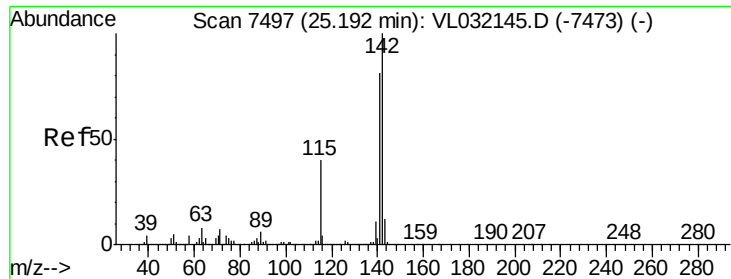
Tot Ion:146 Resp: 19323
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.4 70.3#
 148 0.0 32.0 96.0#



#79
 Naphthalene
 Concen: 0.07 ppbv
 RT: 22.53 min Scan# 6668
 Delta R.T. -0.03 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Tgt Ion:128 Resp: 41469
 Ion Ratio Lower Upper
 128 100
 127 11.4 10.5 15.7
 129 13.6 9.0 13.6#





#80
 Naphthalene, 2-methyl-
 Concen: 0.20 ppbv
 RT: 25.19 min Scan# 7496
 Delta R.T. -0.02 min
 Lab File: VL032206.D
 Acq: 5 Jul 2018 16:44

Instrument :
 MSVOA_L
 ClientSampleId :
 QC061318 CAN 10444

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.4	65.8	98.6
115	41.6	29.4	44.0

