

Data File : VL033724.D
Acq On : 20 May 2019 14:51
Operator : SY/AP
Sample : CAN 10758
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10758

Quant Time: May 21 01:32:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1039236	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2406441	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2533823	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 2074049 10.10 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.00%

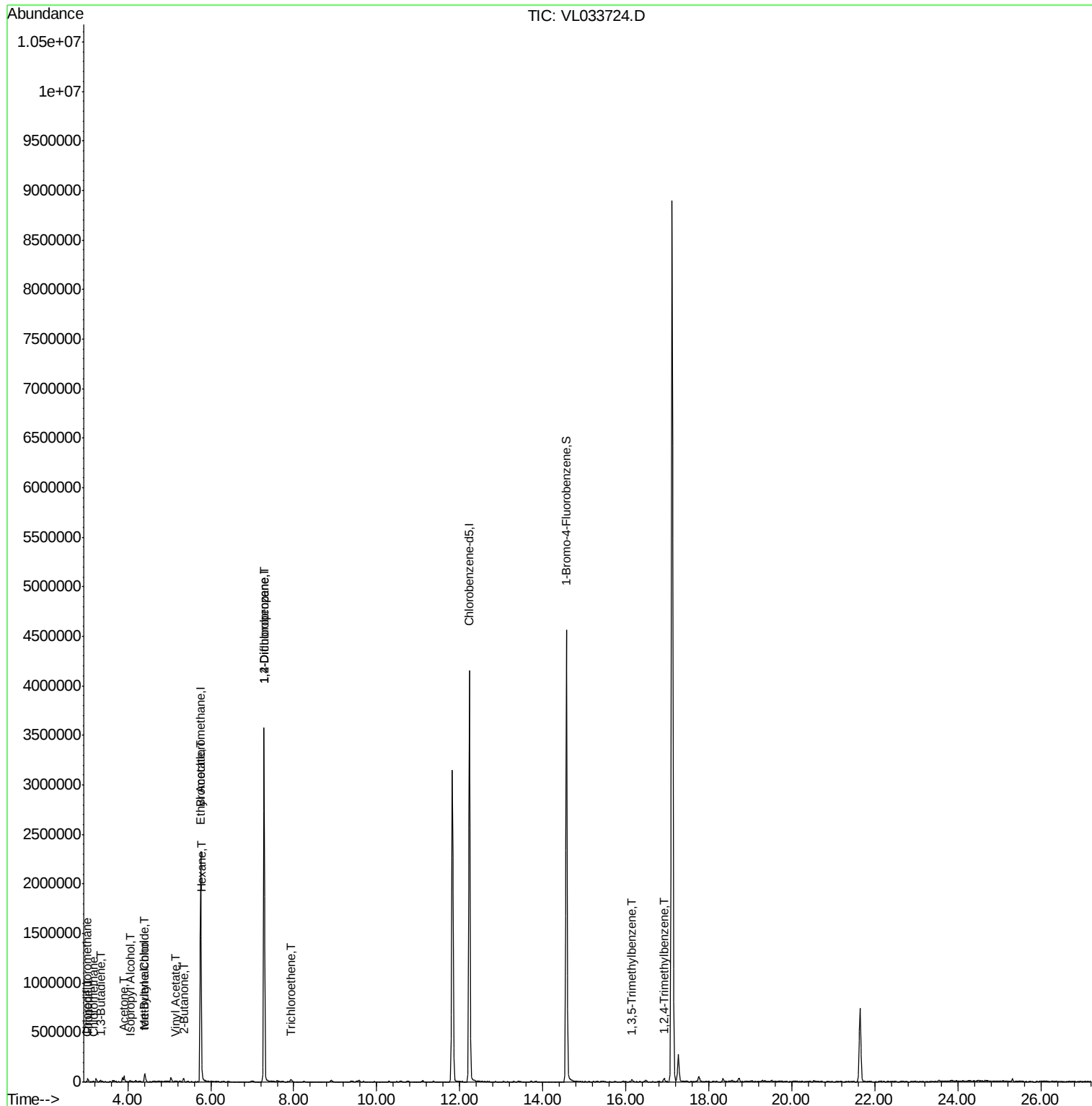
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.01	51	2503	0.021	ppbv #	57
4) Chloromethane	3.17	50	2193	0.032	ppbv #	57
9) Propene	3.04	41	2636	0.052	ppbv #	66
15) Acetone	3.91	43	59764	0.414	ppbv	91
16) 1,3-Butadiene	3.34	39	4255	0.074	ppbv #	6
17) tert-Butyl alcohol	4.39	59	1605	0.014	ppbv	98
19) Isopropyl Alcohol	4.05	45	5987	0.064	ppbv #	94
20) Methylene Chloride	4.41	84	24571	0.443	ppbv	94
23) Vinyl Acetate	5.15	43	2043	0.011	ppbv #	34
25) Ethyl Acetate	5.77	43	5685	0.022	ppbv #	83
26) Hexane	5.78	57	13172	0.121	ppbv #	39
34) 2-Butanone	5.34	43	35766	0.240	ppbv	100
38) Trichloroethene	7.95	130	1025	0.013	ppbv #	32
39) 1,2-Dichloropropane	7.28	63	630422	7.725	ppbv #	22
73) 1,3,5-Trimethylbenzene	16.15	105	14542	0.044	ppbv	95
74) 1,2,4-Trimethylbenzene	16.91	105	12986	0.036	ppbv #	68

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

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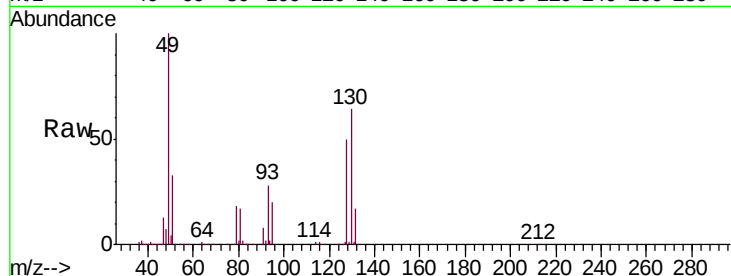
Tgt Ion: 49 Resp: 1039236

Ion Ratio Lower Upper

49 100

128 49.8 25.2 75.6

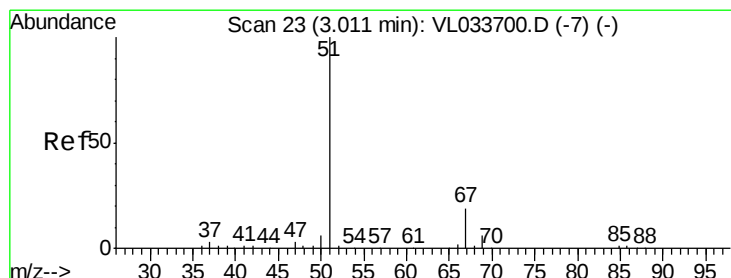
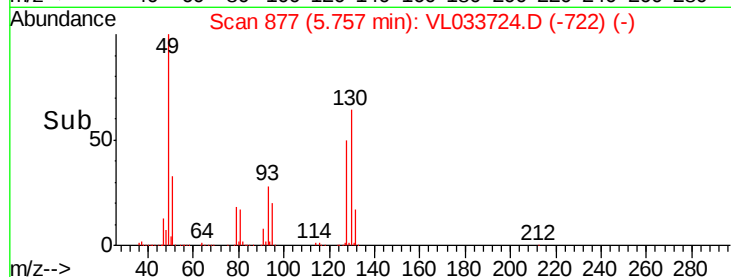
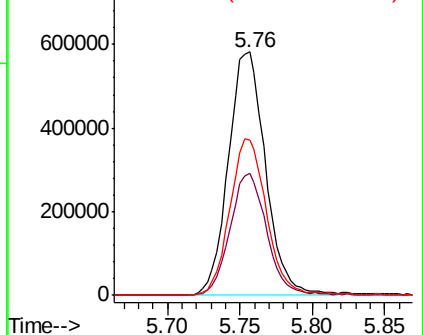
130 63.9 32.5 97.5



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



#3

Chlorodifluoromethane

Concen: 0.021 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL033724.D

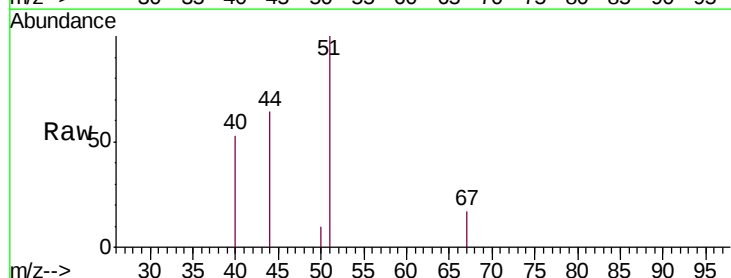
Acq: 20 May 2019 14:51

Tgt Ion: 51 Resp: 2503

Ion Ratio Lower Upper

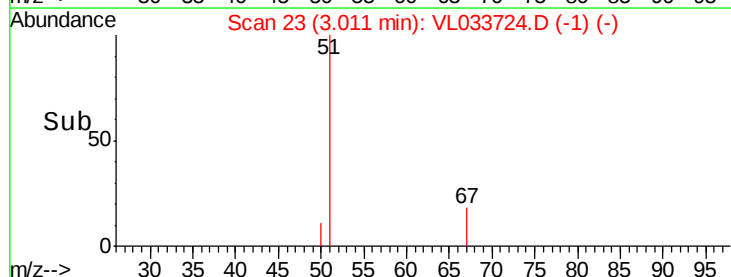
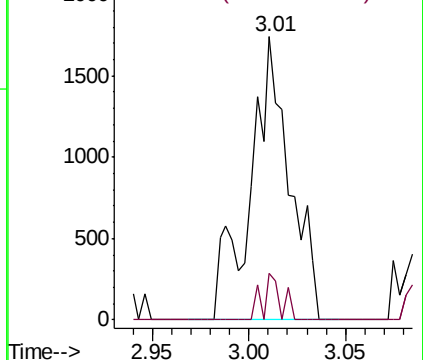
51 100

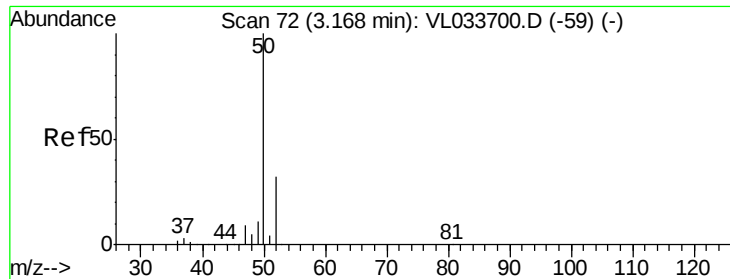
67 0.0 15.6 23.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.032 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033724.D

Acq: 20 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

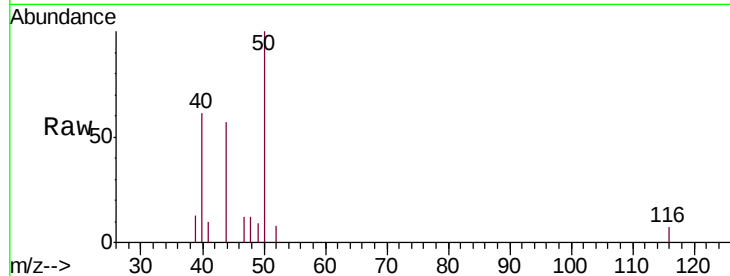
CAN 10758

Tgt Ion: 50 Resp: 2193

Ion Ratio Lower Upper

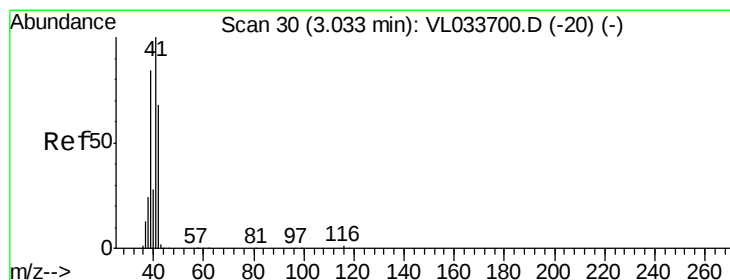
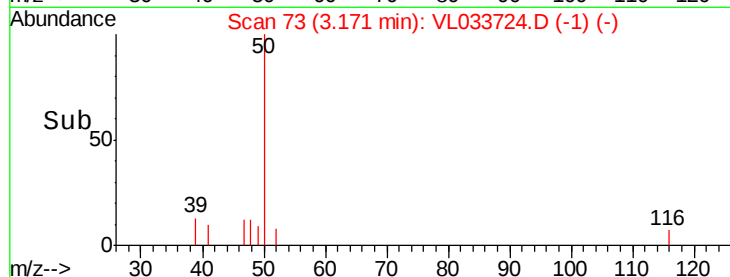
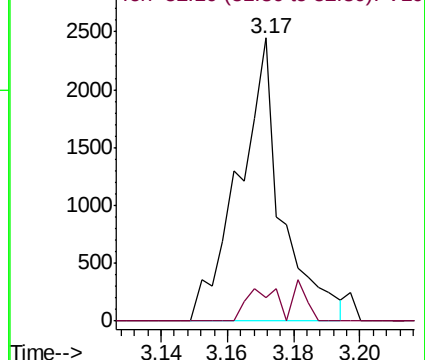
50 100

52 8.2 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.052 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033724.D

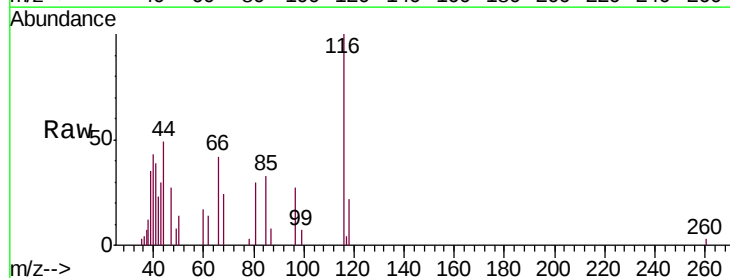
Acq: 20 May 2019 14:51

Tgt Ion: 41 Resp: 2636

Ion Ratio Lower Upper

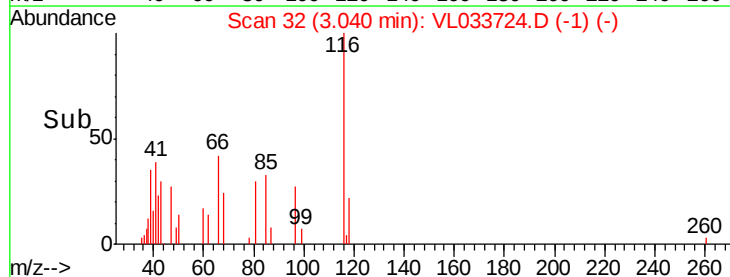
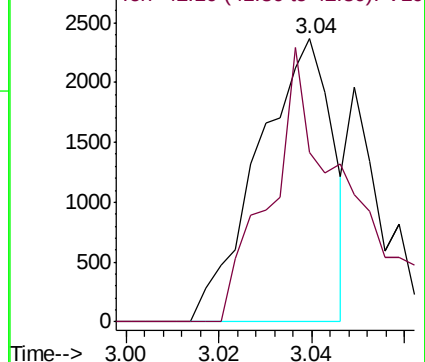
41 100

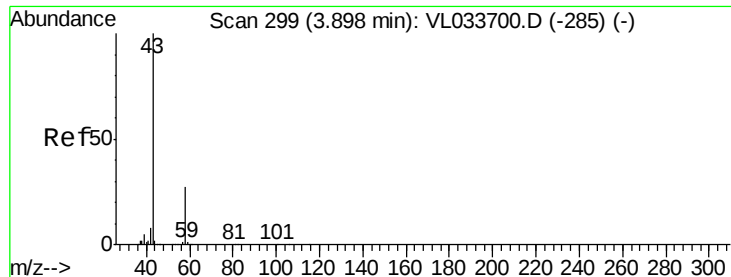
42 98.3 56.1 84.1#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 0.414 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

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Instrument :

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ClientSampleId :

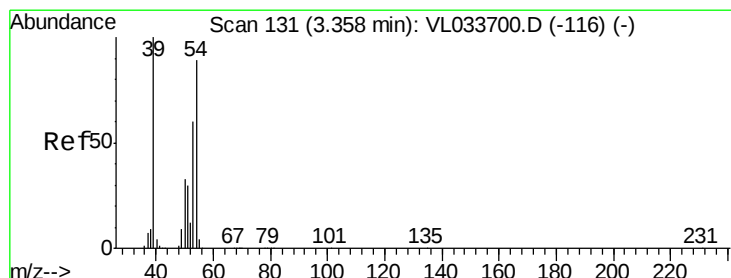
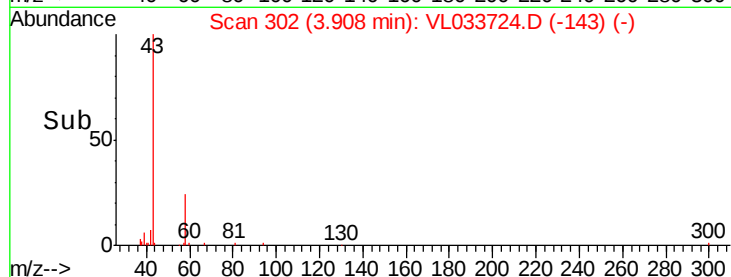
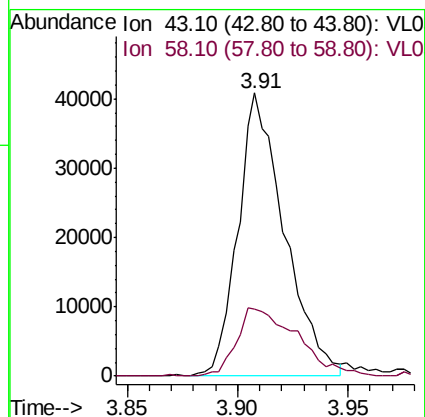
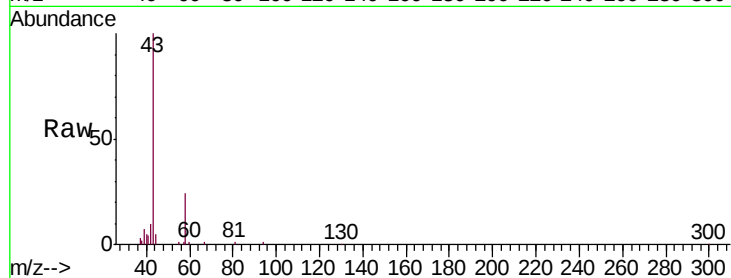
CAN 10758

Tgt Ion: 43 Resp: 59764

Ion Ratio Lower Upper

43 100

58 31.4 21.3 31.9



#16

1,3-Butadiene

Concen: 0.074 ppbv

RT: 3.34 min Scan# 125

Delta R.T. -0.02 min

Lab File: VL033724.D

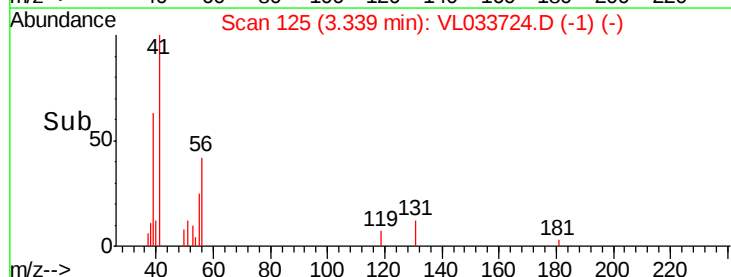
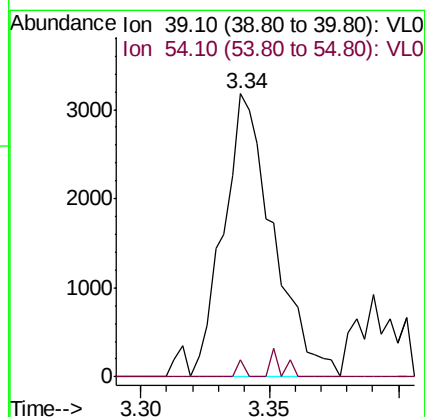
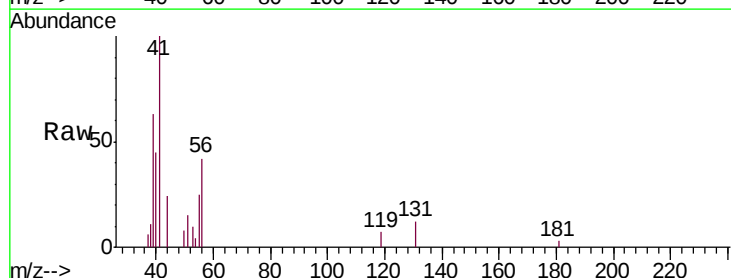
Acq: 20 May 2019 14:51

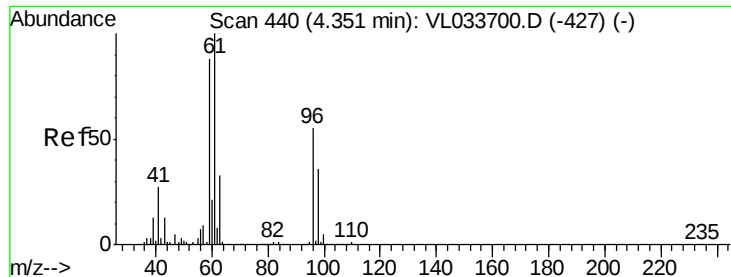
Tgt Ion: 39 Resp: 4255

Ion Ratio Lower Upper

39 100

54 0.0 69.0 103.6#

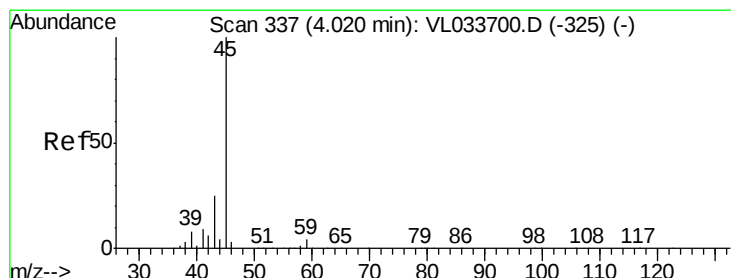
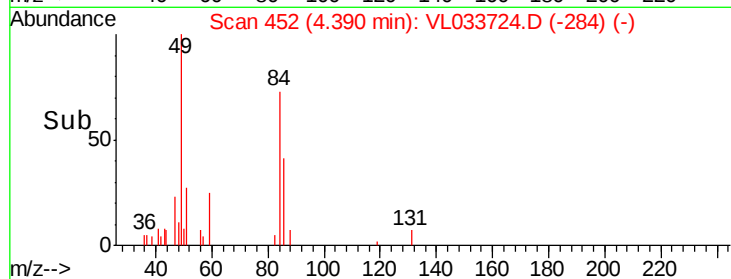
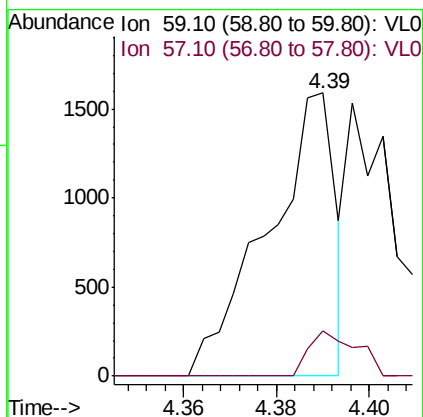
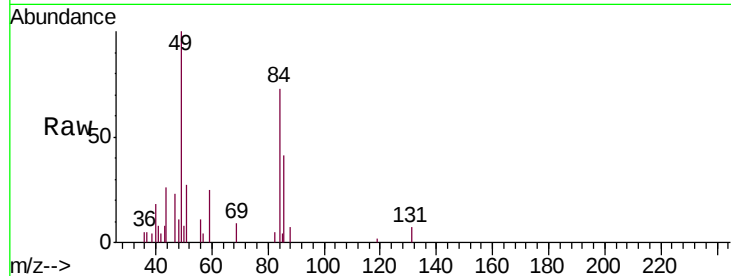




#17
 tert-Butyl alcohol
 Concen: 0.014 ppbv
 RT: 4.39 min Scan# 452
 Delta R.T. 0.04 min
 Lab File: VL033724.D
 Acq: 20 May 2019 14:51

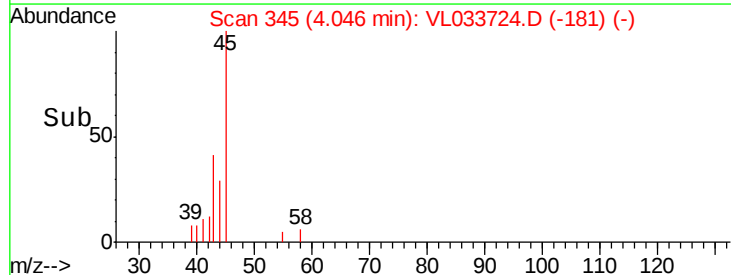
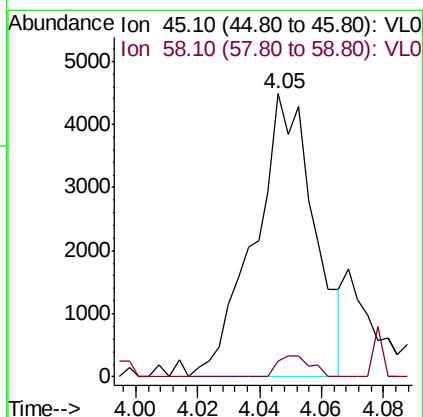
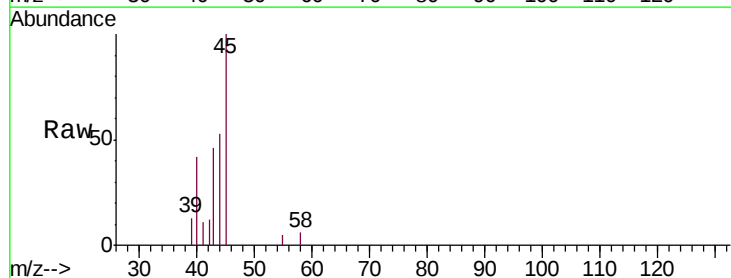
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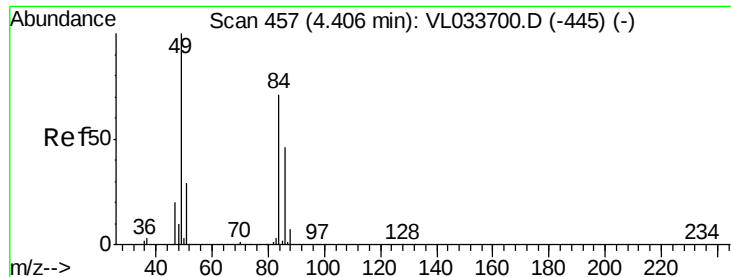
Tgt Ion: 59 Resp: 1605
 Ion Ratio Lower Upper
 59 100
 57 11.2 8.4 12.6



#19
 Isopropyl Alcohol
 Concen: 0.064 ppbv
 RT: 4.05 min Scan# 345
 Delta R.T. 0.03 min
 Lab File: VL033724.D
 Acq: 20 May 2019 14:51

Tgt Ion: 45 Resp: 5987
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.6 2.4#

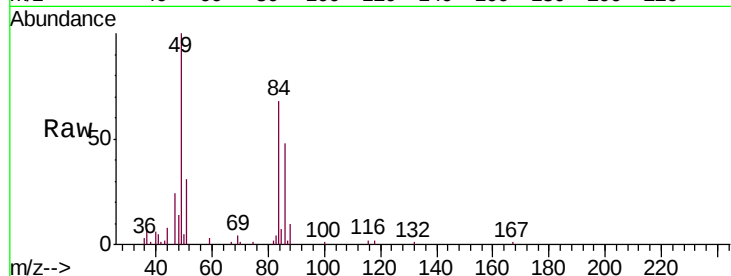




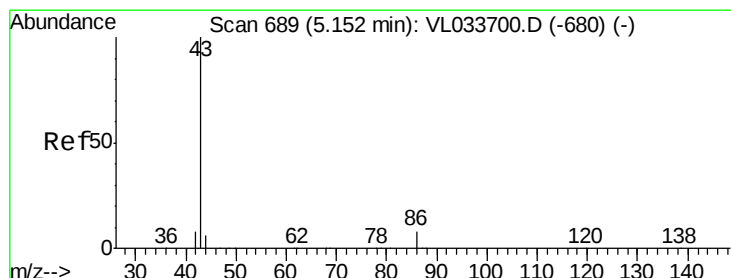
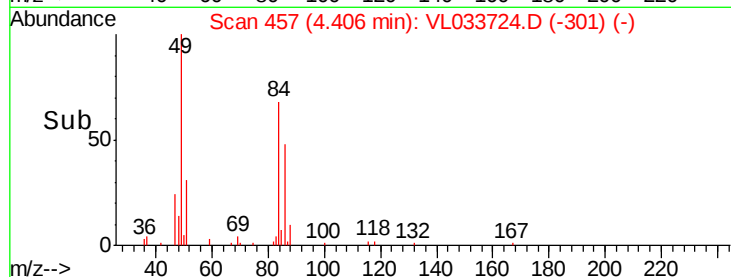
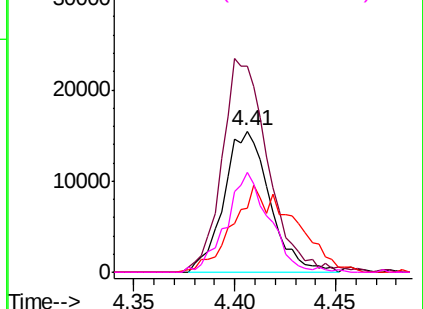
#20
Methylene Chloride
Concen: 0.443 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033724.D
Acq: 20 May 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
CAN 10758

Tgt Ion:	84	Resp:	24571
Ion	Ratio	Lower	Upper
84	100		
49	150.1	112.8	169.2
51	43.8	33.4	50.0
86	68.8	51.7	77.5

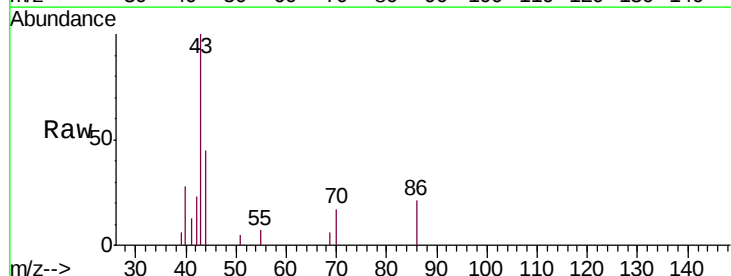


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

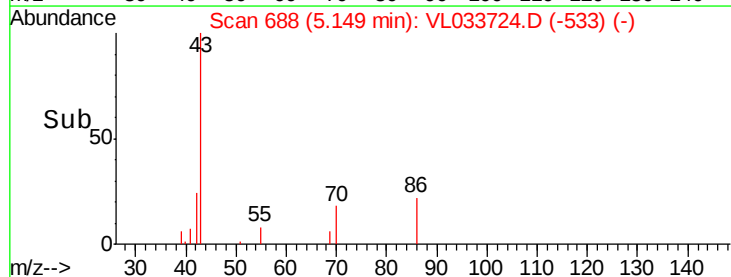
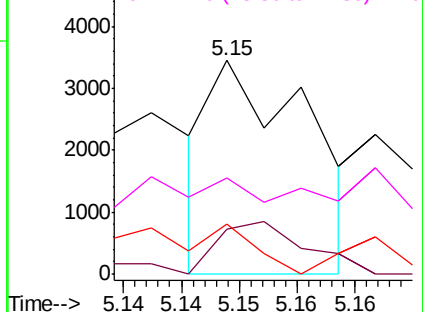


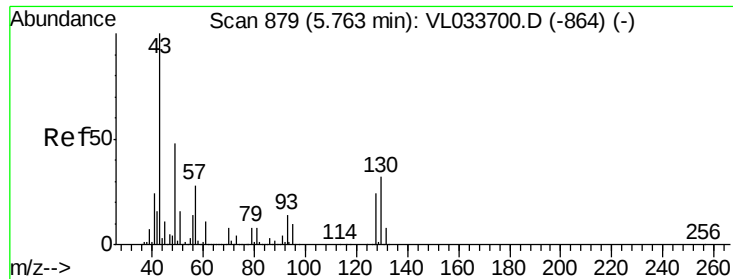
#23
Vinyl Acetate
Concen: 0.011 ppbv
RT: 5.15 min Scan# 688
Delta R.T. -0.00 min
Lab File: VL033724.D
Acq: 20 May 2019 14:51

Tgt Ion:	43	Resp:	2043
Ion	Ratio	Lower	Upper
43	100		
86	42.9	6.0	9.0#
42	27.2	7.5	11.3#
44	21.9	4.4	6.6#



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

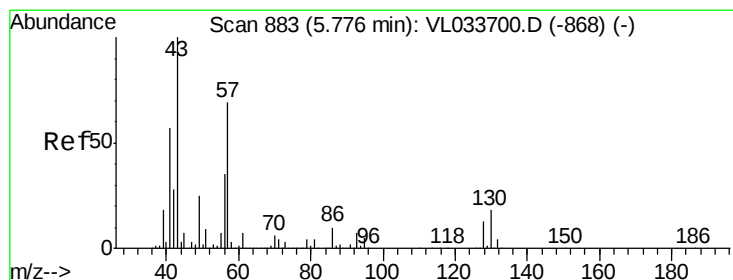
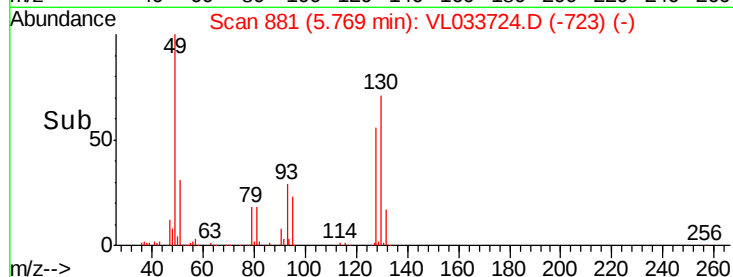
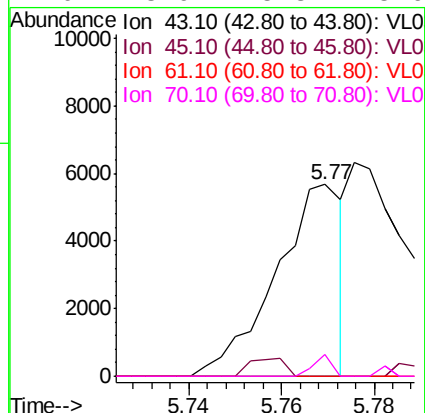
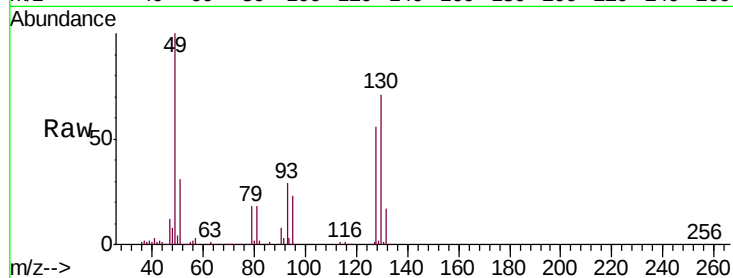




#25
Ethyl Acetate
Concen: 0.022 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033724.D
Acq: 20 May 2019 14:51

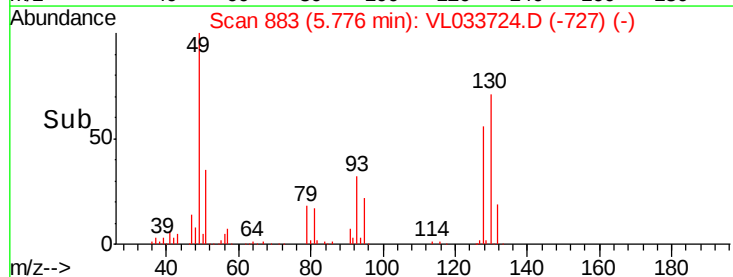
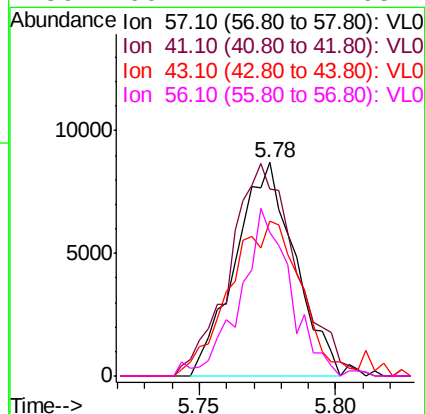
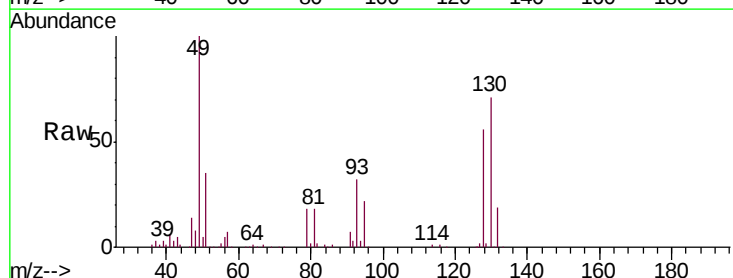
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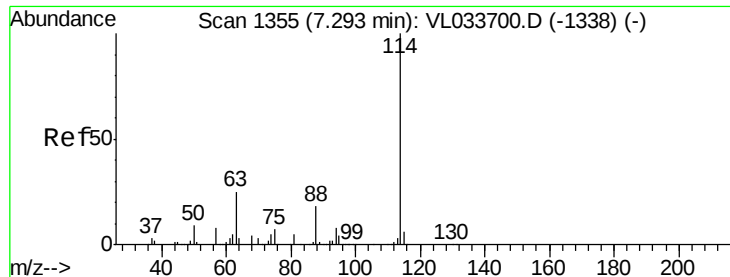
Tgt Ion:	43	Resp:	5685
Ion	Ratio	Lower	Upper
43	100		
45	4.9	7.9	11.9#
61	0.0	7.7	11.5#
70	3.9	5.8	8.6#



#26
Hexane
Concen: 0.121 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033724.D
Acq: 20 May 2019 14:51

Tgt Ion:	57	Resp:	13172
Ion	Ratio	Lower	Upper
57	100		
41	111.1	69.8	104.6#
43	88.8	181.8	272.6#
56	66.7	42.1	63.1#

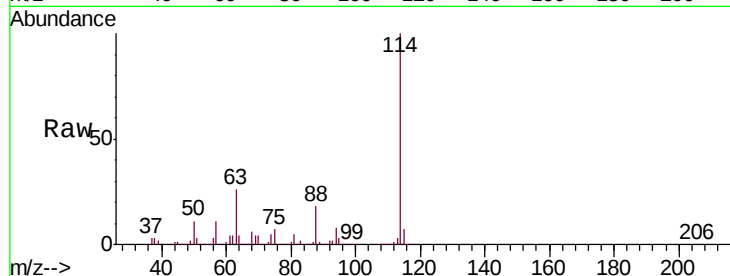




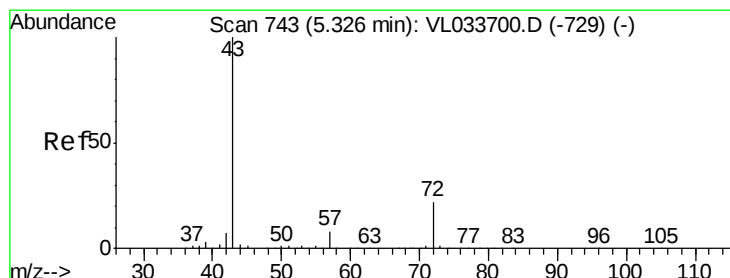
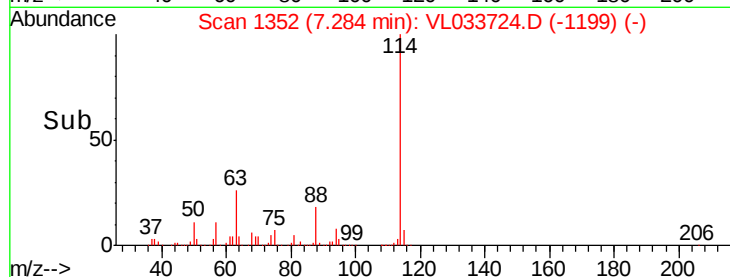
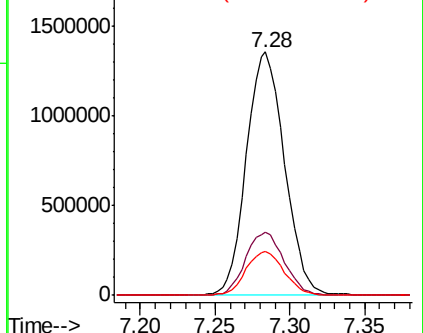
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033724.D
 Acq: 20 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10758

Tgt Ion: 114 Resp: 2406441
 Ion Ratio Lower Upper
 114 100
 63 26.3 20.9 31.3
 88 18.0 14.3 21.5

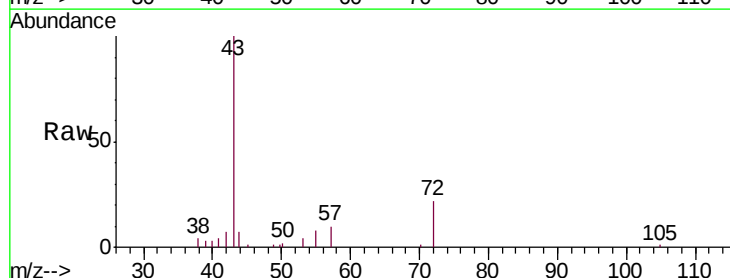


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

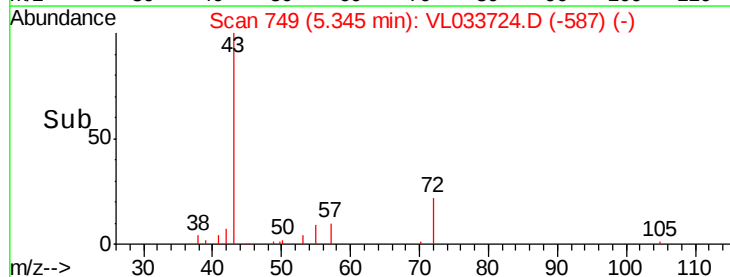
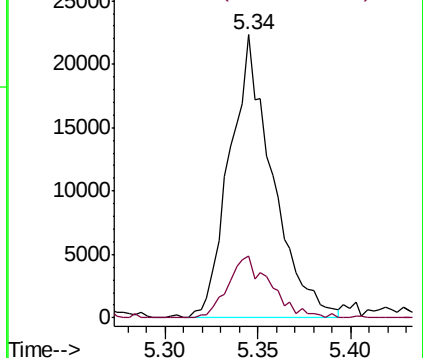


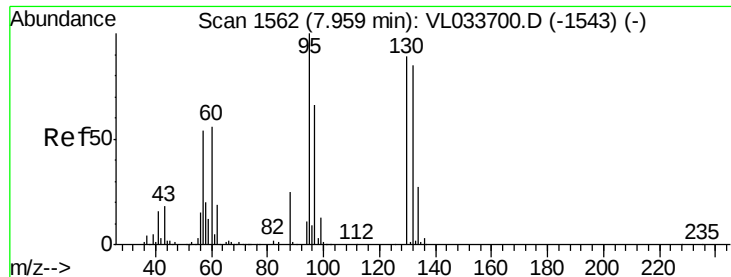
#34
 2-Butanone
 Concen: 0.240 ppbv
 RT: 5.34 min Scan# 749
 Delta R.T. 0.02 min
 Lab File: VL033724.D
 Acq: 20 May 2019 14:51

Tgt Ion: 43 Resp: 35766
 Ion Ratio Lower Upper
 43 100
 72 22.0 17.8 26.6



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

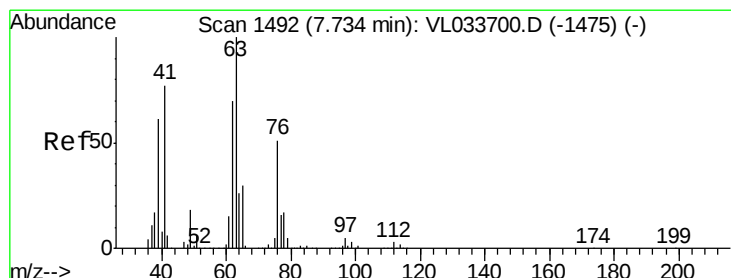
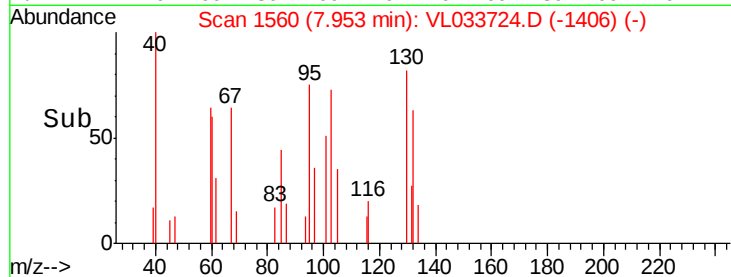
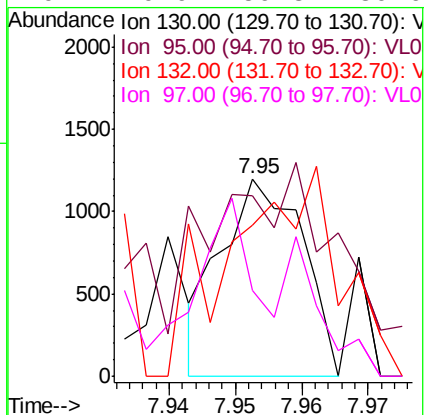
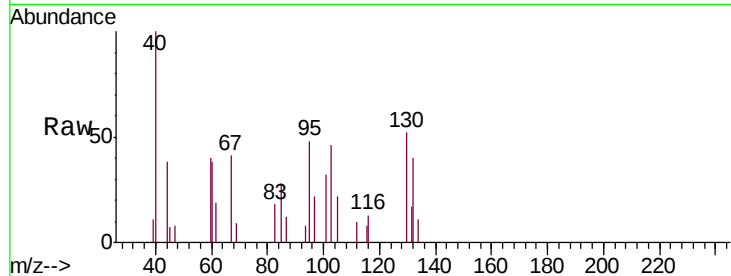




#38
 Trichloroethene
 Concen: 0.013 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033724.D
 Acq: 20 May 2019 14:51

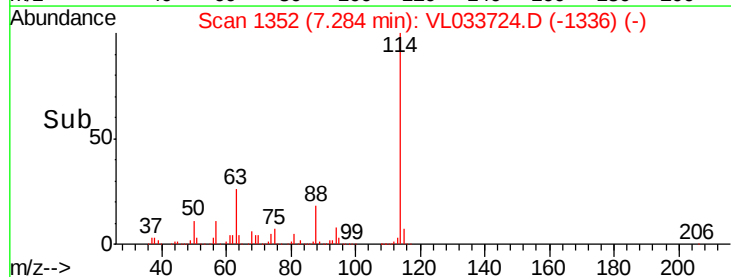
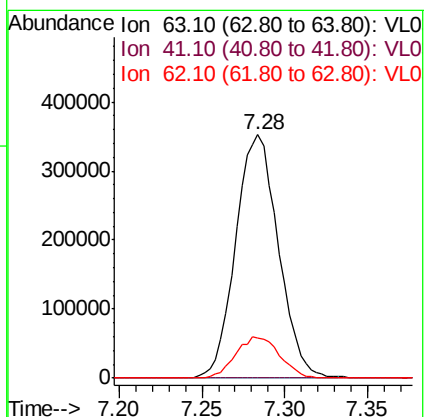
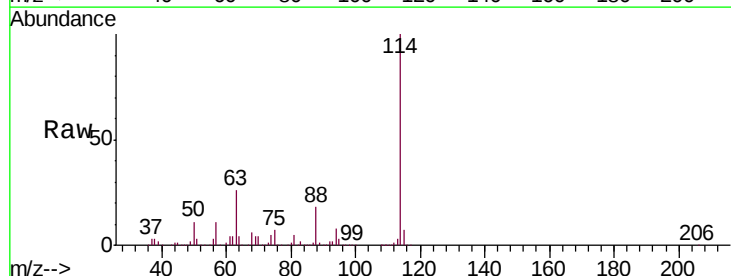
Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10758

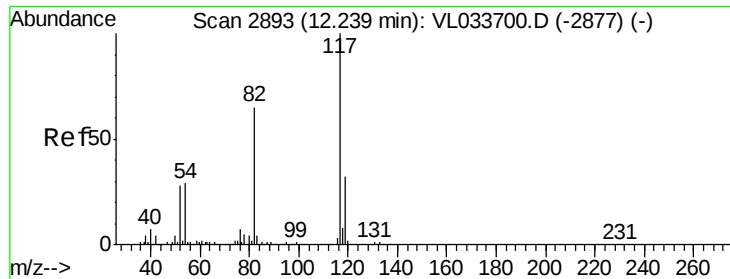
Tgt Ion: 130 Resp: 1025
 Ion Ratio Lower Upper
 130 100
 95 18.5 90.2 135.4#
 132 41.2 76.4 114.6#
 97 29.9 59.8 89.6#



#39
 1,2-Dichloropropane
 Concen: 7.725 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.45 min
 Lab File: VL033724.D
 Acq: 20 May 2019 14:51

Tgt Ion: 63 Resp: 630422
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.5 92.3#
 62 16.3 56.2 84.4#

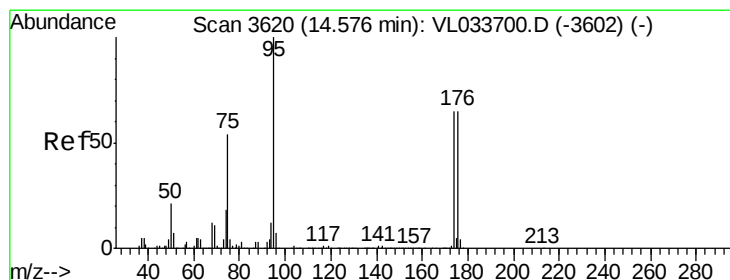
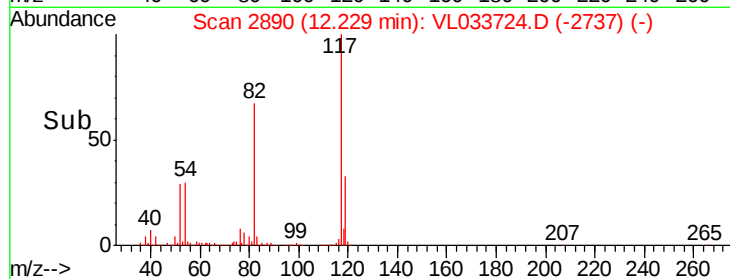
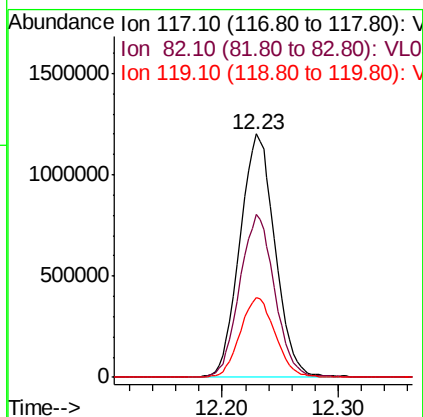
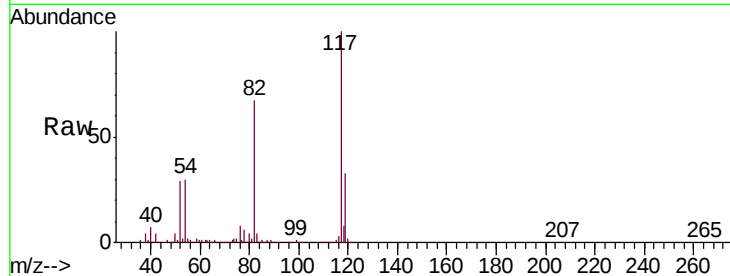




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL033724.D
Acq: 20 May 2019 14:51

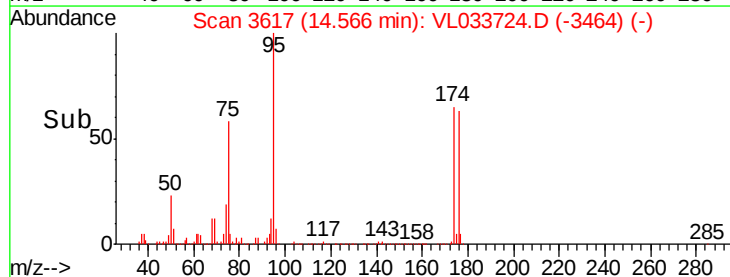
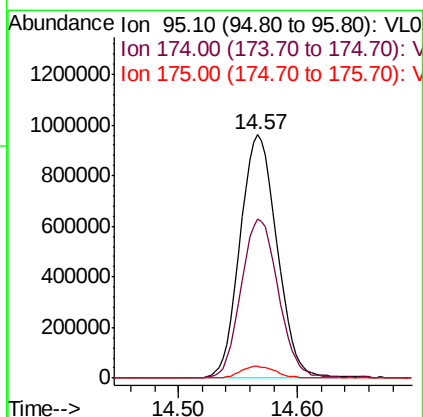
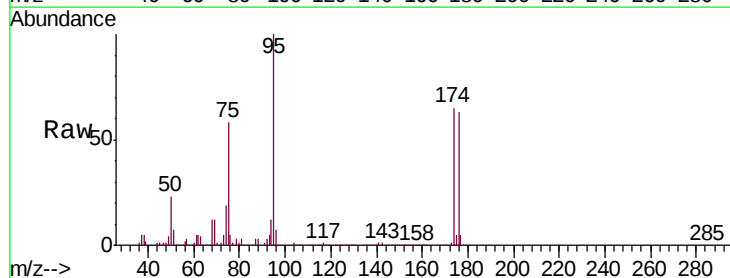
Instrument :
MSVOA_L
ClientSampleId :
CAN 10758

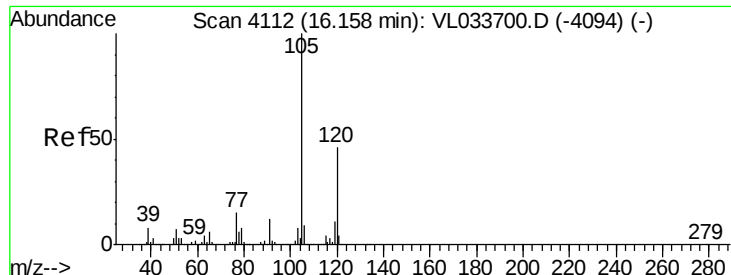
Tgt Ion: 117 Resp: 2533823
Ion Ratio Lower Upper
117 100
82 66.9 49.4 74.0
119 32.9 24.9 37.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.097 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033724.D
Acq: 20 May 2019 14:51

Tgt Ion: 95 Resp: 2074049
Ion Ratio Lower Upper
95 100
174 66.4 53.9 80.9
175 4.8 3.8 5.8

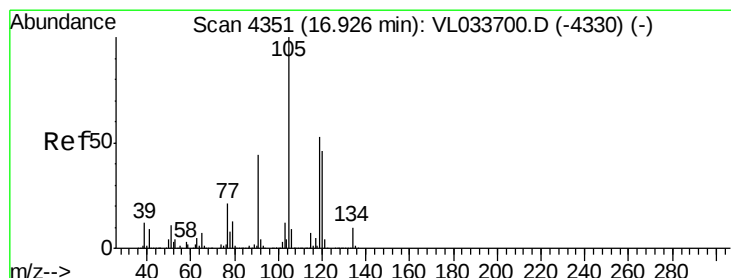
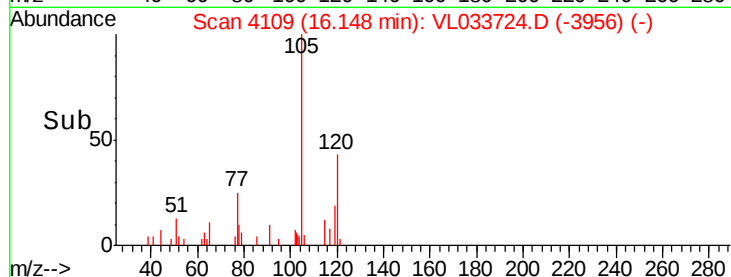
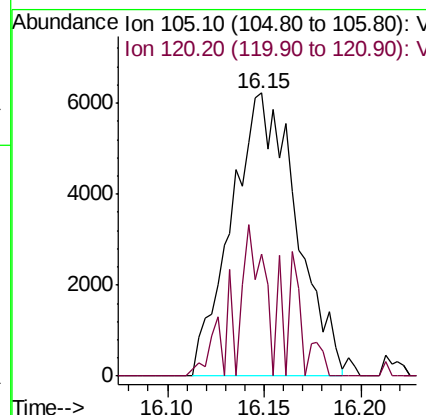
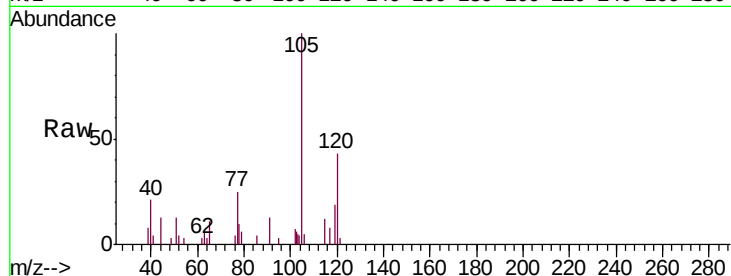




#73
 1,3,5-Trimethylbenzene
 Concen: 0.044 ppbv
 RT: 16.15 min Scan# 4109
 Delta R.T. -0.01 min
 Lab File: VL033724.D
 Acq: 20 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10758

Tgt Ion:105 Resp: 14542
 Ion Ratio Lower Upper
 105 100
 120 43.1 37.0 55.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.036 ppbv
 RT: 16.91 min Scan# 4346
 Delta R.T. -0.02 min
 Lab File: VL033724.D
 Acq: 20 May 2019 14:51

Tgt Ion:105 Resp: 12986
 Ion Ratio Lower Upper
 105 100
 120 57.6 36.8 55.2#
 91 5.1 35.4 53.0#
 77 19.1 16.8 25.2

