

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050219\
 Data File : VL033637.D
 Acq On : 2 May 2019 21:04
 Operator : SY/AP
 Sample : K2628-06DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-6DL

Quant Time: May 03 02:30:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 06:29:02 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	944213	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2267403	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2414247	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1882252	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

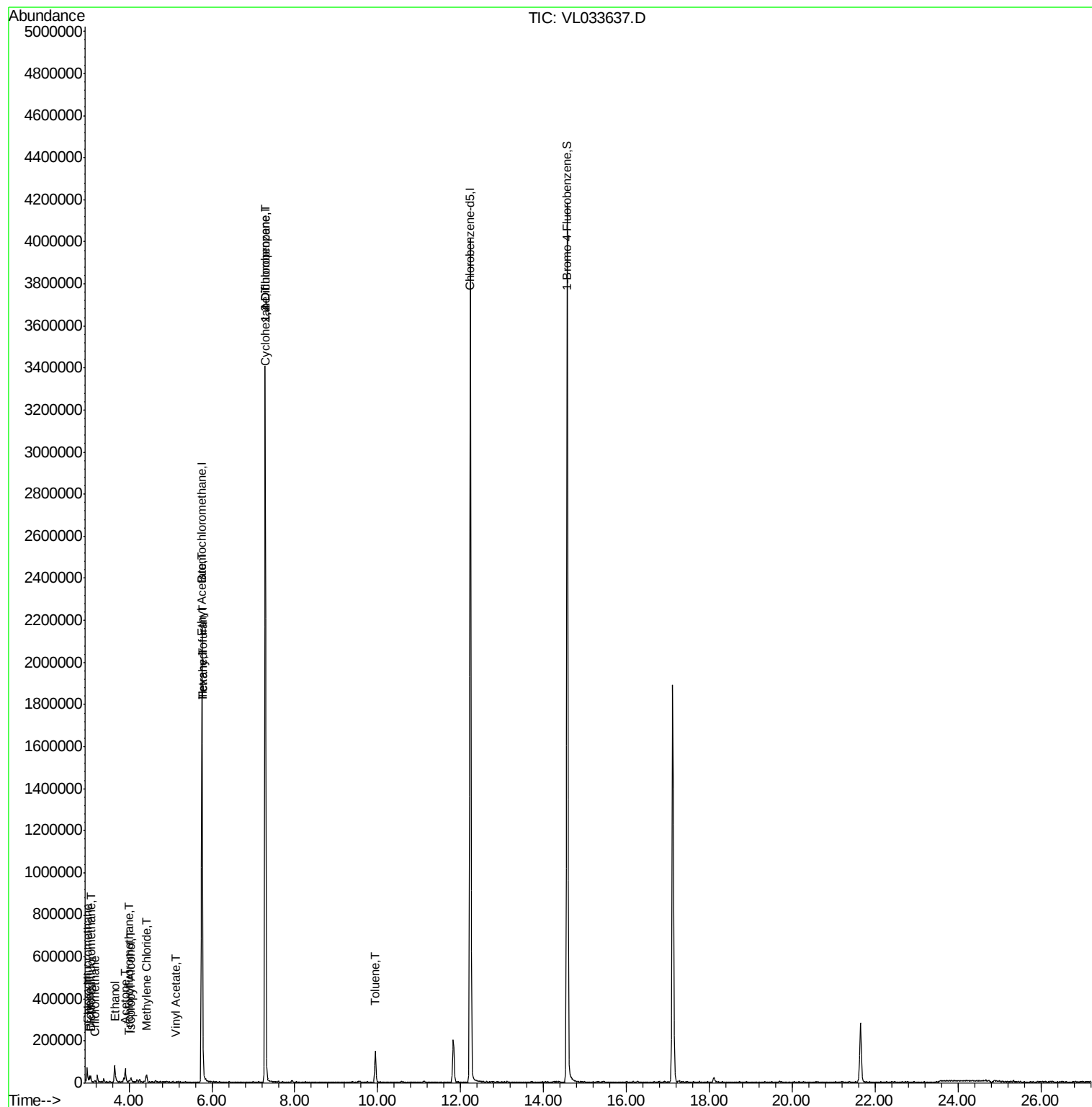
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	5965	0.042	ppbv	94
3) Chlorodifluoromethane	2.99	51	41950	0.372	ppbv #	64
4) Chloromethane	3.17	50	3395	0.055	ppbv #	86
9) Propene	3.04	41	1737	0.054	ppbv #	8
11) Trichlorofluoromethane	4.00	101	5426	0.032	ppbv	88
13) Ethanol	3.65	45	78514	5.357	ppbv	100
15) Acetone	3.91	43	64299	0.559	ppbv	98
19) Isopropyl Alcohol	4.04	45	10788	0.137	ppbv #	69
20) Methylene Chloride	4.41	84	9081	0.203	ppbv #	76
23) Vinyl Acetate	5.15	43	2002	0.012	ppbv #	53
25) Ethyl Acetate	5.77	43	18215	0.083	ppbv #	81
26) Hexane	5.78	57	22437	0.244	ppbv #	36
30) Cyclohexane	7.27	84	3971	0.051	ppbv #	1
39) 1,2-Dichloropropane	7.28	63	603060	8.278	ppbv #	23
41) Tetrahydrofuran	5.78	42	12040	0.162	ppbv #	47
53) Toluene	9.95	91	107693	0.442	ppbv	100

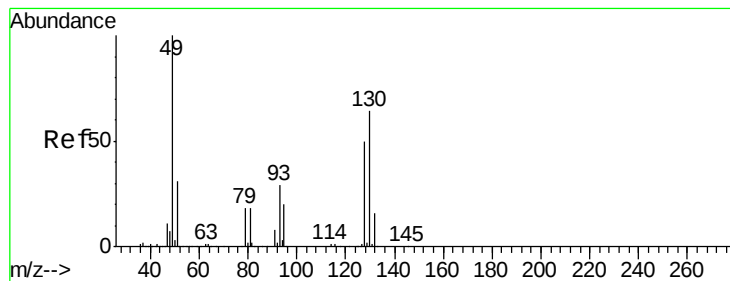
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 02 06:29:02 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL033637.D

Acq: 2 May 2019 21:04

Instrument :

MSVOA_L

ClientSampleId :

A-6DL

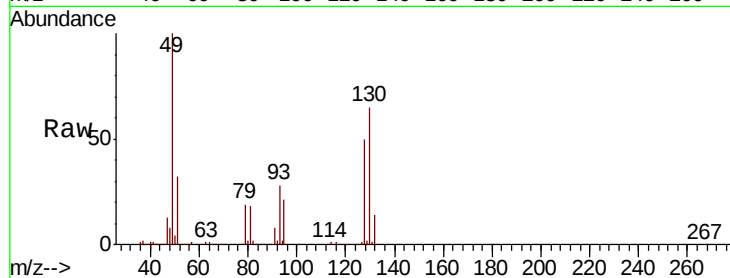
Tgt Ion: 49 Resp: 944213

Ion Ratio Lower Upper

49 100

128 49.2 25.0 75.0

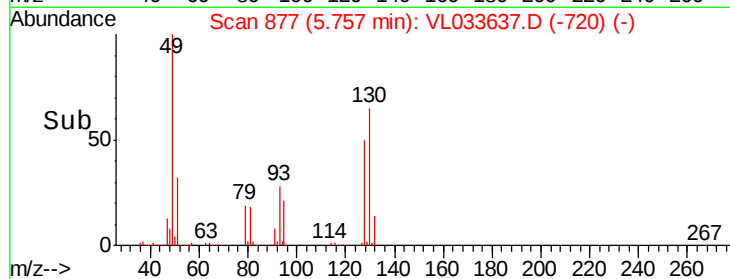
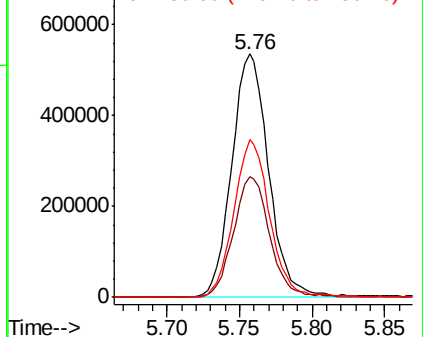
130 63.4 31.9 95.9



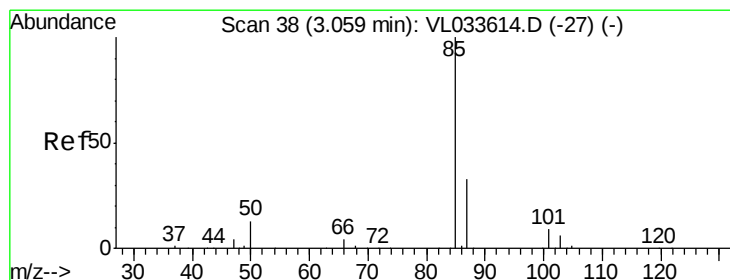
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Scan 877 (5.757 min): VL033637.D (-720) (-)



#2

Dichlorodifluoromethane

Concen: 0.042 ppbv

RT: 3.07 min Scan# 41

Delta R.T. 0.01 min

Lab File: VL033637.D

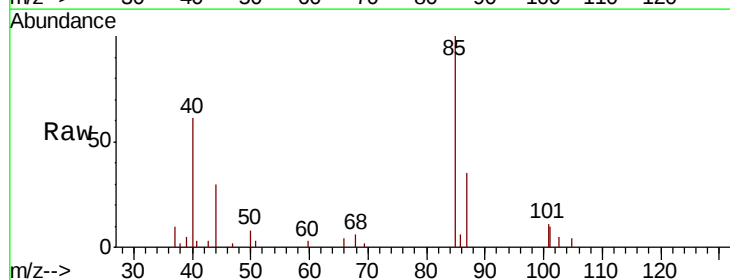
Acq: 2 May 2019 21:04

Tgt Ion: 85 Resp: 5965

Ion Ratio Lower Upper

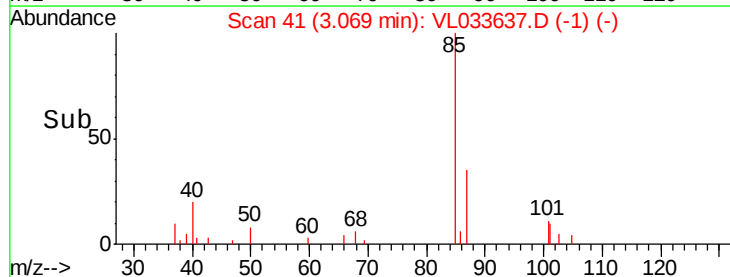
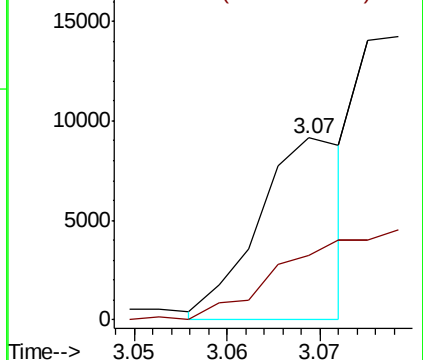
85 100

87 36.8 26.8 40.2

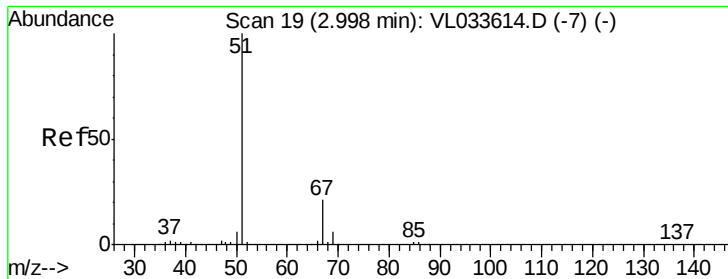


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Scan 41 (3.069 min): VL033637.D (-1) (-)



#3

Chlorodifluoromethane

Concen: 0.372 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.01 min

Lab File: VL033637.D

Acq: 2 May 2019 21:04

Instrument :

MSVOA_L

ClientSampleId :

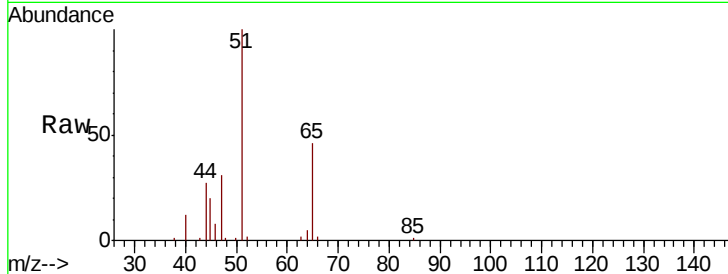
A-6DL

Tgt Ion: 51 Resp: 41950

Ion Ratio Lower Upper

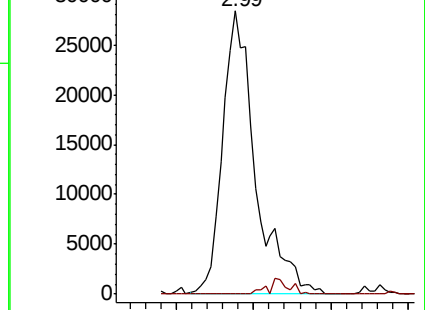
51 100

67 3.3 15.6 23.4#

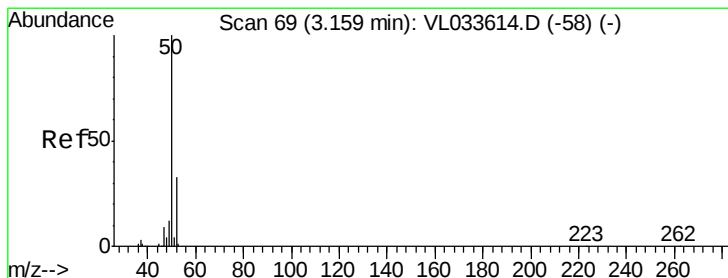
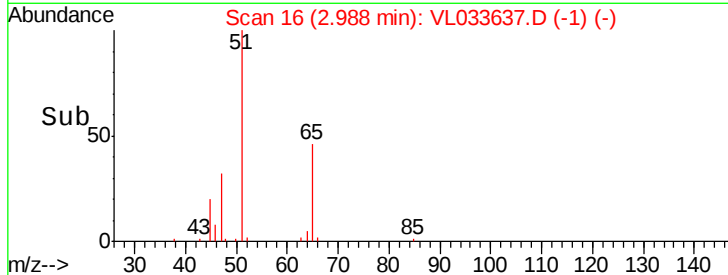


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.055 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL033637.D

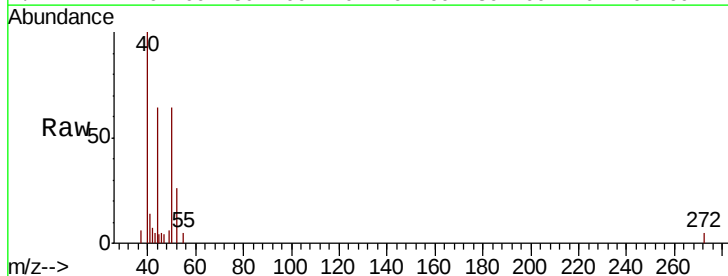
Acq: 2 May 2019 21:04

Tgt Ion: 50 Resp: 3395

Ion Ratio Lower Upper

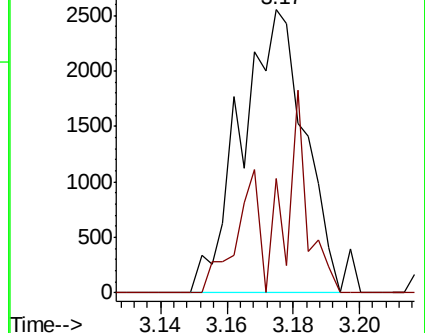
50 100

52 40.6 26.0 39.0#

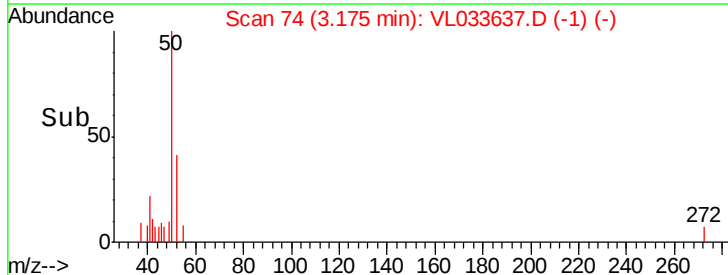


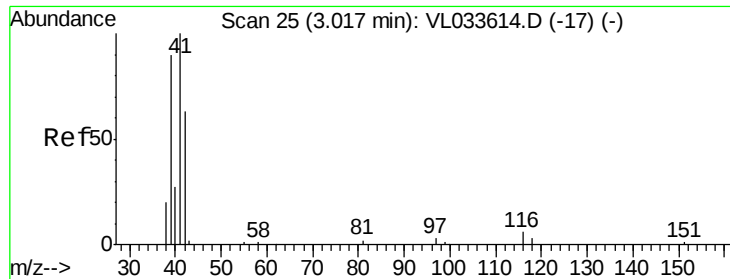
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#9

Propene

Concen: 0.054 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.02 min

Lab File: VL033637.D

Acq: 2 May 2019 21:04

Instrument :

MSVOA_L

ClientSampled :

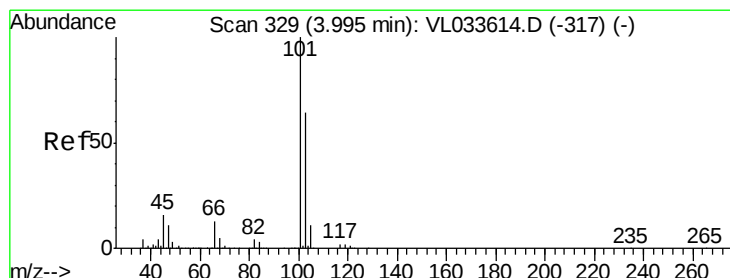
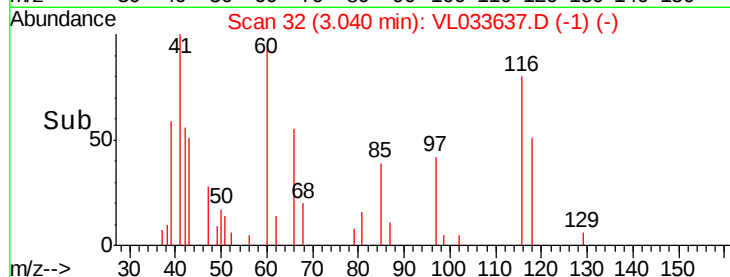
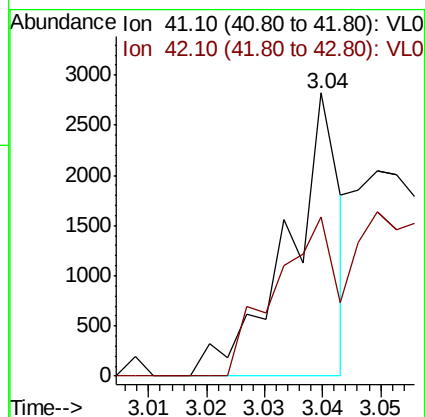
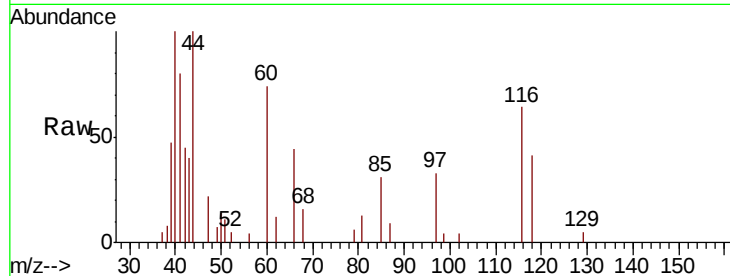
A-6DL

Tgt Ion: 41 Resp: 1737

Ion Ratio Lower Upper

41 100

42 0.0 66.0 99.0#



#11

Trichlorofluoromethane

Concen: 0.032 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL033637.D

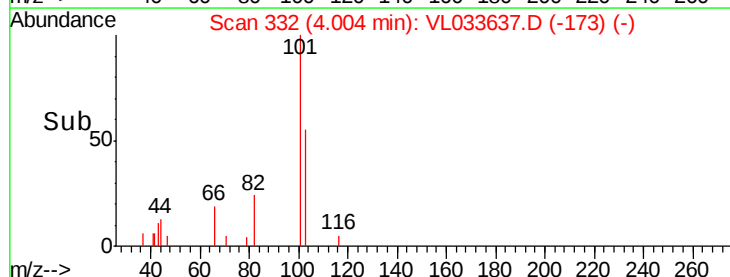
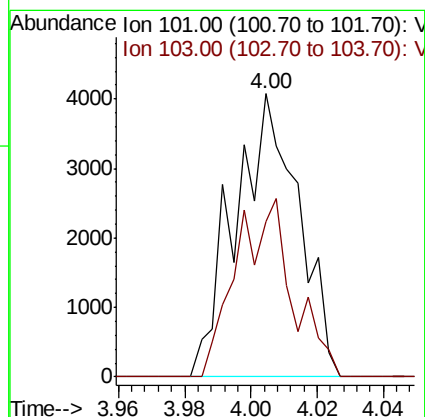
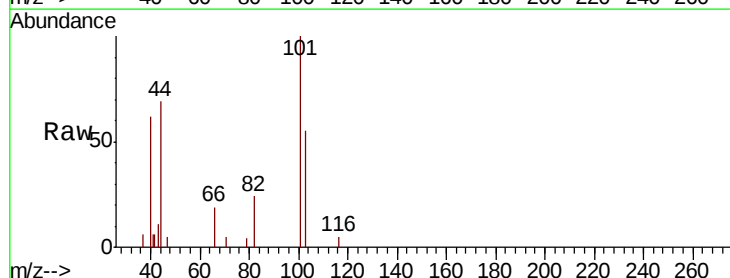
Acq: 2 May 2019 21:04

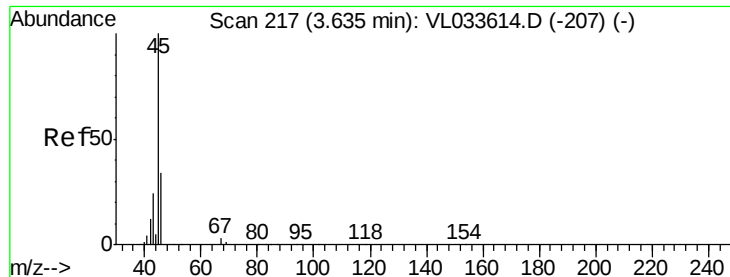
Tgt Ion: 101 Resp: 5426

Ion Ratio Lower Upper

101 100

103 54.8 51.2 76.8





#13

Ethanol

Concen: 5.357 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.02 min

Lab File: VL033637.D

Acq: 2 May 2019 21:04

Instrument :

MSVOA_L

ClientSampleId :

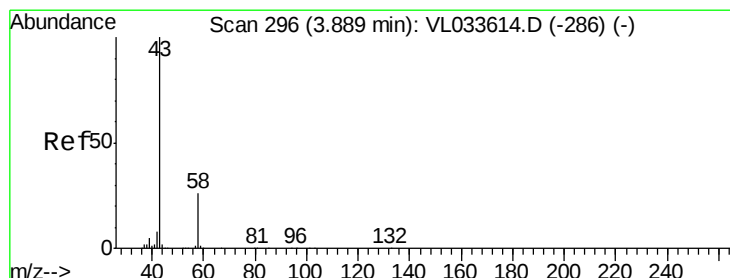
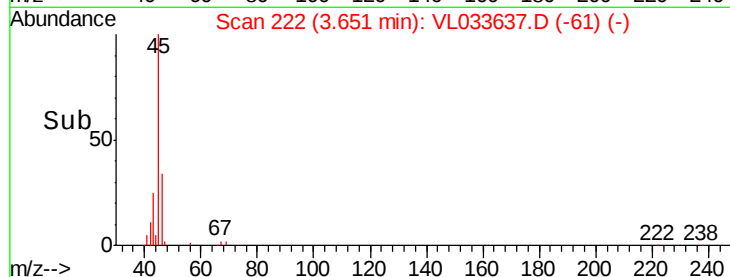
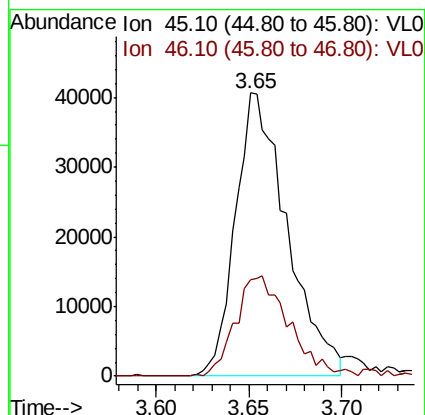
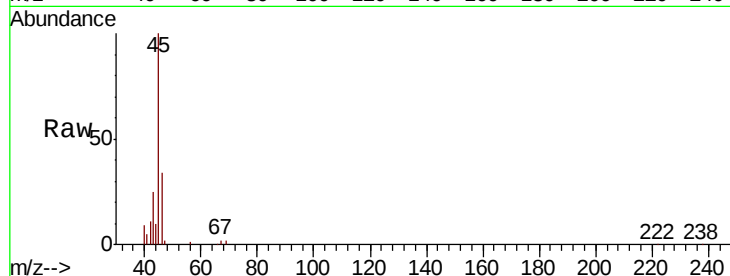
A-6DL

Tgt Ion: 45 Resp: 78514

Ion Ratio Lower Upper

45 100

46 36.6 14.6 58.2



#15

Acetone

Concen: 0.559 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.02 min

Lab File: VL033637.D

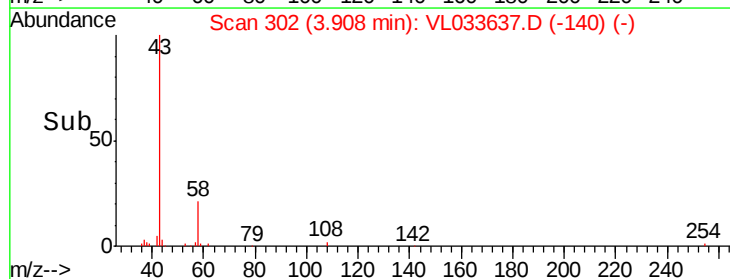
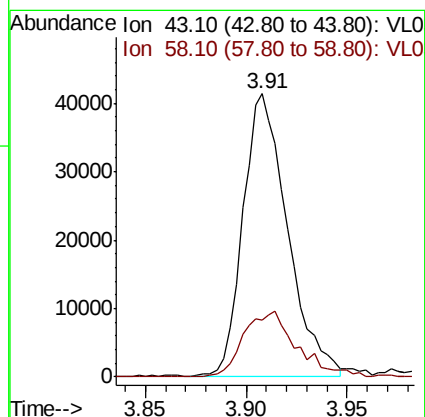
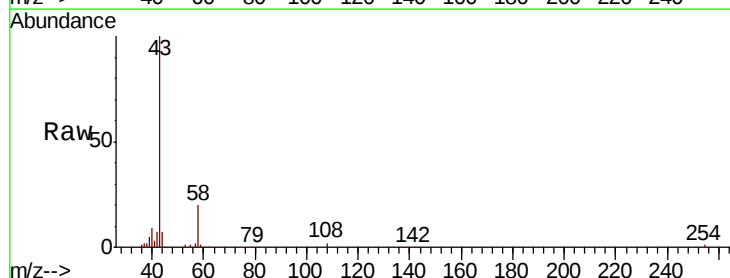
Acq: 2 May 2019 21:04

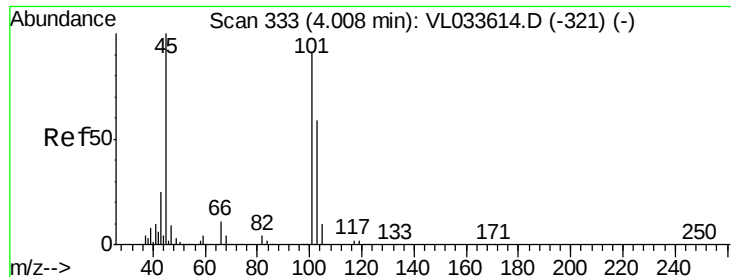
Tgt Ion: 43 Resp: 64299

Ion Ratio Lower Upper

43 100

58 27.6 21.2 31.8





#19

Isopropyl Alcohol

Concen: 0.137 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.04 min

Lab File: VL033637.D

Acq: 2 May 2019 21:04

Instrument :

MSVOA_L

ClientSampleId :

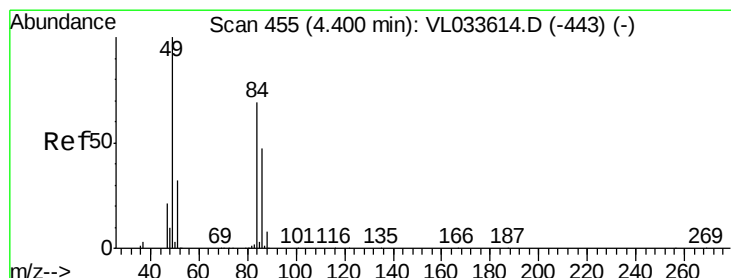
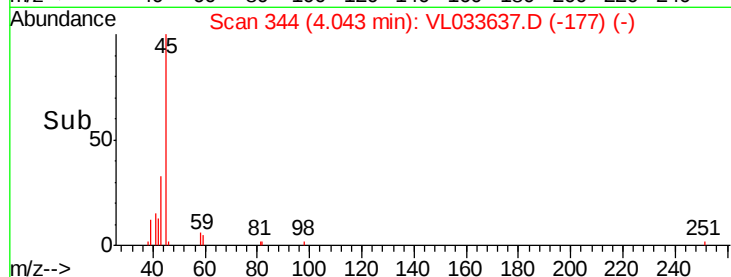
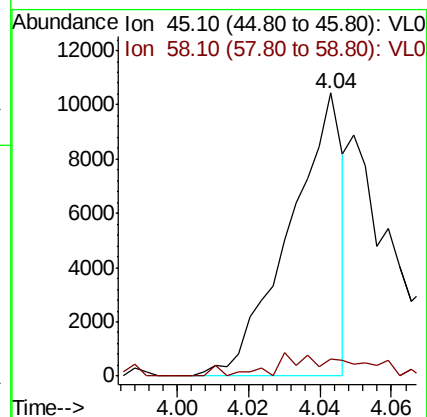
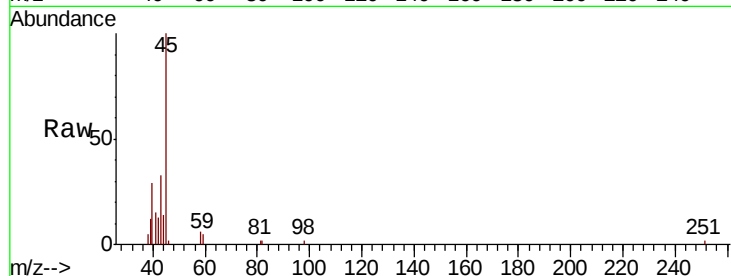
A-6DL

Tgt Ion: 45 Resp: 10788

Ion Ratio Lower Upper

45 100

58 12.8 1.8 2.6#



#20

Methylene Chloride

Concen: 0.203 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.01 min

Lab File: VL033637.D

Acq: 2 May 2019 21:04

Tgt Ion: 84 Resp: 9081

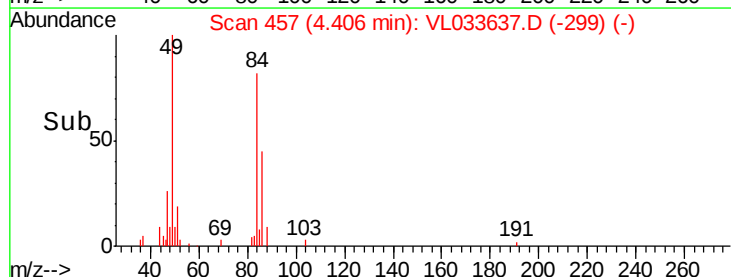
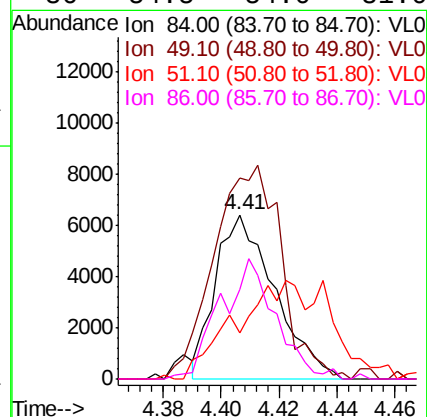
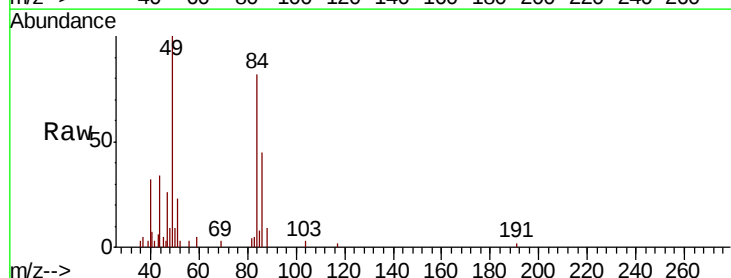
Ion Ratio Lower Upper

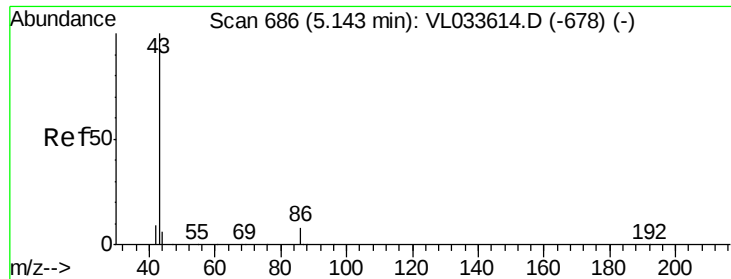
84 100

49 118.2 116.2 174.2

51 16.2 37.0 55.6#

86 54.5 54.0 81.0

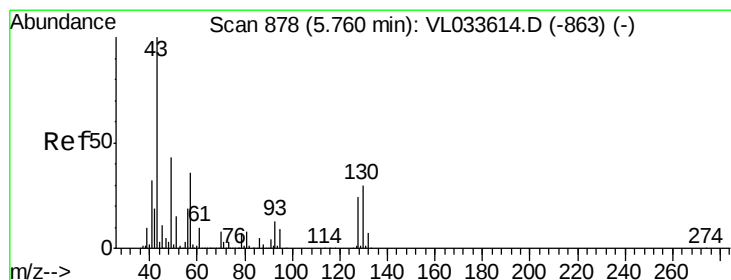
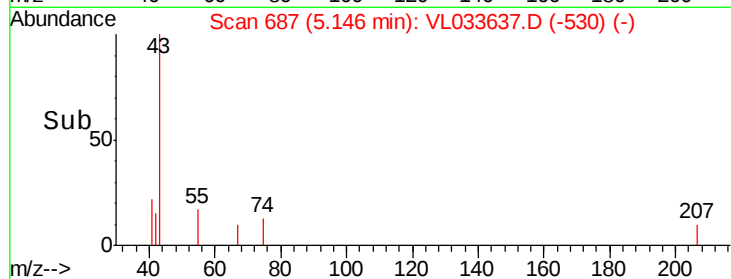
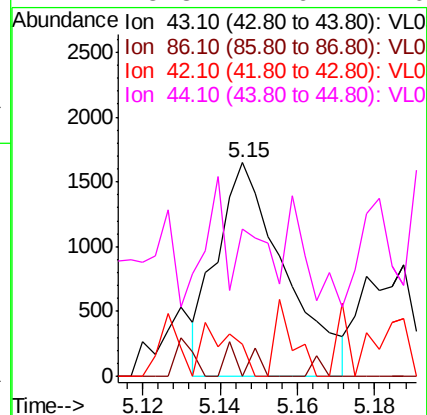
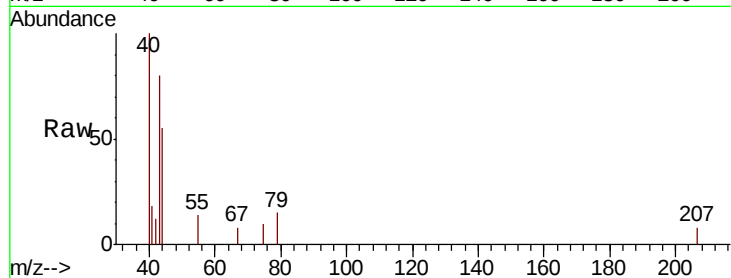




#23
 Vinyl Acetate
 Concen: 0.012 ppbv
 RT: 5.15 min Scan# 687
 Delta R.T. 0.00 min
 Lab File: VL033637.D
 Acq: 2 May 2019 21:04

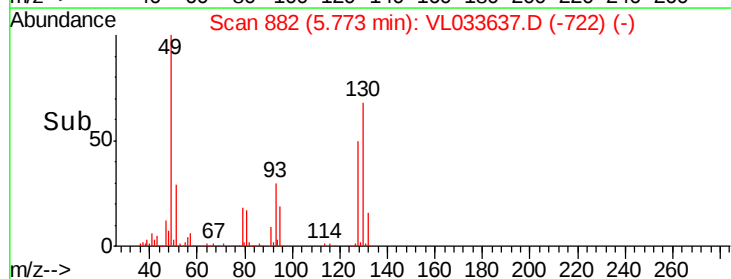
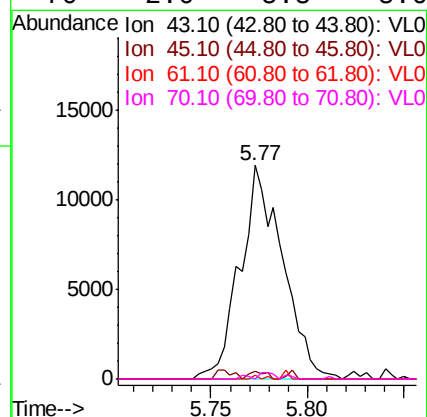
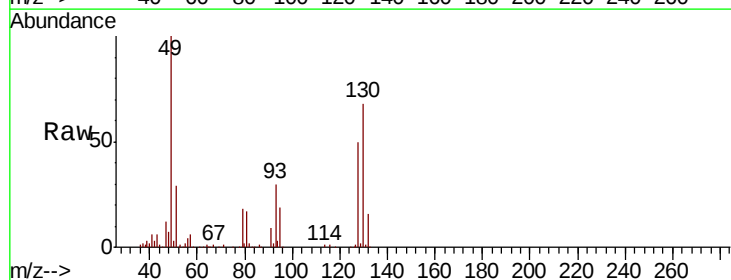
Instrument :
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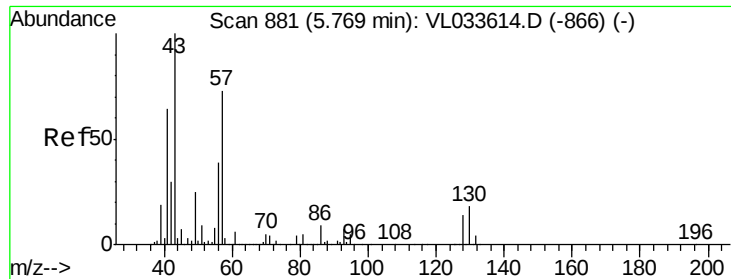
Tgt Ion:	43	Resp:	2002
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.8	8.8#
42	18.8	7.8	11.8#
44	45.3	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.083 ppbv
 RT: 5.77 min Scan# 882
 Delta R.T. 0.01 min
 Lab File: VL033637.D
 Acq: 2 May 2019 21:04

Tgt Ion:	43	Resp:	18215
Ion	Ratio	Lower	Upper
43	100		
45	3.8	8.1	12.1#
61	0.9	7.5	11.3#
70	2.0	5.8	8.6#

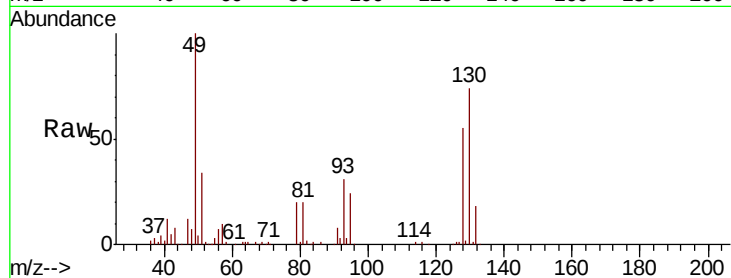




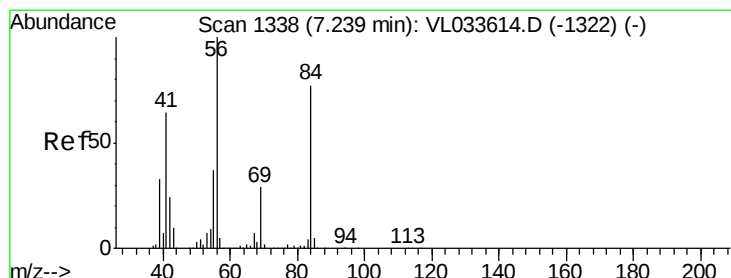
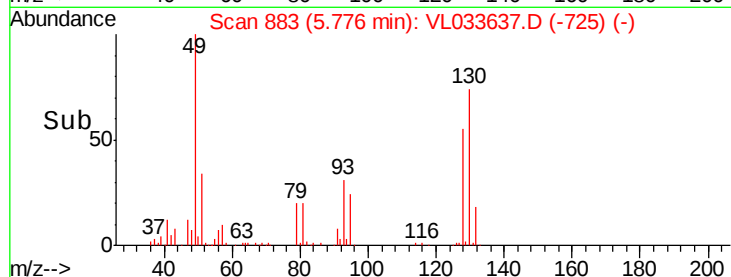
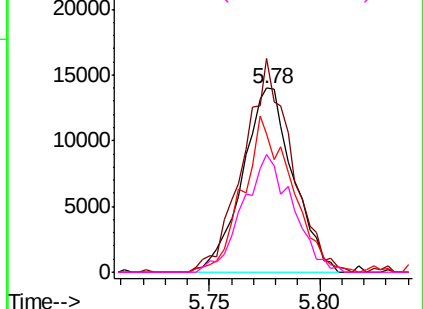
#26
Hexane
Concen: 0.244 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033637.D
Acq: 2 May 2019 21:04

Instrument :
MSVOA_L
ClientSampled :
A-6DL

Tgt Ion: 57 Resp: 22437
Ion Ratio Lower Upper
57 100
41 110.6 70.6 106.0#
43 81.4 186.0 279.0#
56 62.6 42.7 64.1

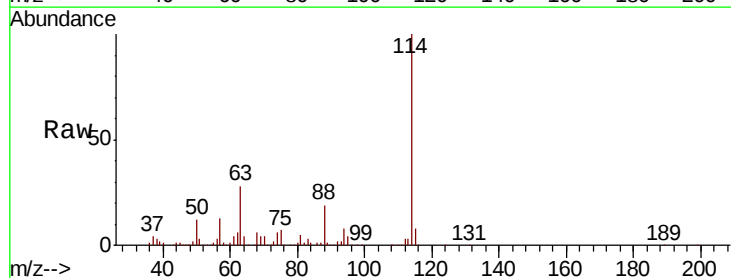


Abundance Ion 57.10 (56.80 to 57.80): VL0
25000 Ion 41.10 (40.80 to 41.80): VL0
20000 Ion 43.10 (42.80 to 43.80): VL0
15000 Ion 56.10 (55.80 to 56.80): VL0
10000
5000
0

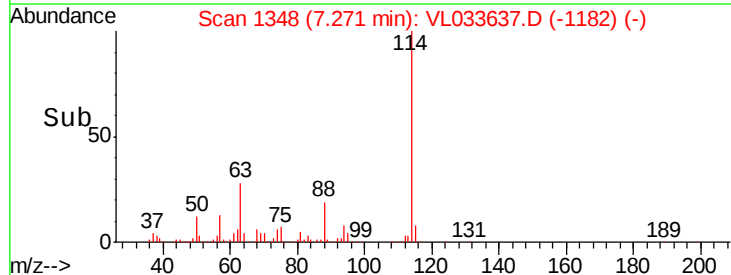
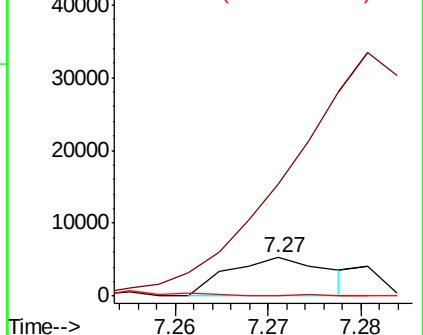


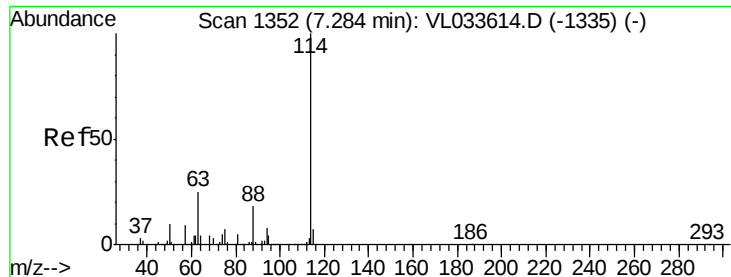
#30
Cyclohexane
Concen: 0.051 ppbv
RT: 7.27 min Scan# 1348
Delta R.T. 0.03 min
Lab File: VL033637.D
Acq: 2 May 2019 21:04

Tgt Ion: 84 Resp: 3971
Ion Ratio Lower Upper
84 100
56 0.0 108.4 162.6#
41 12.3 67.0 100.4#



Abundance Ion 84.20 (83.90 to 84.90): VL0
40000 Ion 56.10 (55.80 to 56.80): VL0
30000 Ion 41.10 (40.80 to 41.80): VL0
20000
10000
0

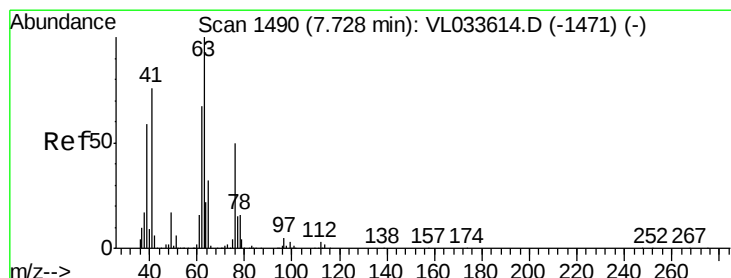
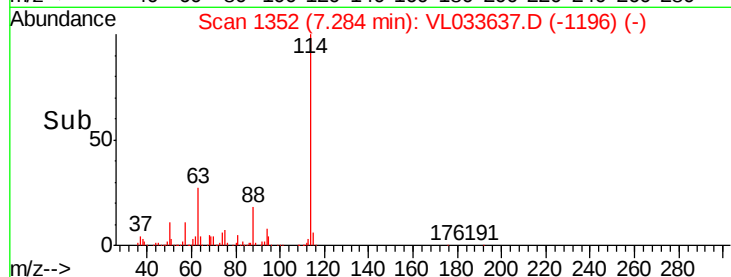
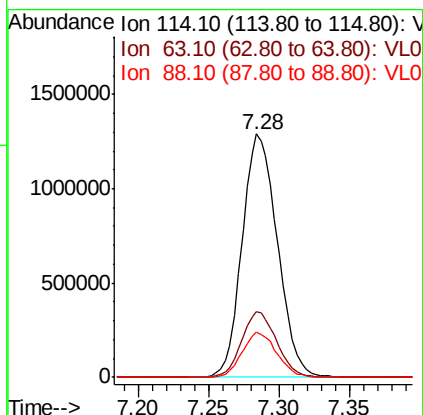
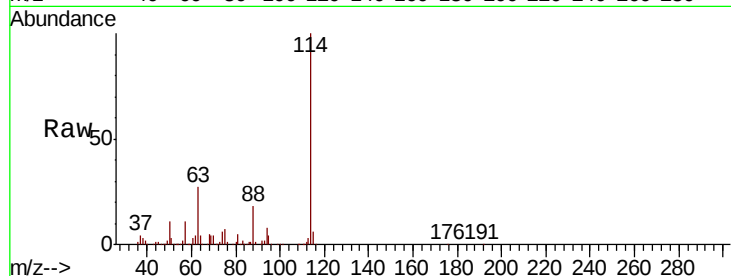




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. 0.00 min
 Lab File: VL033637.D
 Acq: 2 May 2019 21:04

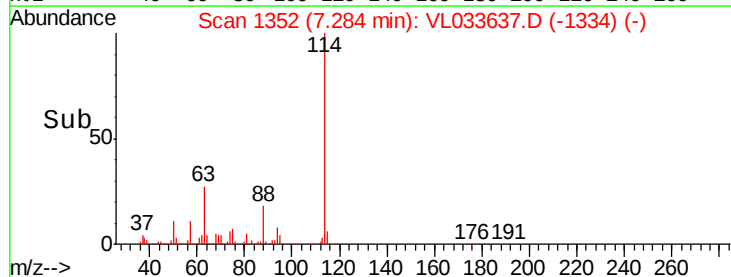
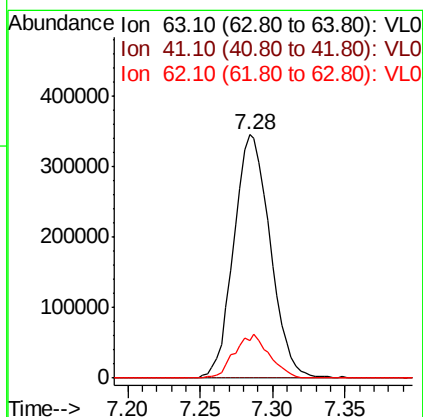
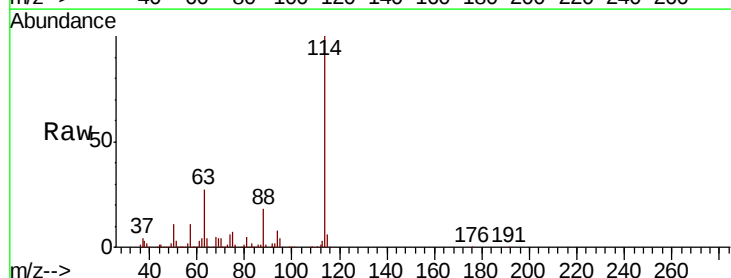
Instrument :
 MSVOA_L
 ClientSampleId :
 A-6DL

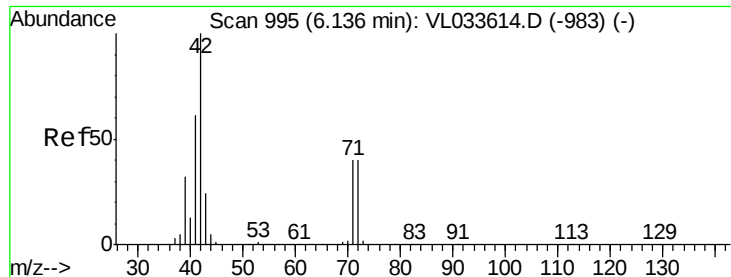
Tgt Ion:114 Resp: 2267403
 Ion Ratio Lower Upper
 114 100
 63 26.7 21.1 31.7
 88 18.1 14.2 21.4



#39
 1,2-Dichloropropane
 Concen: 8.278 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.44 min
 Lab File: VL033637.D
 Acq: 2 May 2019 21:04

Tgt Ion: 63 Resp: 603060
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.9 91.3#
 62 15.6 53.3 79.9#





#41

Tetrahydrofuran

Concen: 0.162 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.36 min

Lab File: VL033637.D

Acq: 2 May 2019 21:04

Instrument :

MSVOA_L

ClientSampleId :

A-6DL

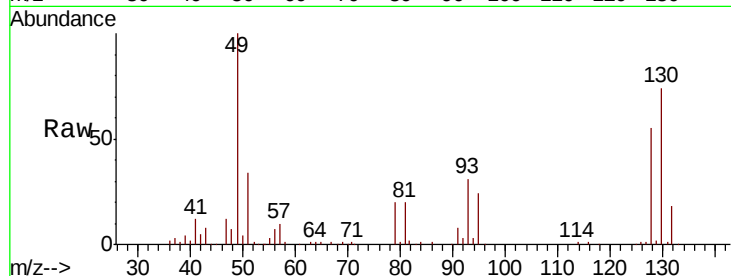
Tgt Ion: 42 Resp: 12040

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.6#

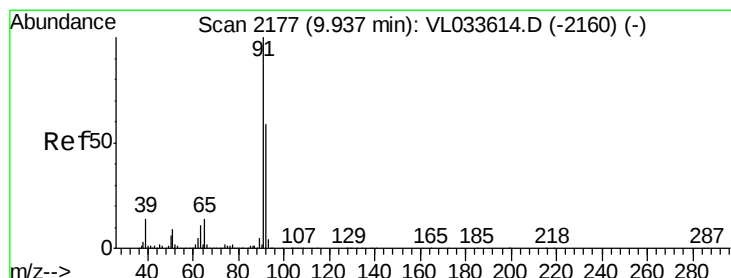
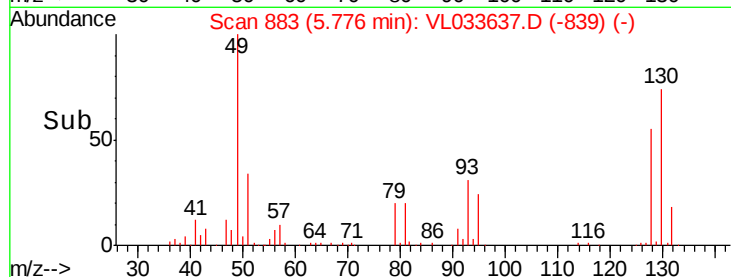
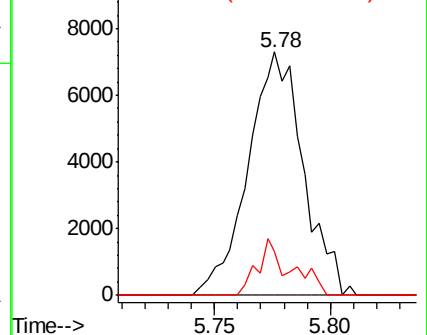
71 14.1 31.0 46.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#53

Toluene

Concen: 0.442 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL033637.D

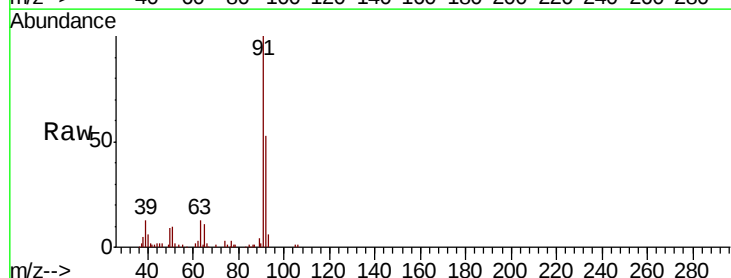
Acq: 2 May 2019 21:04

Tgt Ion: 91 Resp: 107693

Ion Ratio Lower Upper

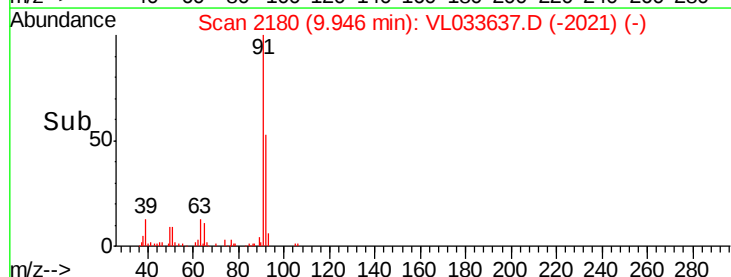
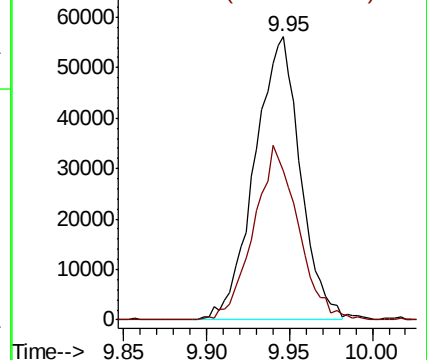
91 100

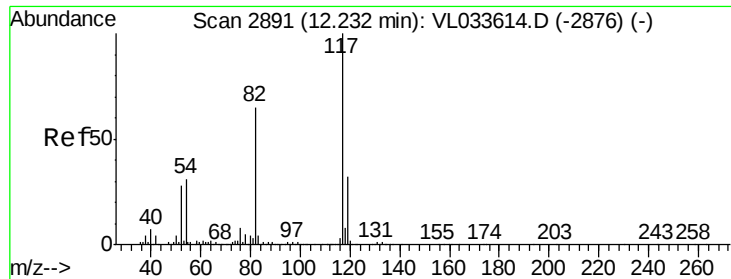
92 59.9 47.8 71.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

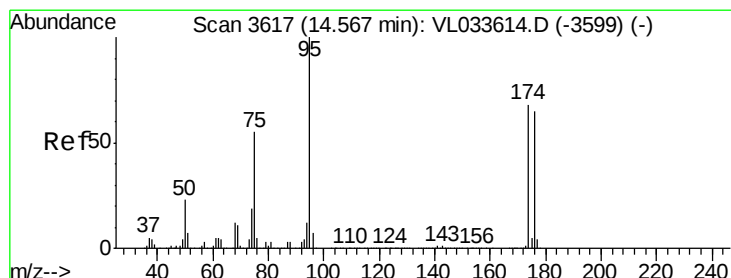
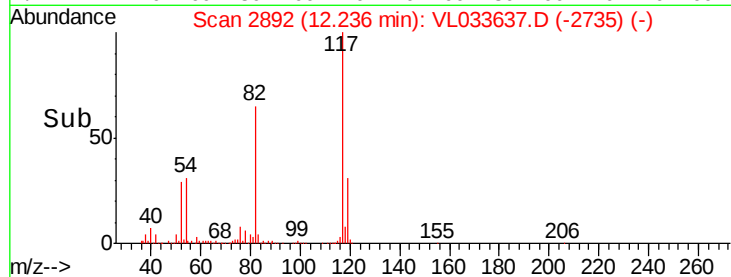
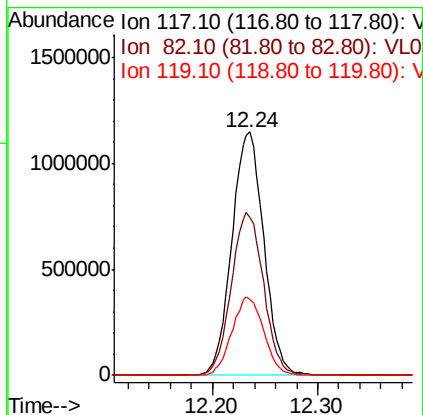
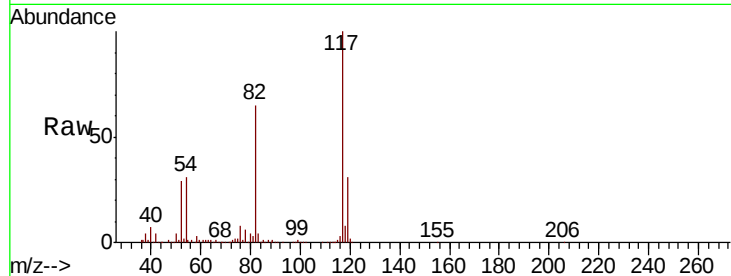




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. 0.00 min
Lab File: VL033637.D
Acq: 2 May 2019 21:04

Instrument :
MSVOA_L
ClientSampleId :
A-6DL

Tgt Ion: 117 Resp: 2414247
Ion Ratio Lower Upper
117 100
82 67.8 52.6 78.8
119 32.3 28.3 42.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.241 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. 0.00 min
Lab File: VL033637.D
Acq: 2 May 2019 21:04

Tgt Ion: 95 Resp: 1882252
Ion Ratio Lower Upper
95 100
174 66.3 53.9 80.9
175 4.7 4.0 6.0

