

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
 Data File : VL032447.D
 Acq On : 31 Aug 2018 19:06
 Operator : SY/AP
 Sample : J4717-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04

Quant Time: Sep 01 02:02:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018
 QLast Update : Fri Aug 31 21:33:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1667142	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3489312	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3341000	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2557149	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.10	85	28968	0.136	ppbv	98
3) Chlorodifluoromethane	3.04	51	48468	0.321	ppbv	100
4) Chloromethane	3.20	50	20207	0.221	ppbv	95
5) Vinyl Chloride	3.32	62	2883	0.032	ppbv	91
7) Chloroethane	3.64	64	1395	0.045	ppbv	93
9) Propene	3.06	41	9978707	163.920	ppbv	99
10) Heptane	8.30	43	891648	4.083	ppbv	98
11) Trichlorofluoromethane	4.04	101	110276	0.573	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.59	101	6391	0.049	ppbv #	34
13) Ethanol	3.69	45	837099	44.114	ppbv	98
15) Acetone	3.94	43	16603861	110.596	ppbv #	78
16) 1,3-Butadiene	3.38	39	7345536	103.978	ppbv #	21
17) tert-Butyl alcohol	4.40	59	1013709	43.877	ppbv #	100
19) Isopropyl Alcohol	4.07	45	304138	3.088	ppbv #	93
20) Methylene Chloride	4.46	84	796349	13.911	ppbv	97
21) Allyl Chloride	4.51	41	327702	3.286	ppbv #	1
23) Vinyl Acetate	5.19	43	571737	2.298	ppbv #	36
24) 1,1-Dichloroethane	5.17	63	9814	0.048	ppbv #	89
25) Ethyl Acetate	5.83	43	1832156	5.168	ppbv #	78
26) Hexane	5.83	57	2479193	15.617	ppbv #	40
27) Carbon Disulfide	4.66	76	246656	1.683	ppbv	97
28) Methyl tert-Butyl Ether	5.16	73	8439	0.043	ppbv #	51
29) Chloroform	5.90	83	240026	0.992	ppbv	97
30) Cyclohexane	7.30	84	44103	0.379	ppbv #	1
32) 1,1,1-Trichloroethane	6.68	97	21150	0.094	ppbv #	82
34) 2-Butanone	5.37	43	4356722	18.798	ppbv	99
36) Benzene	7.06	78	1775844	5.981	ppbv	97
37) 1,2-Dichloroethane	6.47	62	9987	0.055	ppbv #	23
39) 1,2-Dichloropropane	7.35	63	923592	7.270	ppbv #	25
41) Tetrahydrofuran	6.20	42	61234	0.485	ppbv #	88
42) Bromodichloromethane	7.97	83	25730	0.103	ppbv #	27
43) Methyl Methacrylate	8.18	69	13074	0.104	ppbv #	1
44) 2,2,4-Trimethylpentane	8.04	57	104927	0.183	ppbv #	43
50) 4-Methyl-2-Pentanone	8.92	43	614196	1.759	ppbv	98
51) 2-Hexanone	10.32	43	884127	3.931	ppbv #	96
52) Tetrachloroethene	11.43	164	25618	0.278	ppbv	93
53) Toluene	10.00	91	5029243	16.203	ppbv	99
58) Ethyl Benzene	12.92	91	1852045	4.632	ppbv	95
59) m/p-Xylene	13.17	91	5126178	14.381	ppbv	98
60) o-Xylene	13.90	91	1607839	4.592	ppbv	98
61) Styrene	13.75	104	161320	0.712	ppbv	96

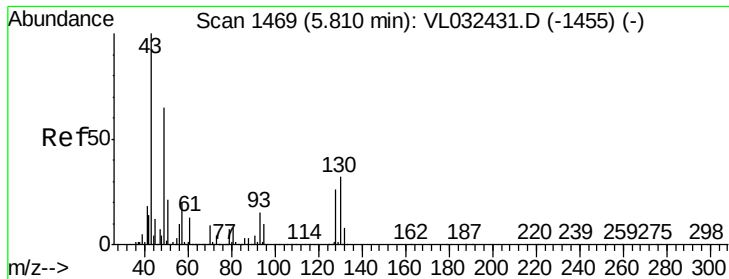
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
 Data File : VL032447.D
 Acq On : 31 Aug 2018 19:06
 Operator : SY/AP
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 VP-04

Quant Time: Sep 01 02:02:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018
 QLast Update : Fri Aug 31 21:33:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.88	105	125566	0.255	ppbv	91
63) 1,1,2,2-Tetrachloroethane	13.90	83	148202	0.473	ppbv #	25
64) n-propylbenzene	15.78	120	196323	1.526	ppbv	80
65) tert-Butylbenzene	16.99	119	224272	0.529	ppbv #	73
70) n-Butylbenzene	18.70	91	54299	0.097	ppbv #	44
71) 2-Chlorotoluene	15.54	91	149387	0.397	ppbv #	57
72) 4-Ethyltoluene	16.06	105	1034739	2.707	ppbv	97
73) 1,3,5-Trimethylbenzene	16.22	105	538891	1.407	ppbv	95
74) 1,2,4-Trimethylbenzene	16.99	105	2016219	4.815	ppbv #	70
79) Naphthalene	22.49	128	38568	0.113	ppbv #	69
80) Naphthalene,2-methyl-	25.19	142	4262	0.047	ppbv #	1

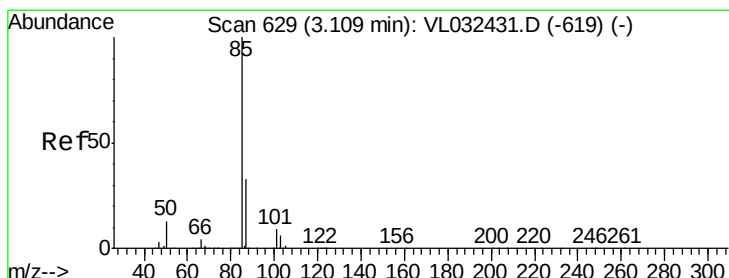
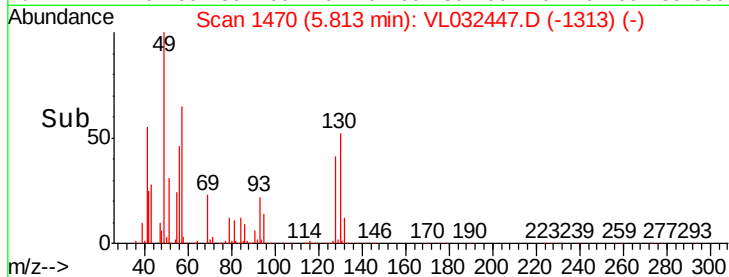
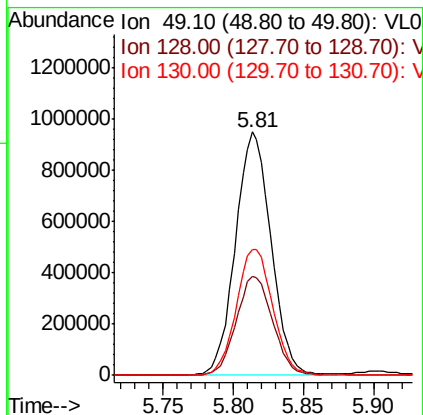
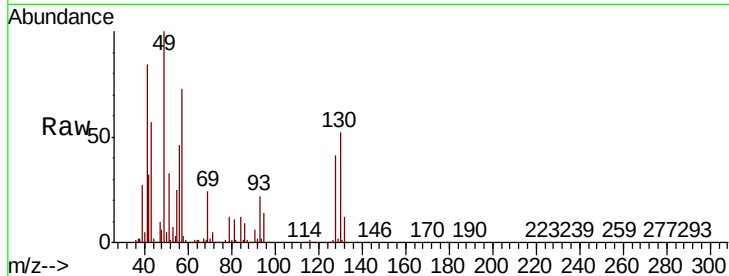
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.81 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

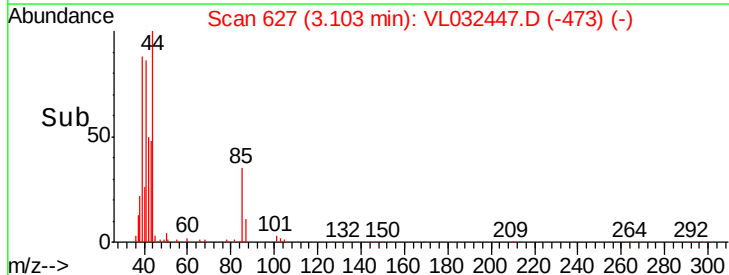
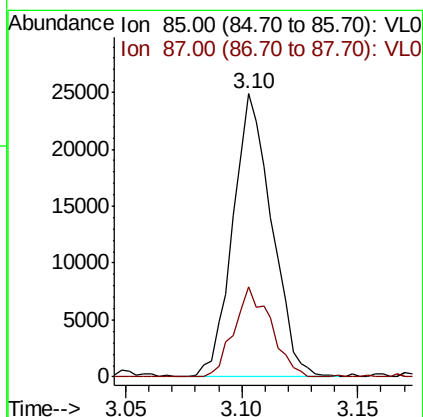
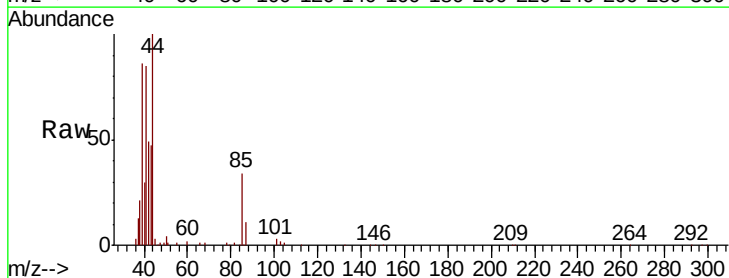
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04

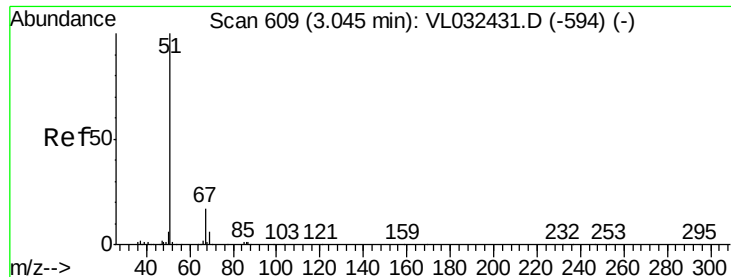
Tgt Ion: 49 Resp: 1667142
 Ion Ratio Lower Upper
 49 100
 128 42.3 20.7 62.1
 130 53.7 26.6 79.7



#2
 Dichlorodifluoromethane
 Concen: 0.136 ppbv
 RT: 3.10 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Tgt Ion: 85 Resp: 28968
 Ion Ratio Lower Upper
 85 100
 87 31.8 26.2 39.4





#3

Chlorodifluoromethane

Concen: 0.321 ppbv

RT: 3.04 min Scan# 608

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampled :

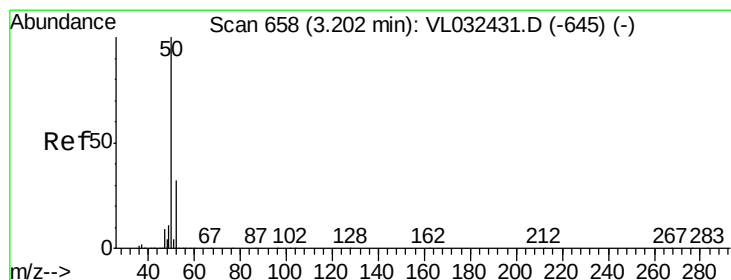
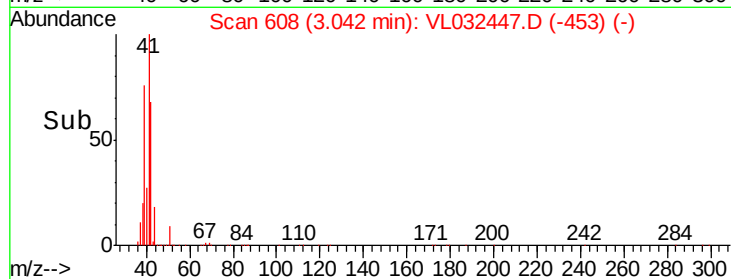
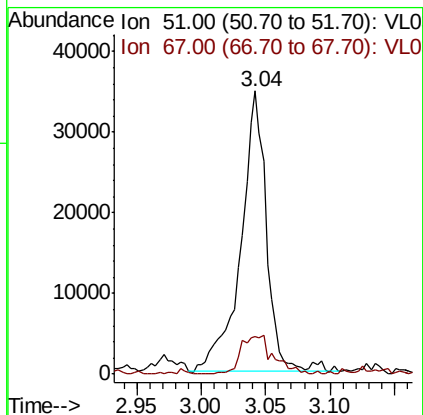
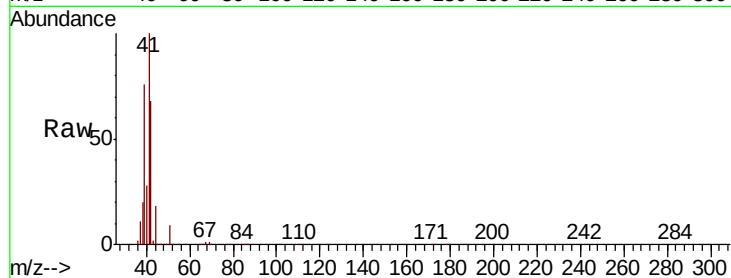
VP-04

Tgt Ion: 51 Resp: 48468

Ion Ratio Lower Upper

51 100

67 17.2 13.8 20.8



#4

Chloromethane

Concen: 0.221 ppbv

RT: 3.20 min Scan# 656

Delta R.T. -0.01 min

Lab File: VL032447.D

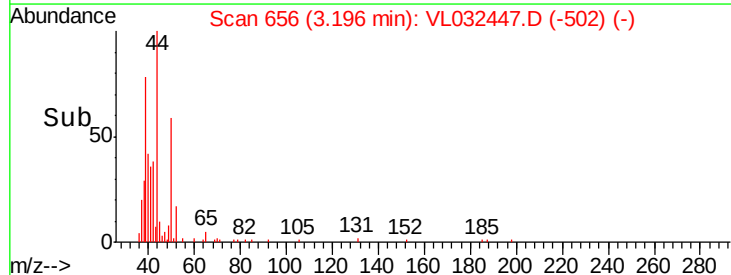
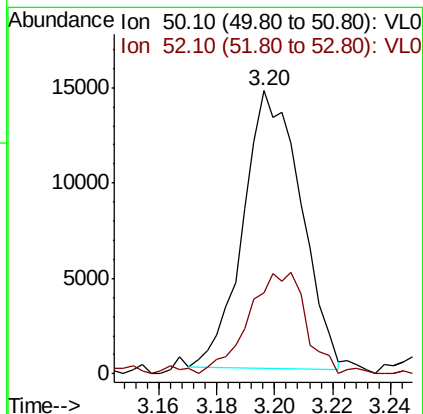
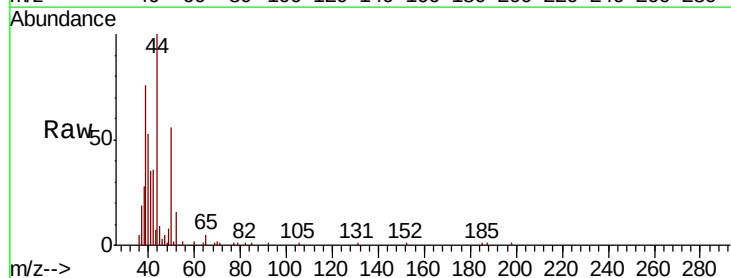
Acq: 31 Aug 2018 19:06

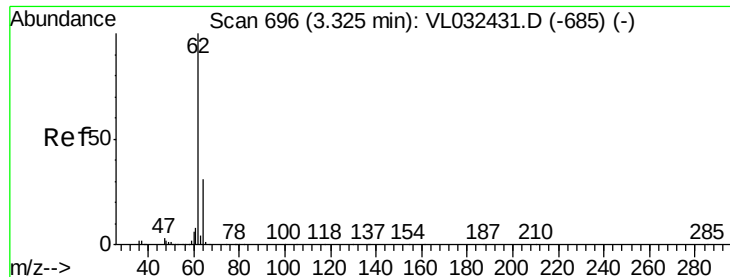
Tgt Ion: 50 Resp: 20207

Ion Ratio Lower Upper

50 100

52 29.3 25.6 38.4





#5

Vinyl Chloride

Concen: 0.032 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

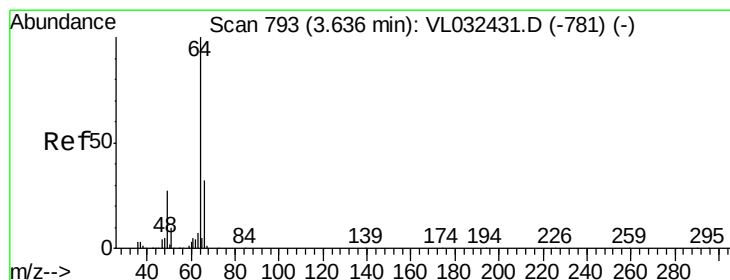
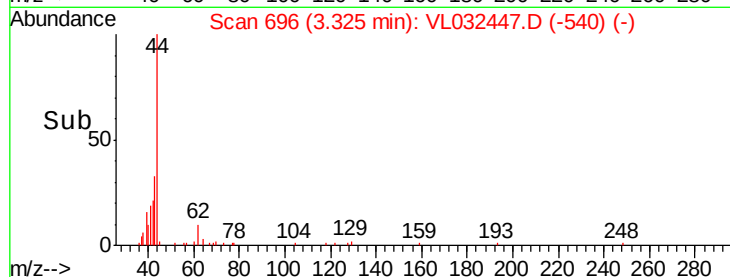
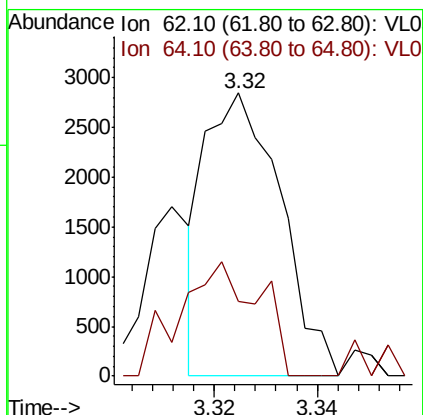
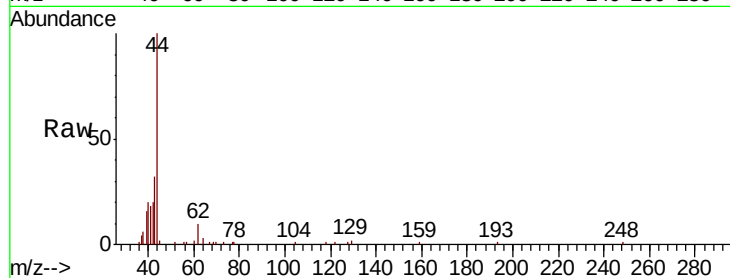
VP-04

Tgt Ion: 62 Resp: 2883

Ion Ratio Lower Upper

62 100

64 26.4 25.0 37.6



#7

Chloroethane

Concen: 0.045 ppbv

RT: 3.64 min Scan# 794

Delta R.T. 0.00 min

Lab File: VL032447.D

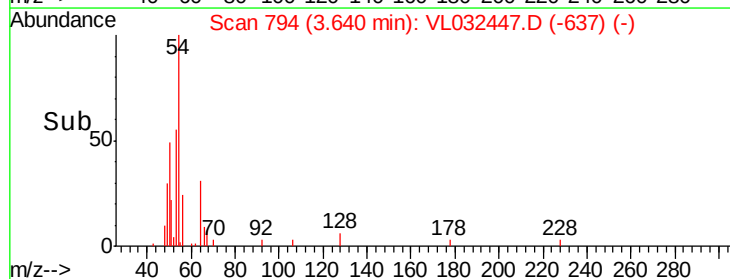
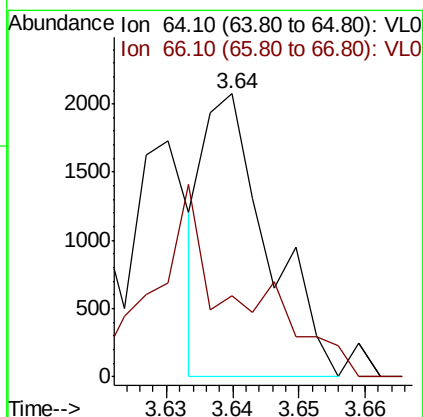
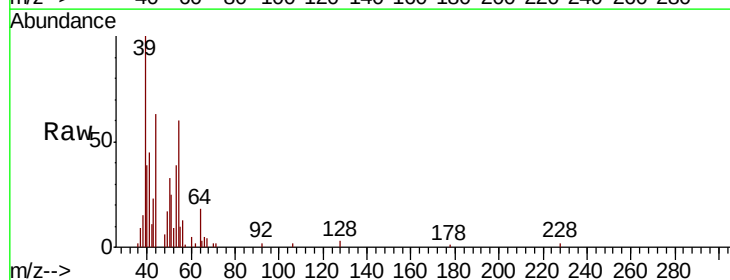
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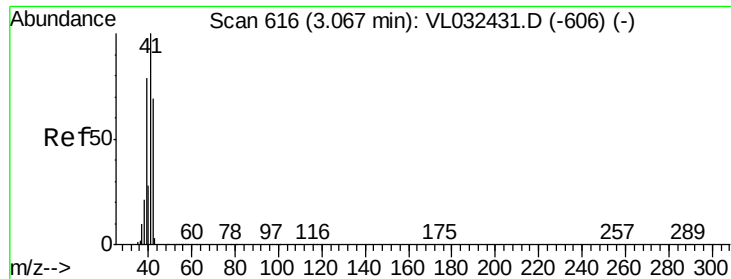
Tgt Ion: 64 Resp: 1395

Ion Ratio Lower Upper

64 100

66 28.5 25.8 38.6





#9

Propene

Concen: 163.920 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

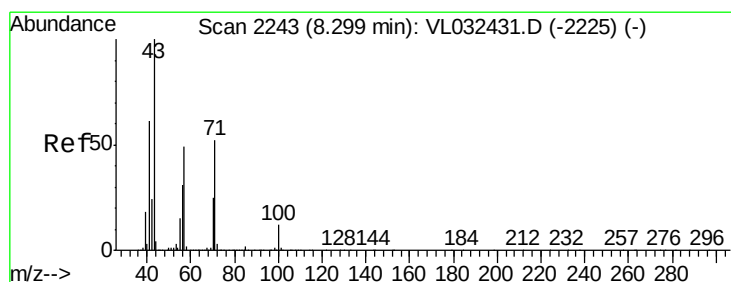
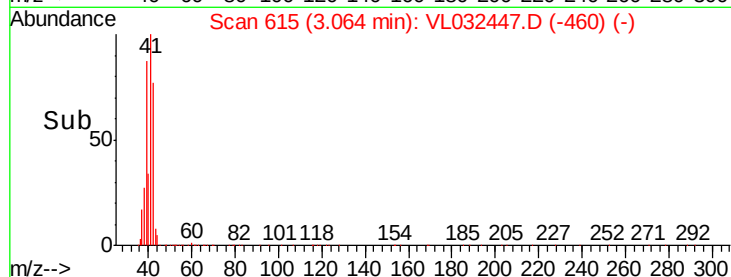
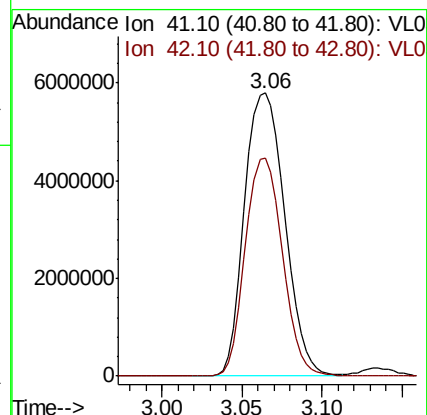
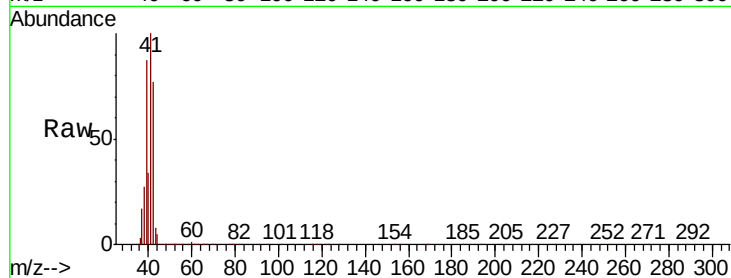
VP-04

Tgt Ion: 41 Resp: 9978707

Ion Ratio Lower Upper

41 100

42 71.4 56.6 84.8



#10

Heptane

Concen: 4.083 ppbv

RT: 8.30 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VL032447.D

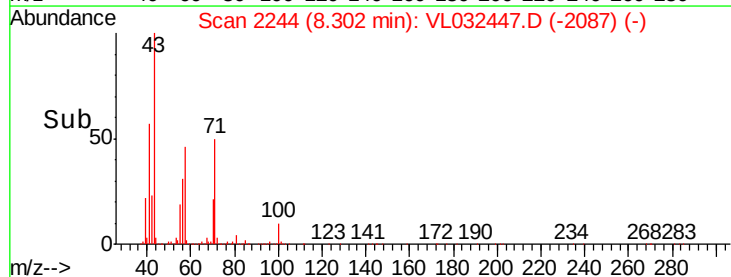
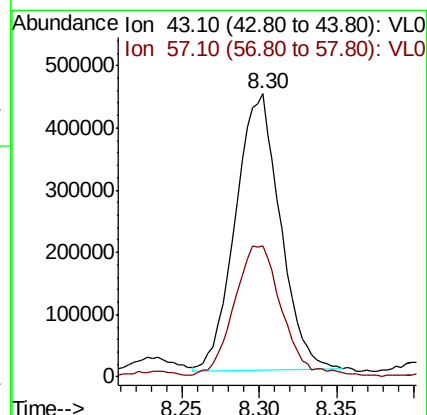
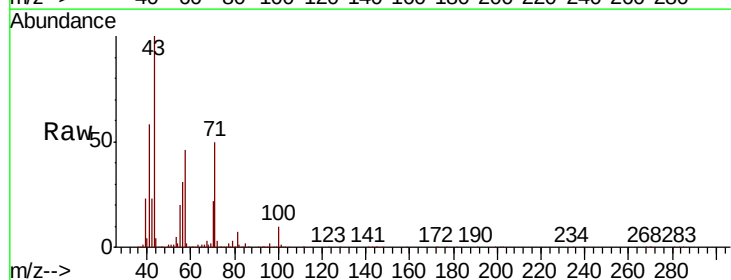
Acq: 31 Aug 2018 19:06

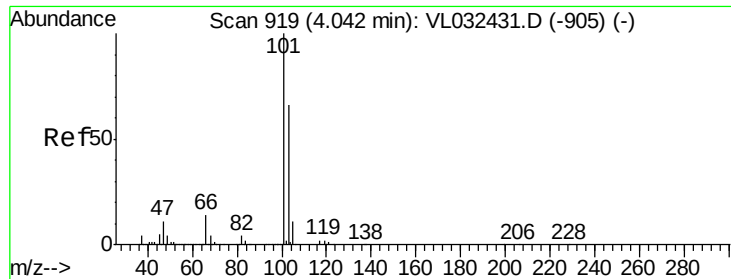
Tgt Ion: 43 Resp: 891648

Ion Ratio Lower Upper

43 100

57 50.6 39.6 59.4

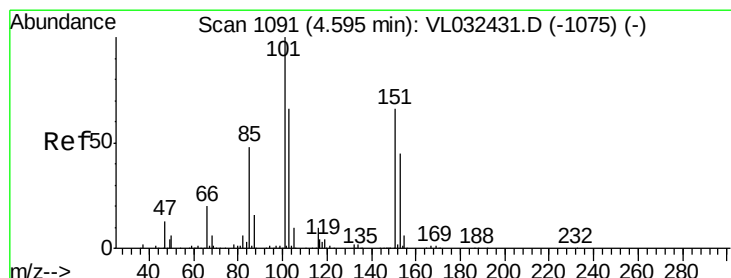
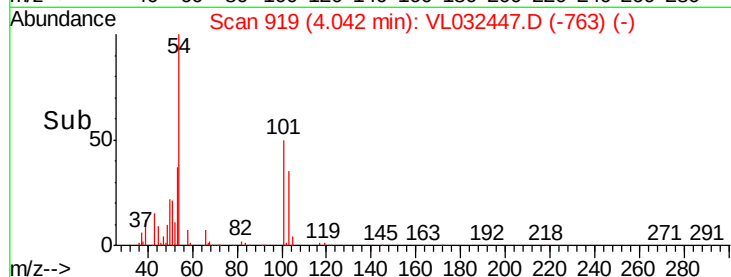
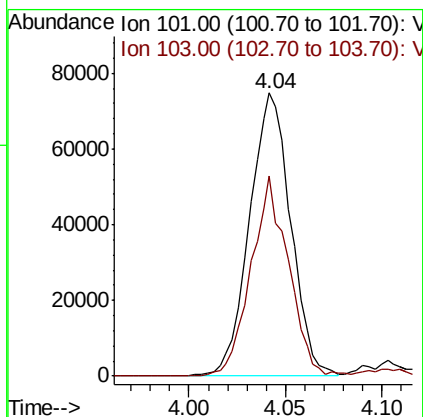
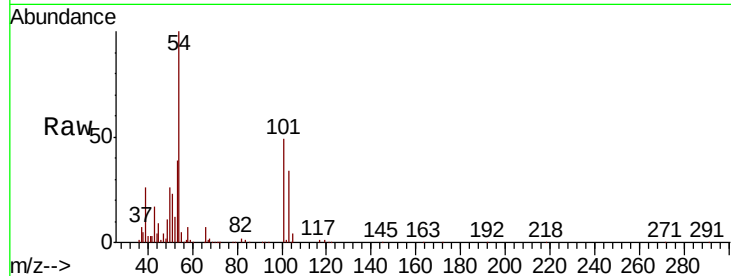




#11
 Trichlorofluoromethane
 Concen: 0.573 ppbv
 RT: 4.04 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

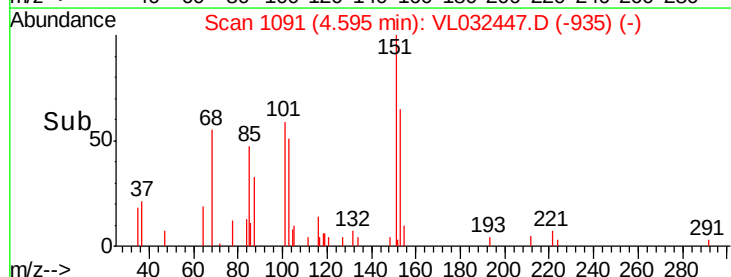
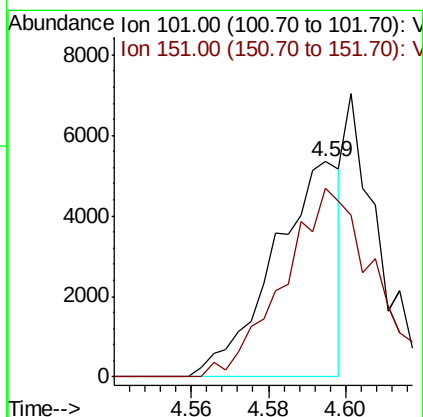
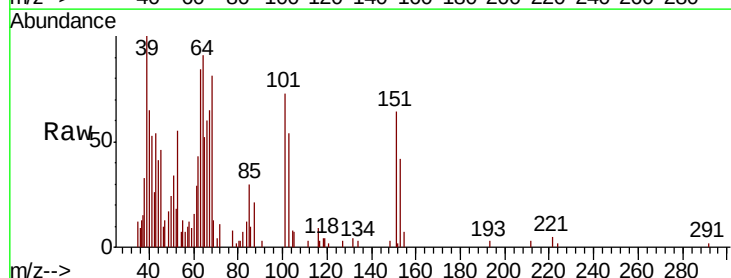
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04

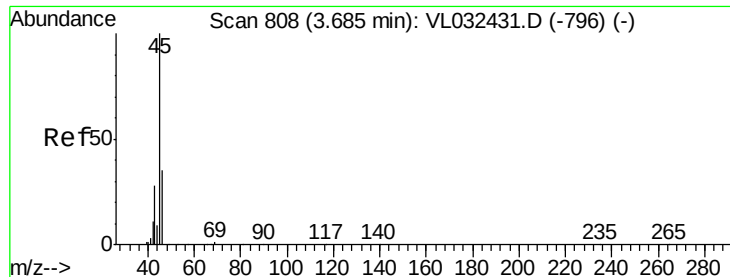
Tgt Ion:101 Resp: 110276
 Ion Ratio Lower Upper
 101 100
 103 70.8 52.8 79.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.049 ppbv
 RT: 4.59 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Tgt Ion:101 Resp: 6391
 Ion Ratio Lower Upper
 101 100
 151 118.4 52.6 78.8#





#13

Ethanol

Concen: 44.114 ppbv

RT: 3.69 min Scan# 809

Delta R.T. 0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

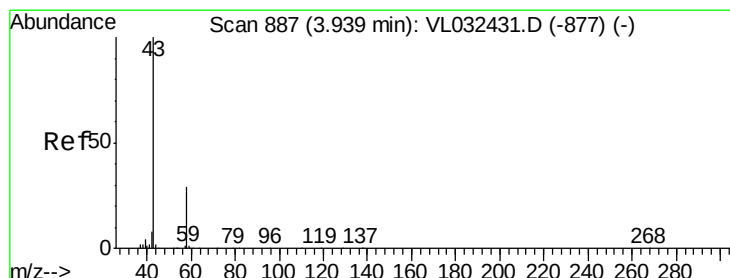
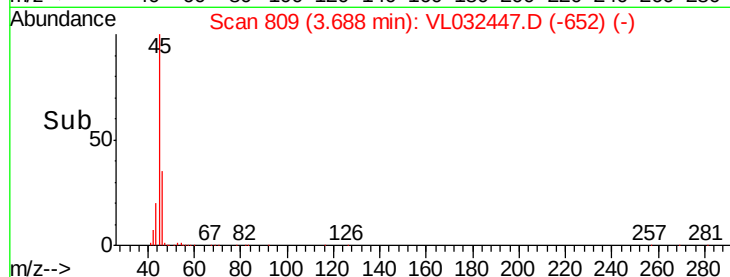
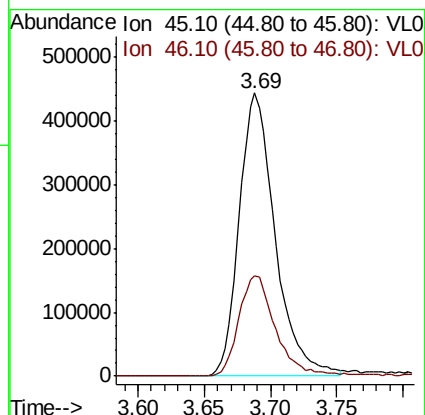
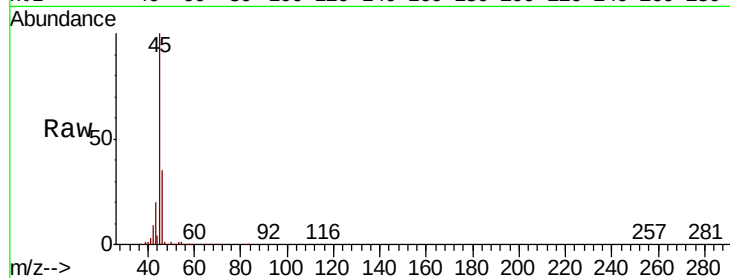
VP-04

Tgt Ion: 45 Resp: 837099

Ion Ratio Lower Upper

45 100

46 36.7 14.2 56.8



#15

Acetone

Concen: 110.596 ppbv

RT: 3.94 min Scan# 886

Delta R.T. -0.00 min

Lab File: VL032447.D

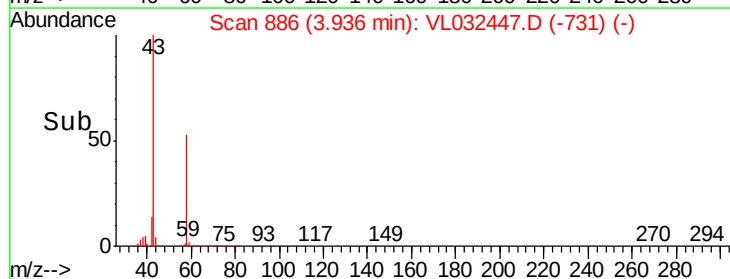
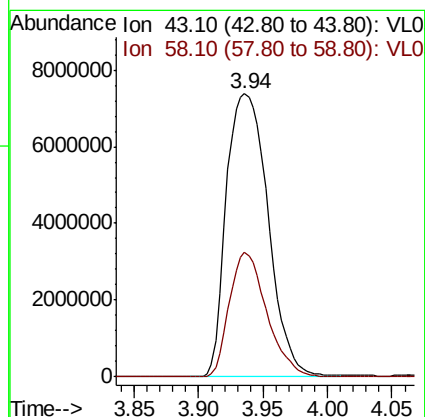
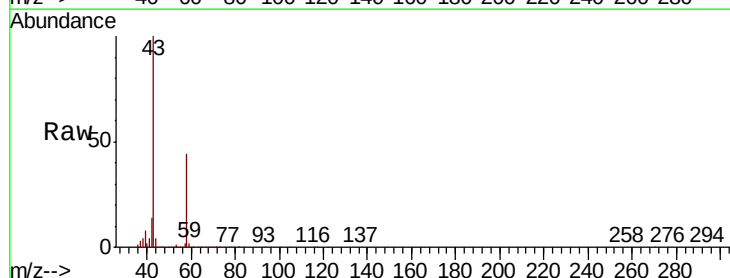
Acq: 31 Aug 2018 19:06

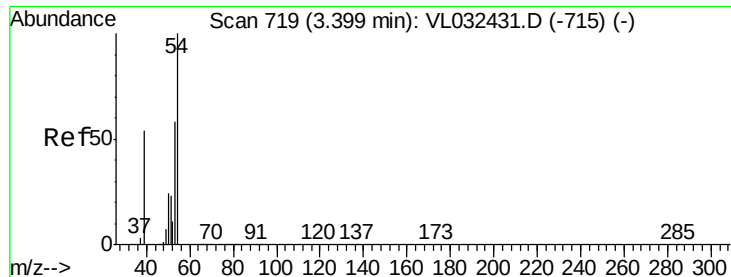
Tgt Ion: 43 Resp: 16603861

Ion Ratio Lower Upper

43 100

58 39.8 22.6 33.8#





#16

1,3-Butadiene

Concen: 103.978 ppbv

RT: 3.38 min Scan# 712

Delta R.T. -0.02 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

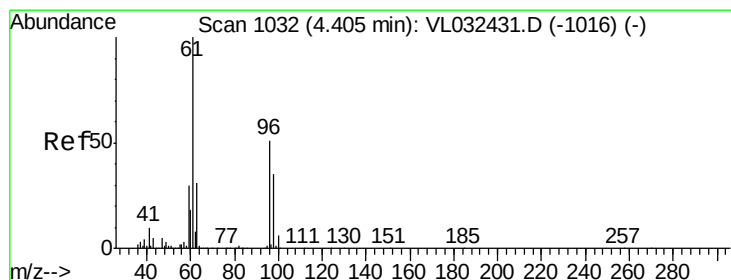
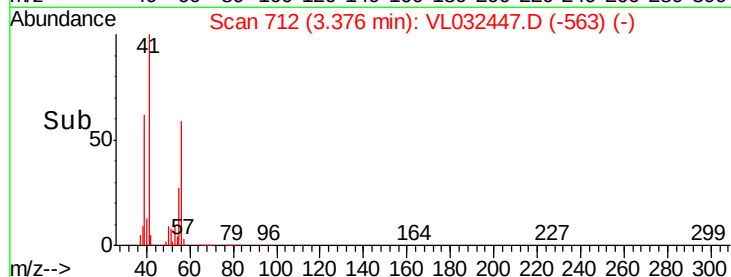
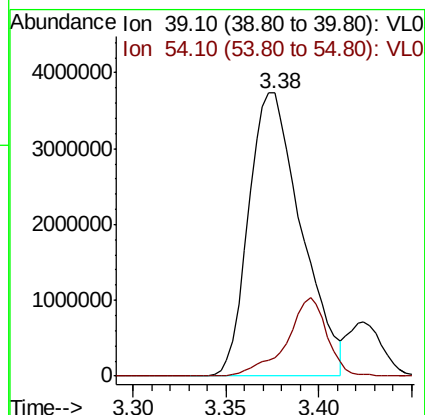
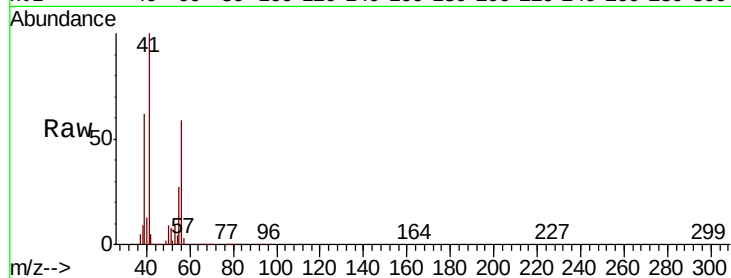
VP-04

Tgt Ion: 39 Resp: 7345536

Ion Ratio Lower Upper

39 100

54 21.6 80.8 121.2#



#17

tert-Butyl alcohol

Concen: 43.877 ppbv

RT: 4.40 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VL032447.D

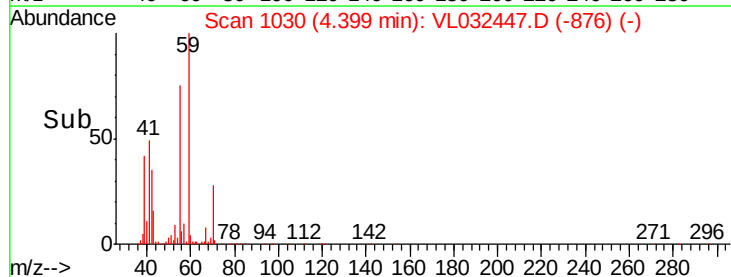
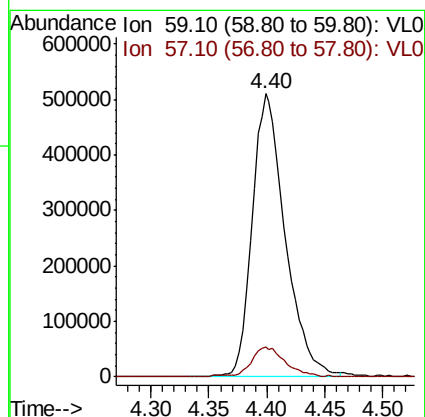
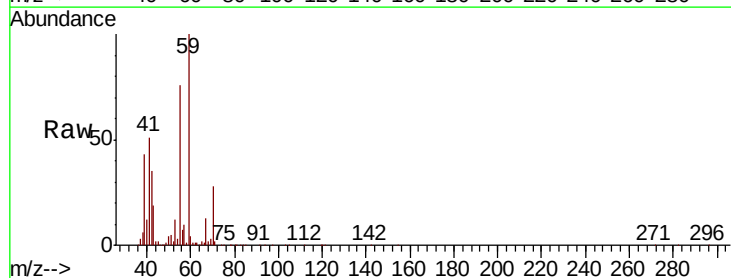
Acq: 31 Aug 2018 19:06

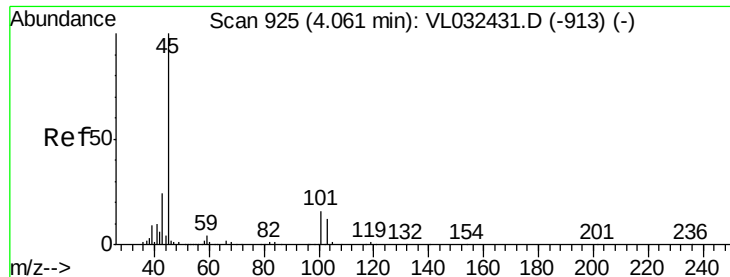
Tgt Ion: 59 Resp: 1013709

Ion Ratio Lower Upper

59 100

57 10.8 0.0 0.0#





#19

Isopropyl Alcohol

Concen: 3.088 ppbv

RT: 4.07 min Scan# 927

Delta R.T. 0.01 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

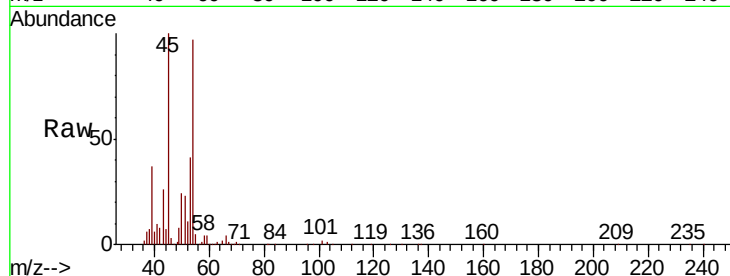
VP-04

Tgt Ion: 45 Resp: 304138

Ion Ratio Lower Upper

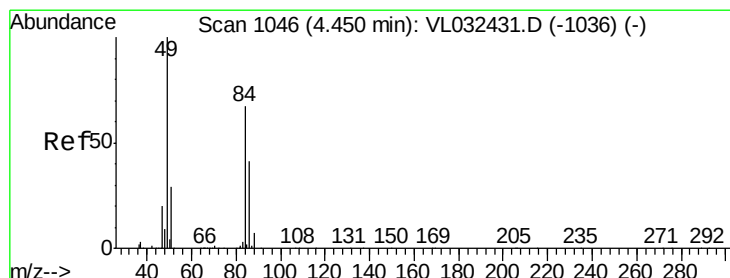
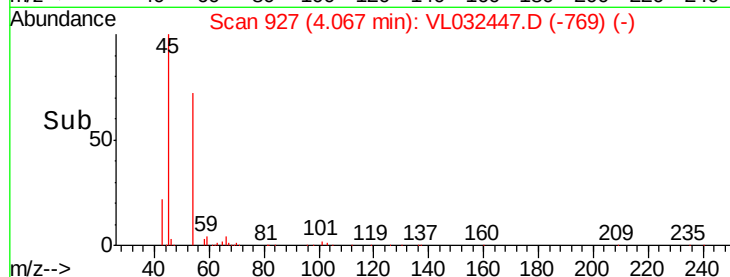
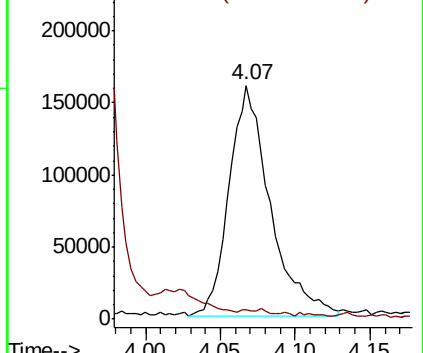
45 100

58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 13.911 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. 0.01 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Tgt Ion: 84 Resp: 796349

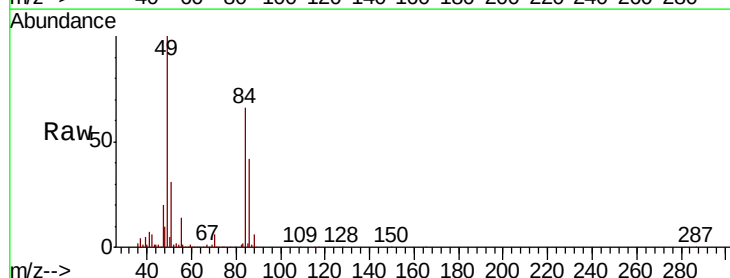
Ion Ratio Lower Upper

84 100

49 151.9 119.1 178.7

51 41.7 35.2 52.8

86 63.6 49.4 74.2

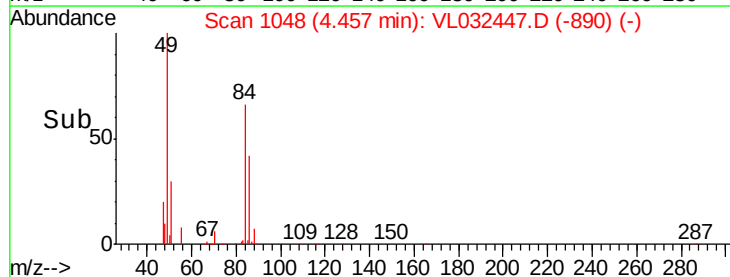
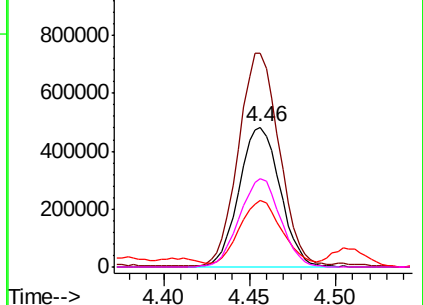


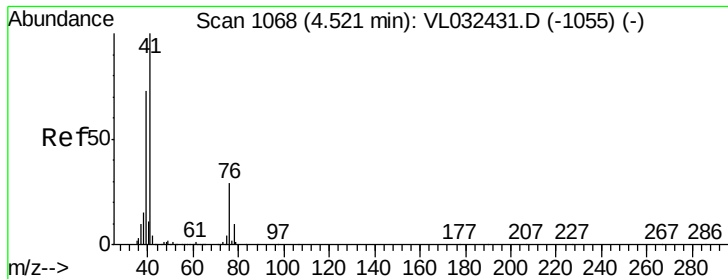
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

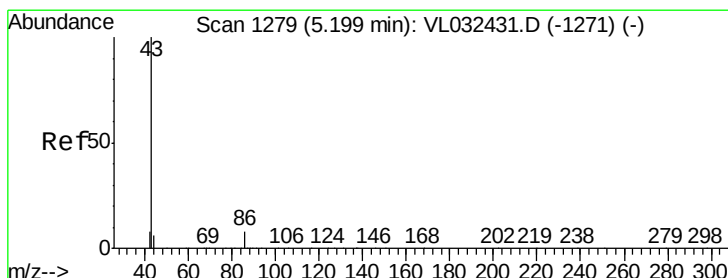
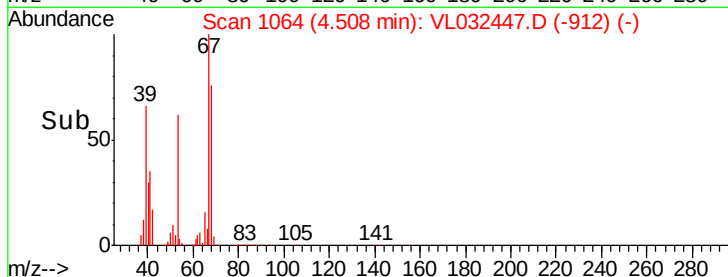
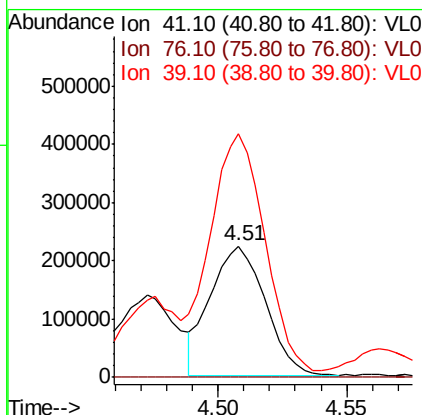
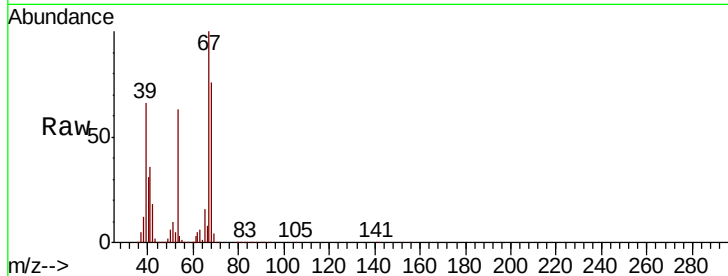




#21
 Allyl Chloride
 Concen: 3.286 ppbv
 RT: 4.51 min Scan# 1064
 Delta R.T. -0.01 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

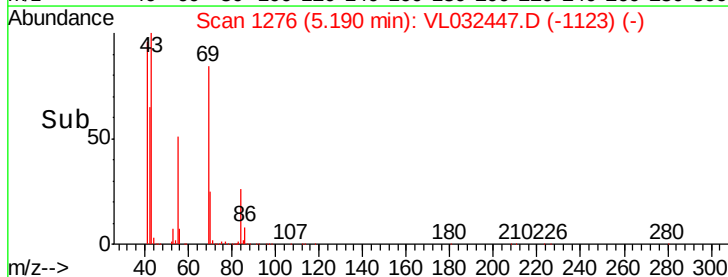
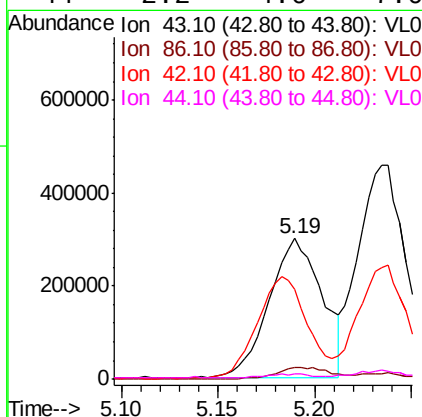
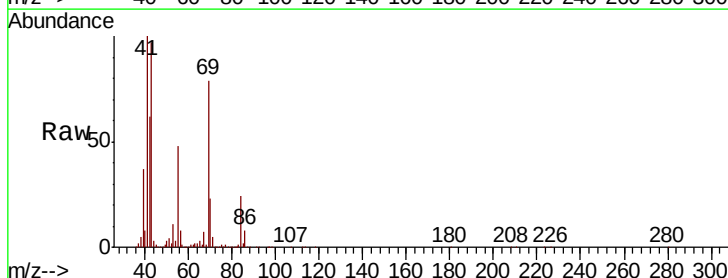
Instrument :
 MSVOA_L
 ClientSampleID :
 VP-04

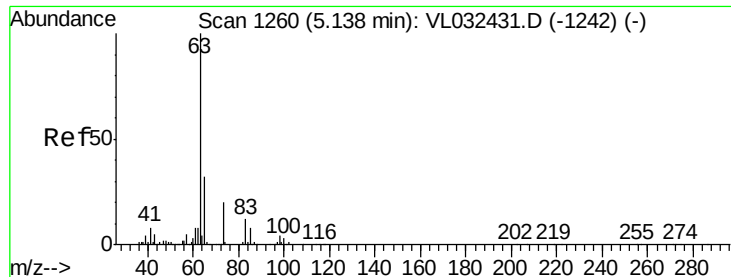
Tgt Ion: 41 Resp: 327702
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.6 35.4#
 39 235.1 57.7 86.5#



#23
 Vinyl Acetate
 Concen: 2.298 ppbv
 RT: 5.19 min Scan# 1276
 Delta R.T. -0.01 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Tgt Ion: 43 Resp: 571737
 Ion Ratio Lower Upper
 43 100
 86 8.0 5.9 8.9
 42 64.0 6.9 10.3#
 44 2.2 4.6 7.0#





#24

1,1-Dichloroethane

Concen: 0.048 ppbv

RT: 5.17 min Scan# 1271

Delta R.T. 0.04 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampled :

VP-04

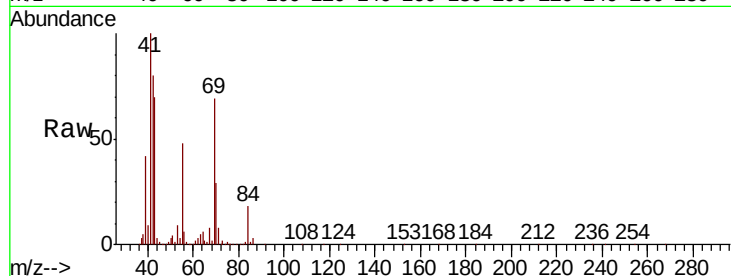
Tgt Ion: 63 Resp: 9814

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.5#

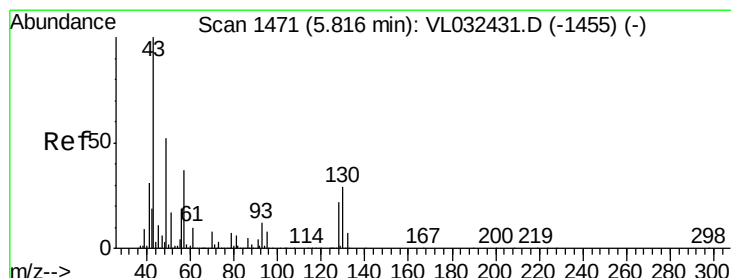
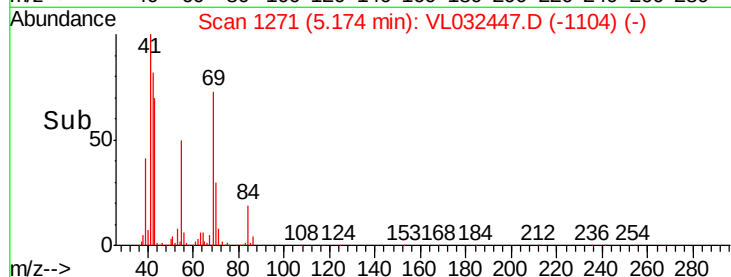
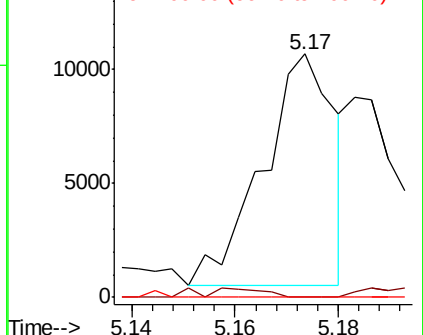
100 0.0 1.5 4.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 5.168 ppbv

RT: 5.83 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Tgt Ion: 43 Resp: 1832156

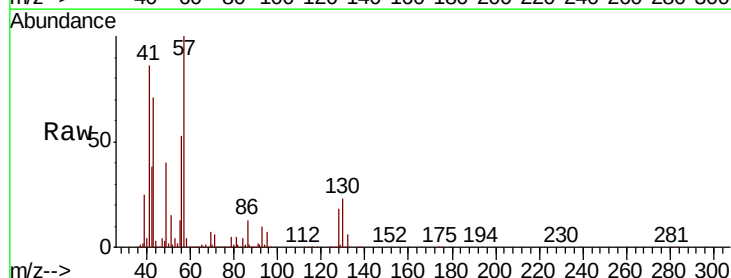
Ion Ratio Lower Upper

43 100

45 0.5 8.0 12.0#

61 0.4 7.6 11.4#

70 2.9 5.8 8.8#

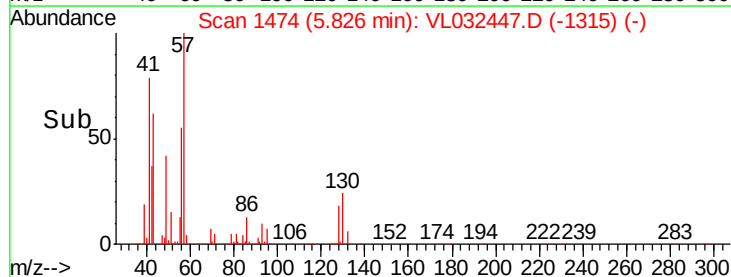
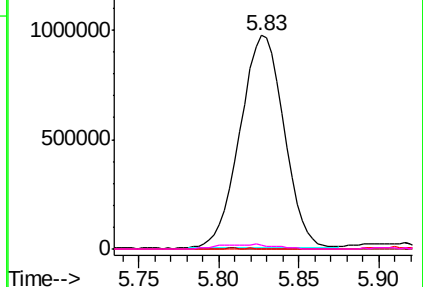


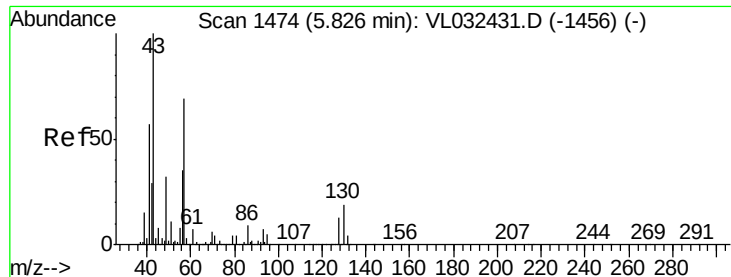
Abundance Ion 43.10 (42.80 to 43.80): VL0

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



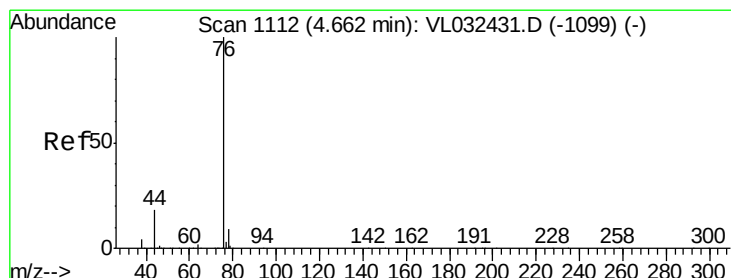
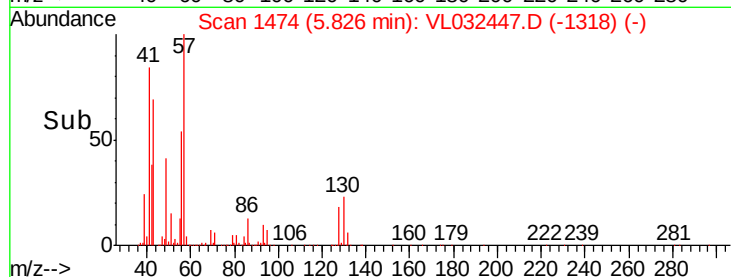
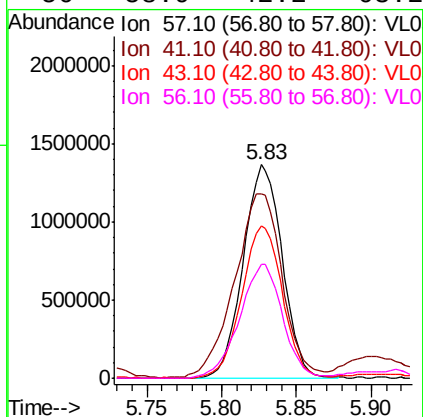
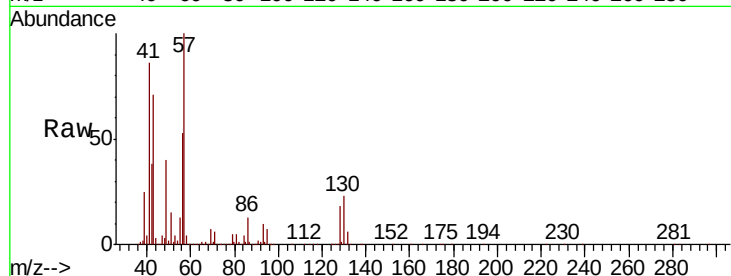


#26
Hexane
Concen: 15.617 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Instrument :
MSVOA_L
ClientSampleId :
VP-04

Tgt Ion: 57 Resp: 2479193

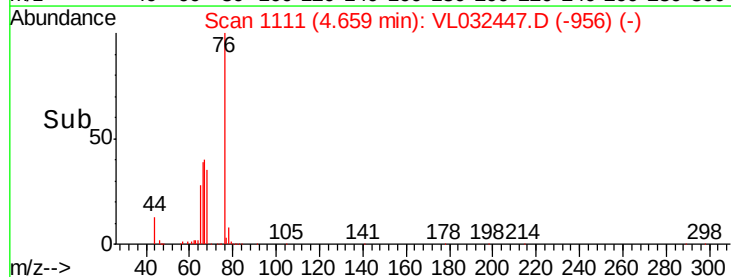
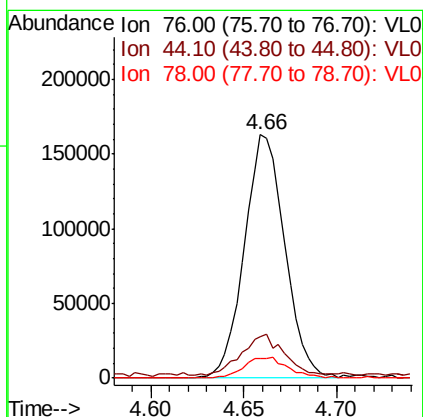
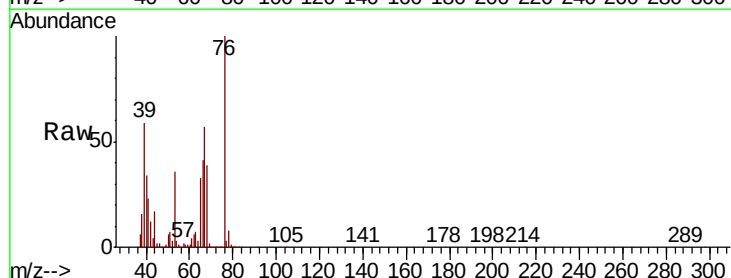
Ion	Ratio	Lower	Upper
57	100		
41	105.0	69.0	103.4#
43	74.4	172.1	258.1#
56	58.9	42.2	63.2

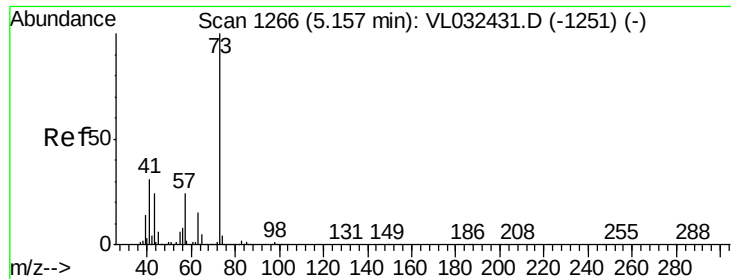


#27
Carbon Disulfide
Concen: 1.683 ppbv
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Tgt Ion: 76 Resp: 246656

Ion	Ratio	Lower	Upper
76	100		
44	19.6	14.0	21.0
78	9.5	7.5	11.3

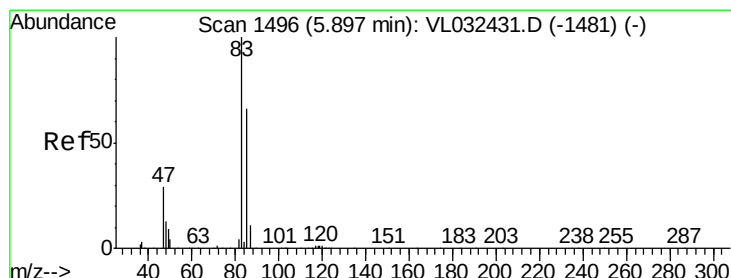
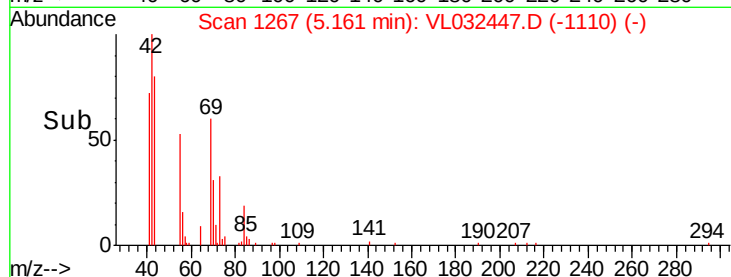
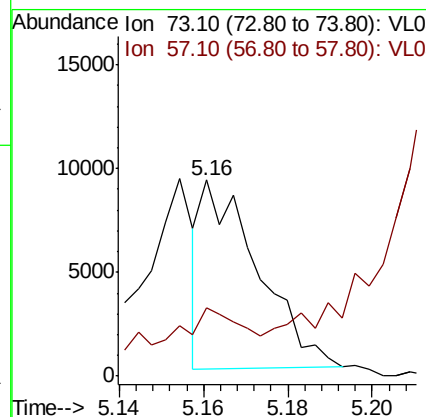
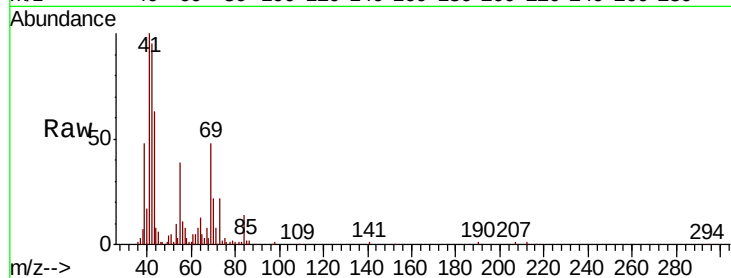




#28
Methyl tert-Butyl Ether
Concen: 0.043 ppbv
RT: 5.16 min Scan# 1267
Delta R.T. 0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

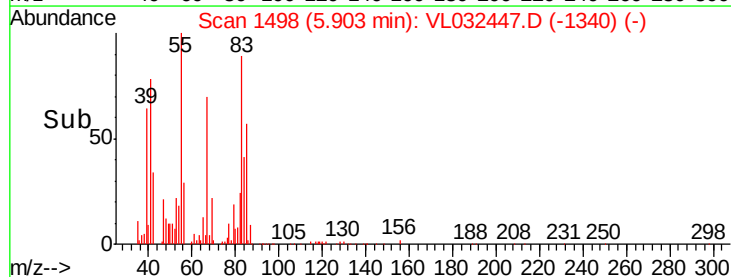
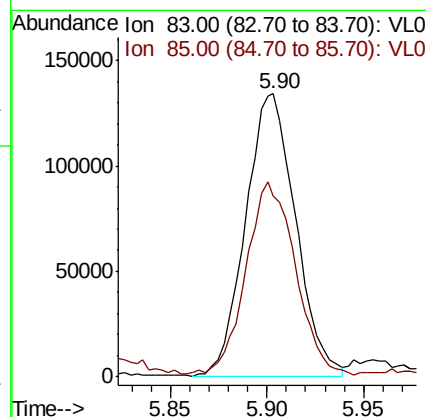
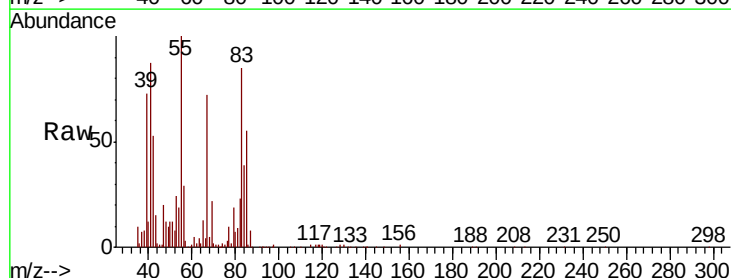
Instrument :
MSVOA_L
ClientSampleId :
VP-04

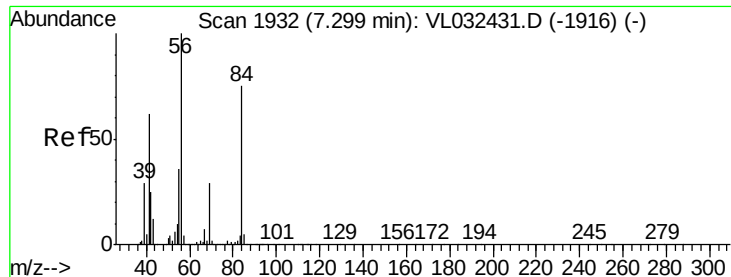
Tgt Ion: 73 Resp: 8439
Ion Ratio Lower Upper
73 100
57 0.0 19.3 28.9#



#29
Chloroform
Concen: 0.992 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.01 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Tgt Ion: 83 Resp: 240026
Ion Ratio Lower Upper
83 100
85 63.0 52.5 78.7

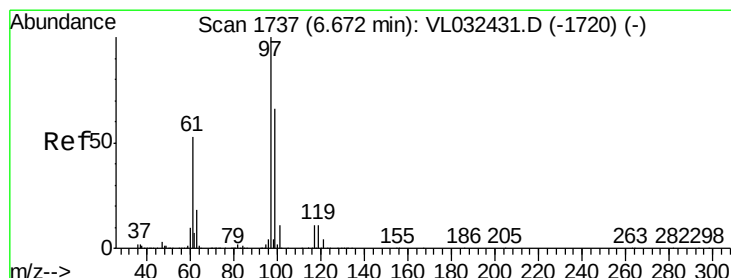
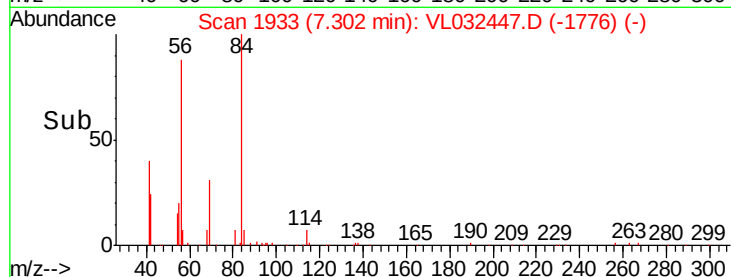
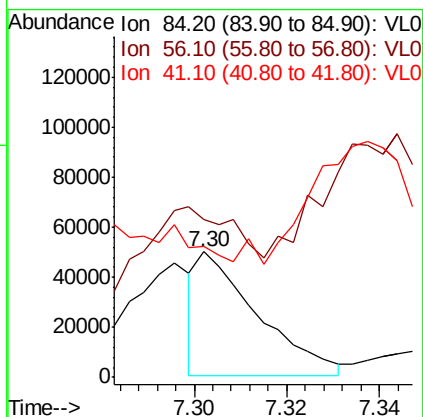
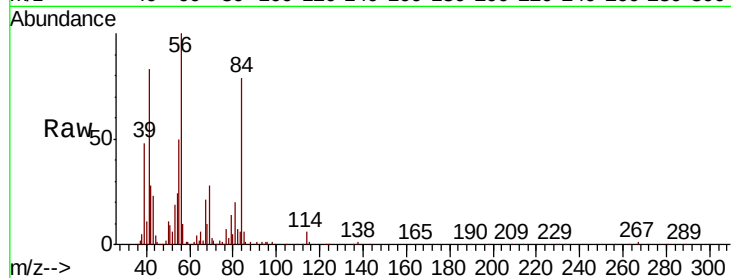




#30
Cyclohexane
Concen: 0.379 ppbv
RT: 7.30 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

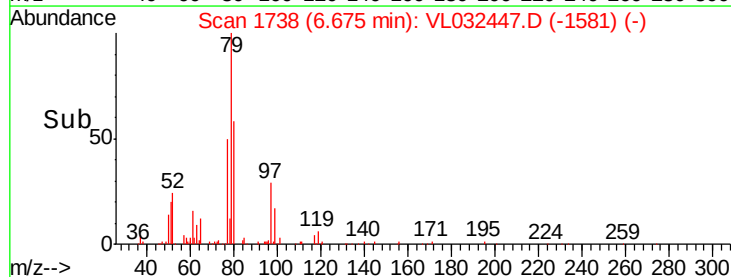
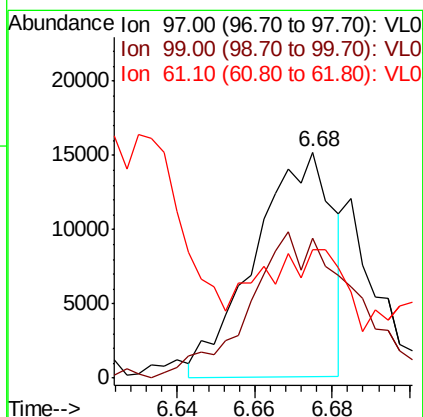
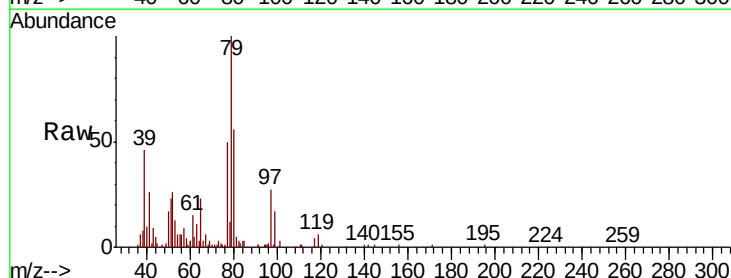
Instrument :
MSVOA_L
ClientSampleId :
VP-04

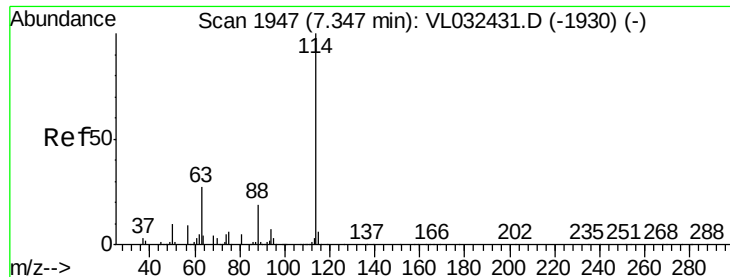
Tgt Ion: 84 Resp: 44103
Ion Ratio Lower Upper
84 100
56 0.0 113.5 170.3#
41 0.0 68.1 102.1#



#32
1,1,1-Trichloroethane
Concen: 0.094 ppbv
RT: 6.68 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Tgt Ion: 97 Resp: 21150
Ion Ratio Lower Upper
97 100
99 88.6 52.1 78.1#
61 55.8 42.5 63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.34 min Scan# 1946

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

VP-04

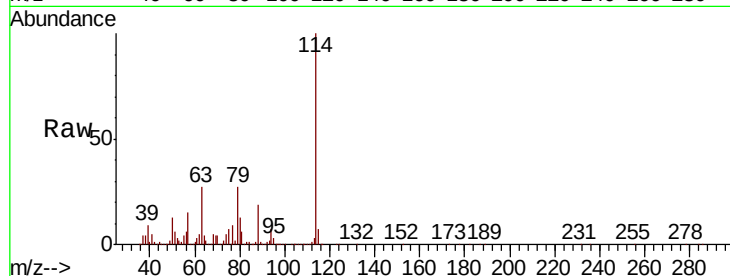
Tgt Ion: 114 Resp: 3489312

Ion Ratio Lower Upper

114 100

63 26.5 22.2 33.4

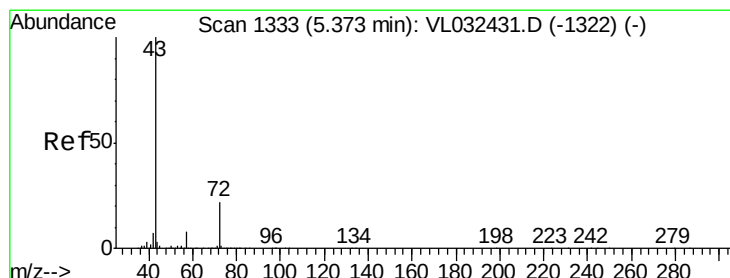
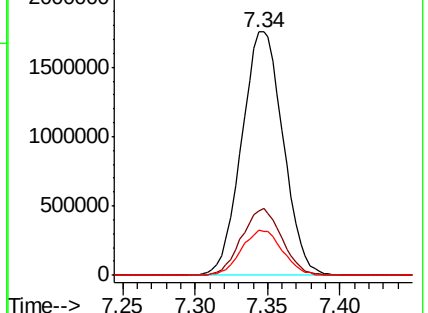
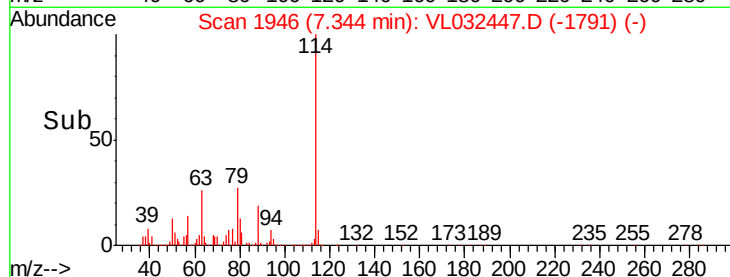
88 18.5 15.0 22.4



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: 18.798 ppbv

RT: 5.37 min Scan# 1333

Delta R.T. 0.00 min

Lab File: VL032447.D

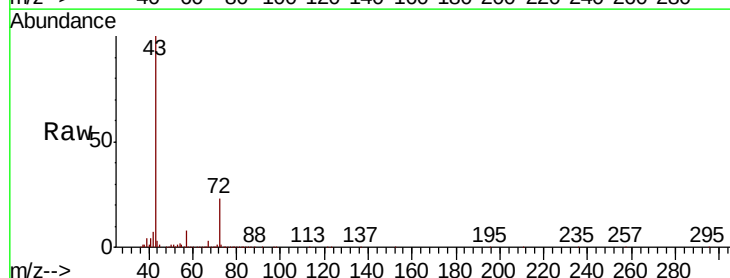
Acq: 31 Aug 2018 19:06

Tgt Ion: 43 Resp: 4356722

Ion Ratio Lower Upper

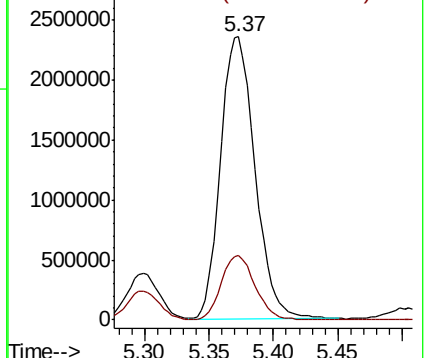
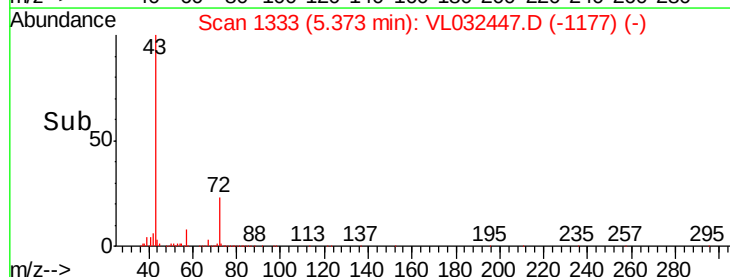
43 100

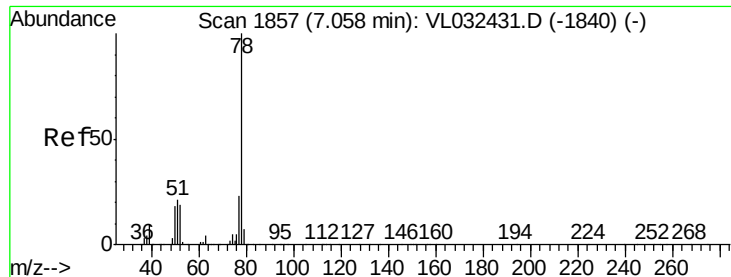
72 22.5 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 5.981 ppbv

RT: 7.06 min Scan# 1858

Delta R.T. 0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

VP-04

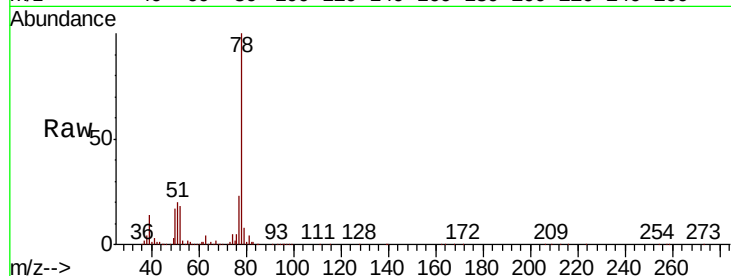
Tgt Ion: 78 Resp: 1775844

Ion Ratio Lower Upper

78 100

77 22.1 18.4 27.6

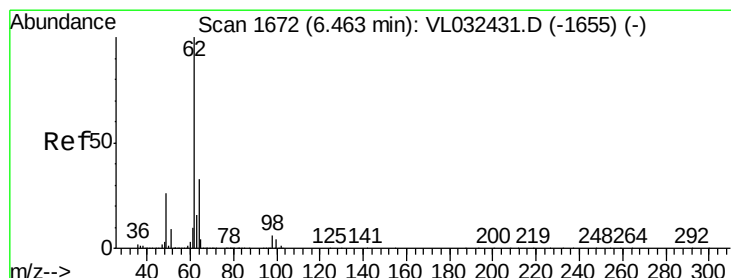
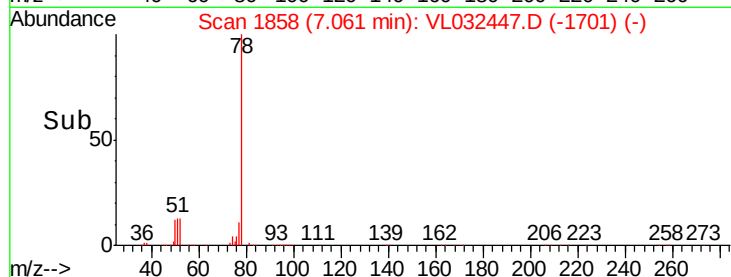
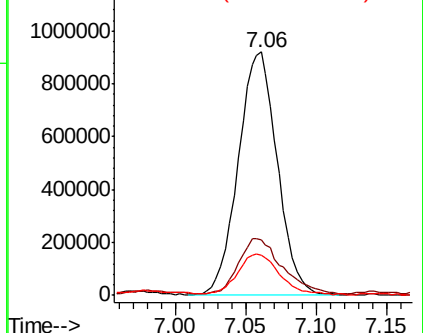
50 16.1 14.4 21.6



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.055 ppbv

RT: 6.47 min Scan# 1673

Delta R.T. 0.00 min

Lab File: VL032447.D

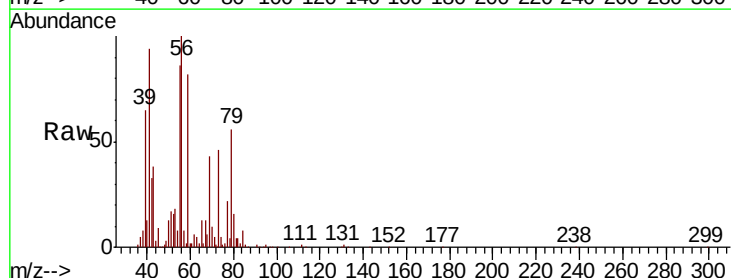
Acq: 31 Aug 2018 19:06

Tgt Ion: 62 Resp: 9987

Ion Ratio Lower Upper

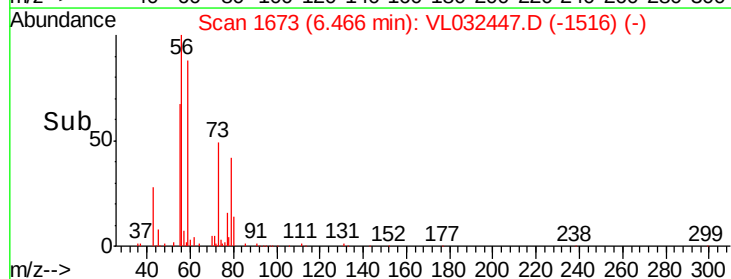
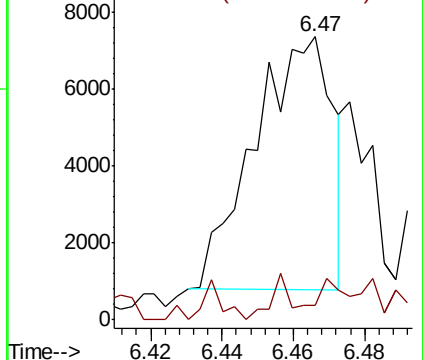
62 100

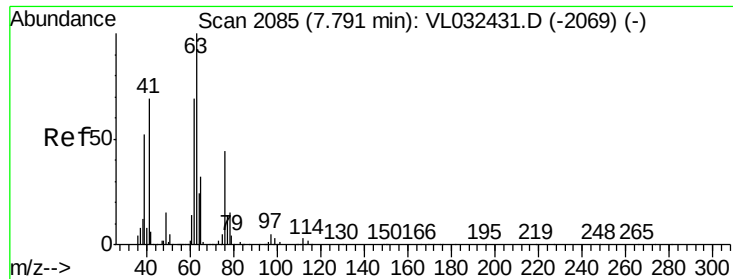
98 32.4 5.0 7.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

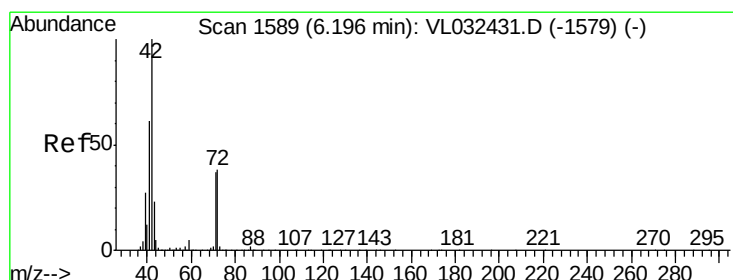
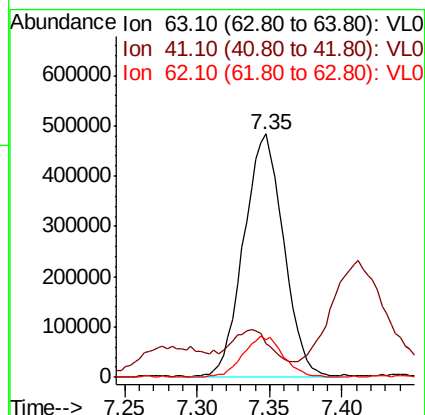
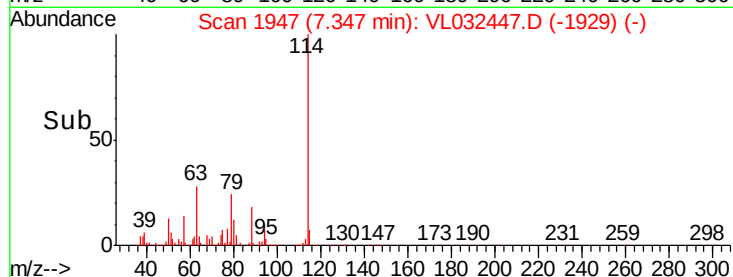
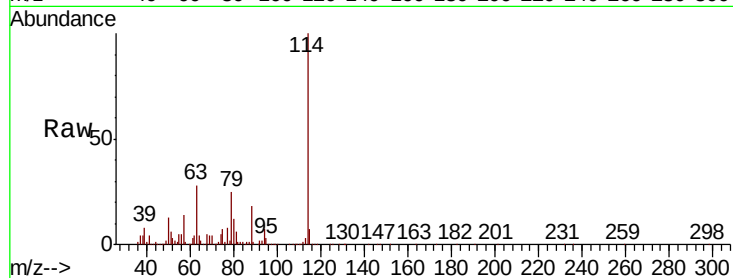




#39
 1,2-Dichloropropane
 Concen: 7.270 ppbv
 RT: 7.35 min Scan# 1947
 Delta R.T. -0.44 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

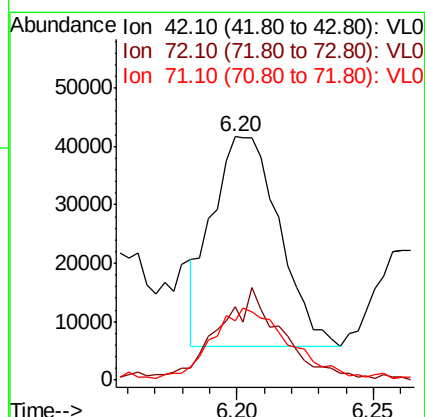
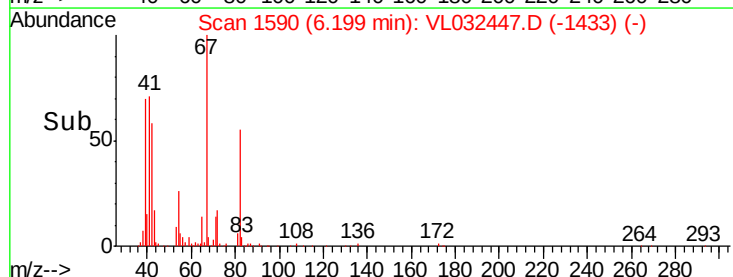
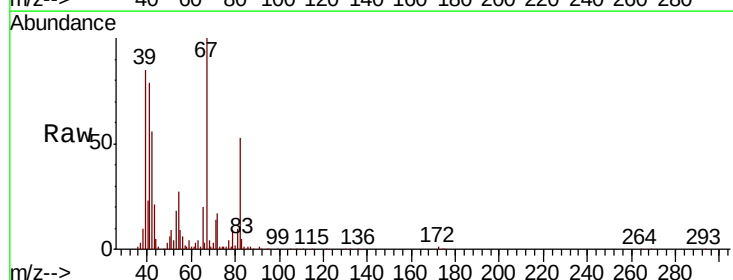
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04

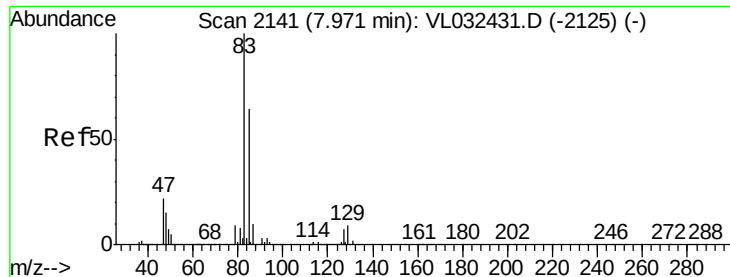
Tgt Ion	Ratio	Lower	Upper
63	100		
41	1.4	55.4	83.0#
62	15.0	55.4	83.0#



#41
 Tetrahydrofuran
 Concen: 0.485 ppbv
 RT: 6.20 min Scan# 1590
 Delta R.T. 0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Tgt Ion	Ratio	Lower	Upper
42	100		
72	44.7	29.5	44.3#
71	42.1	28.3	42.5





#42

Bromodichloromethane

Concen: 0.103 ppbv

RT: 7.97 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampled :

VP-04

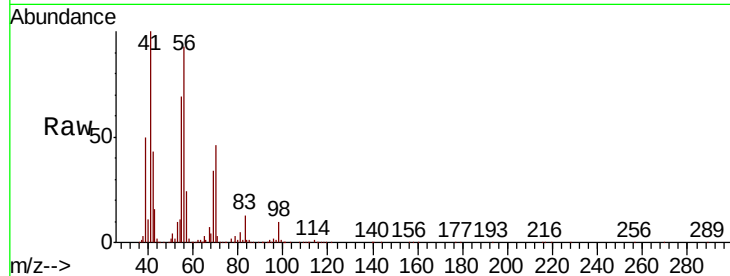
Tgt Ion: 83 Resp: 25730

Ion Ratio Lower Upper

83 100

85 2.3 51.1 76.7#

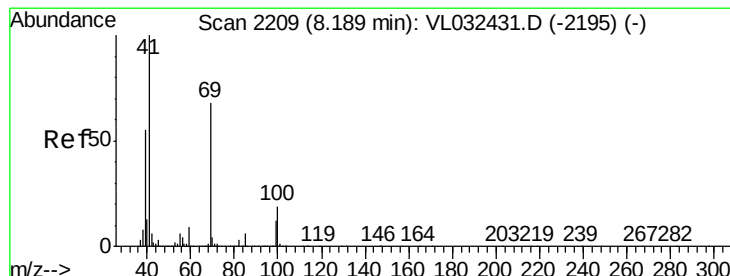
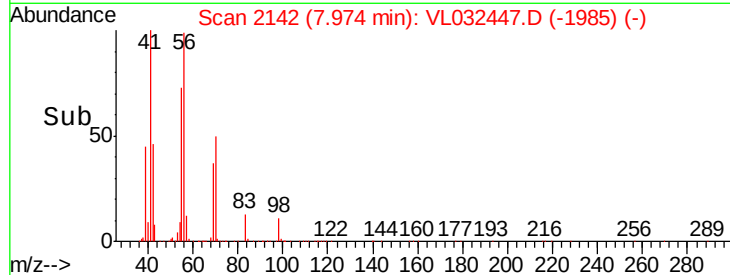
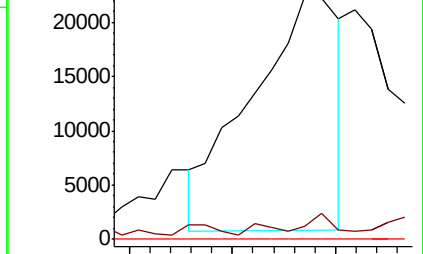
127 0.0 5.8 8.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.104 ppbv

RT: 8.18 min Scan# 2207

Delta R.T. -0.01 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

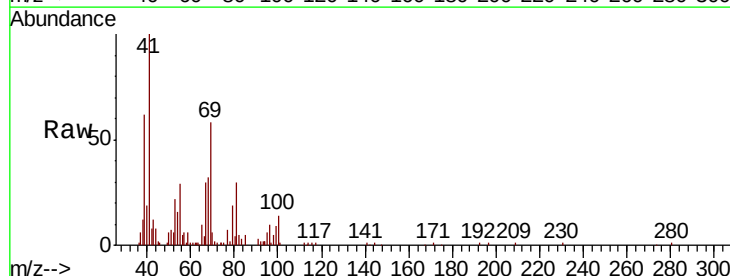
Tgt Ion: 69 Resp: 13074

Ion Ratio Lower Upper

69 100

41 0.0 117.1 175.7#

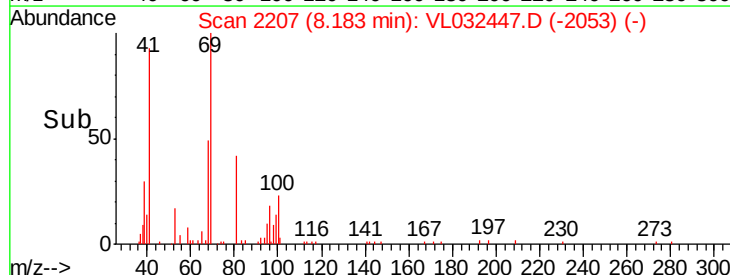
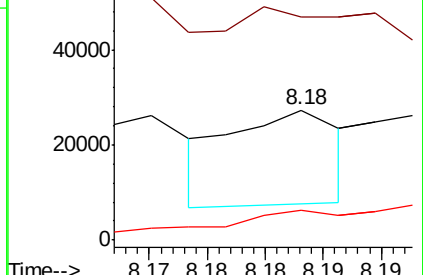
100 0.0 23.4 35.2#

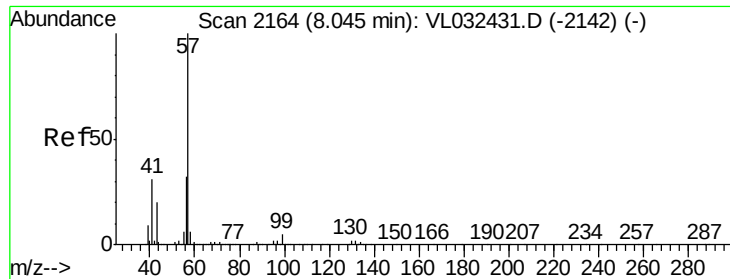


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.183 ppbv

RT: 8.04 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

VP-04

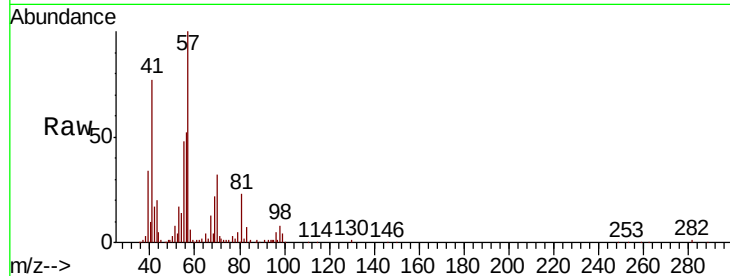
Tgt Ion: 57 Resp: 104927

Ion Ratio Lower Upper

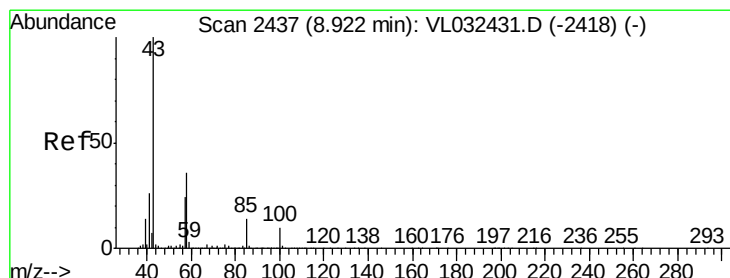
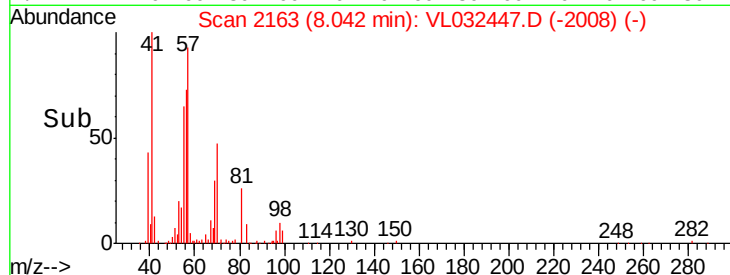
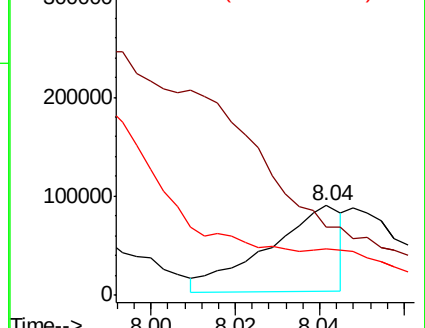
57 100

41 0.0 24.4 36.6#

56 0.0 25.7 38.5#



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



#50

4-Methyl-2-Pentanone

Concen: 1.759 ppbv

RT: 8.92 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VL032447.D

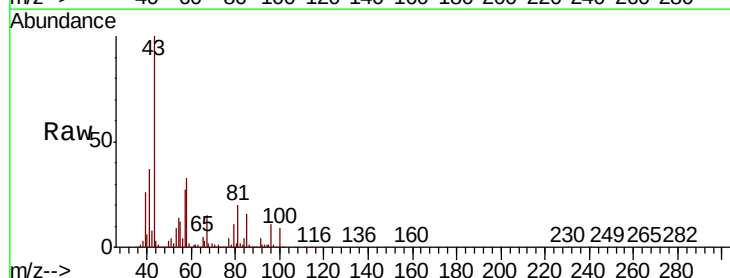
Acq: 31 Aug 2018 19:06

Tgt Ion: 43 Resp: 614196

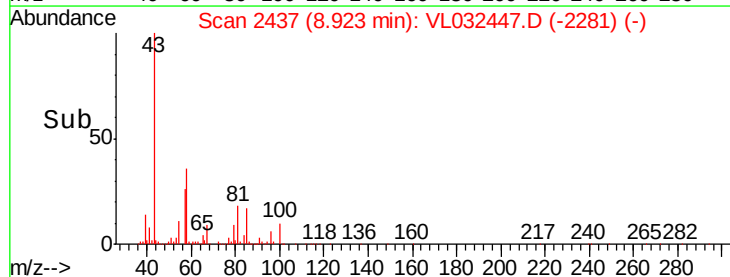
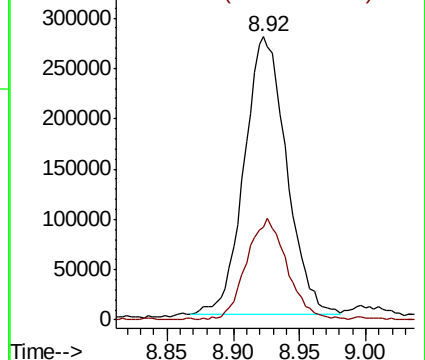
Ion Ratio Lower Upper

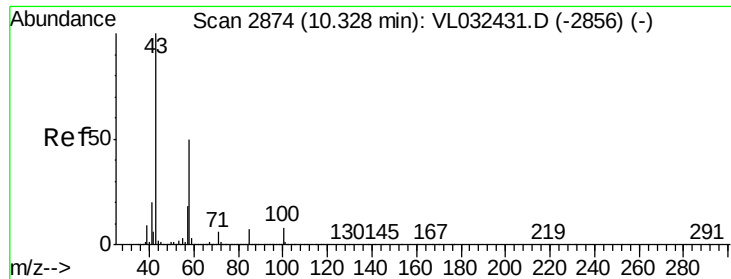
43 100

58 34.8 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

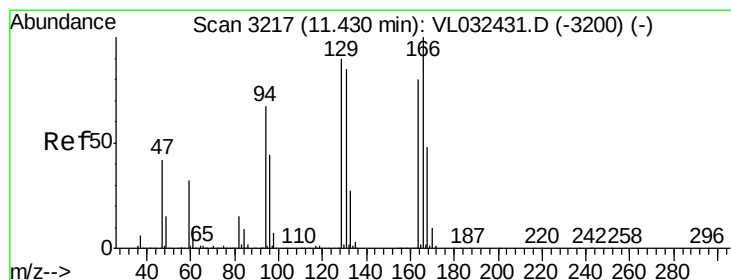
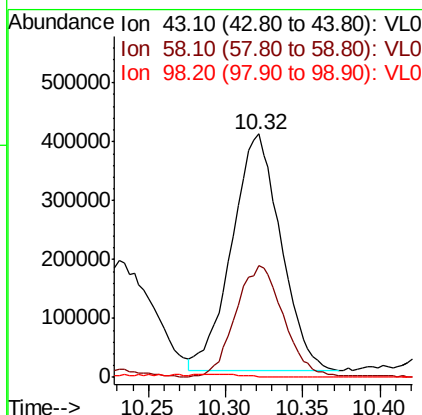
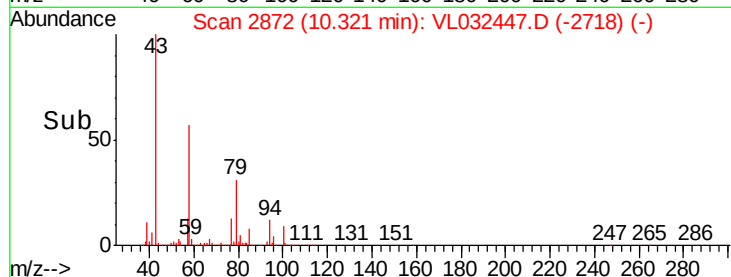
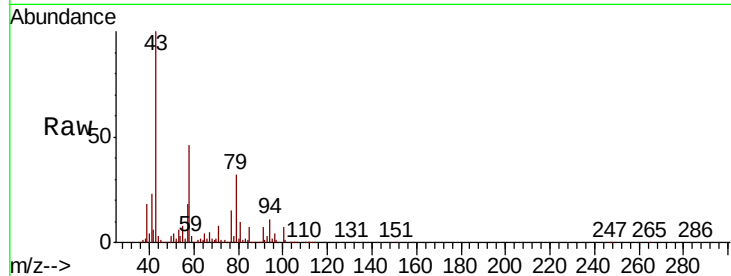




#51
2-Hexanone
Concen: 3.931 ppbv
RT: 10.32 min Scan# 2872
Delta R.T. -0.01 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

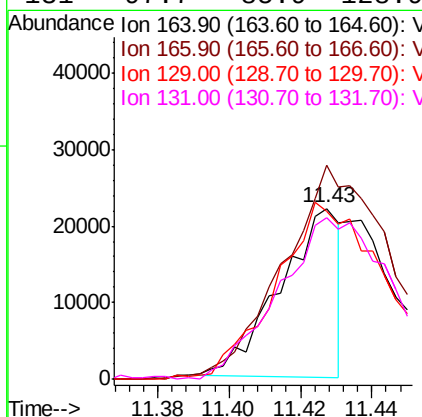
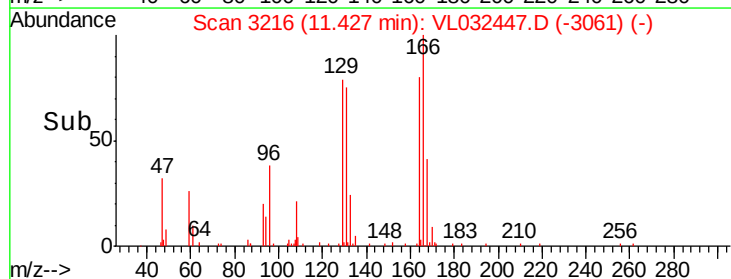
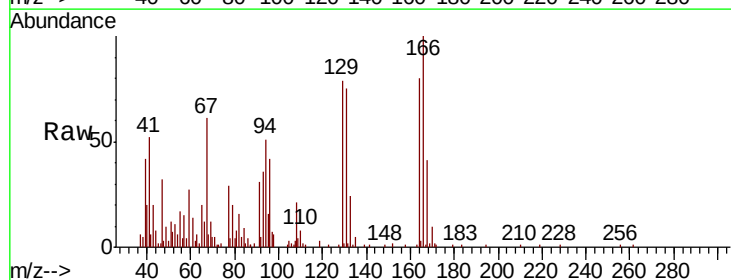
Instrument :
MSVOA_L
ClientSampled :
VP-04

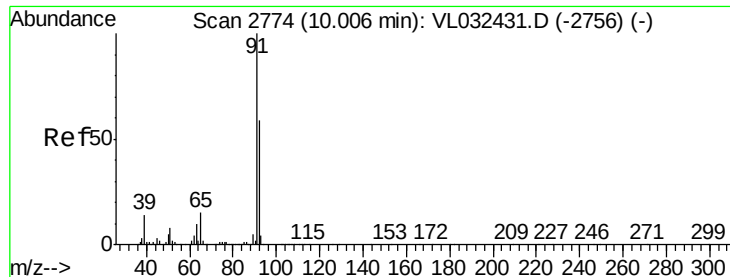
Tgt Ion: 43 Resp: 884127
Ion Ratio Lower Upper
43 100
58 46.4 39.2 58.8
98 1.2 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.278 ppbv
RT: 11.43 min Scan# 3216
Delta R.T. -0.00 min
Lab File: VL032447.D
Acq: 31 Aug 2018 19:06

Tgt Ion: 164 Resp: 25618
Ion Ratio Lower Upper
164 100
166 125.4 100.6 150.8
129 99.1 89.9 134.9
131 97.7 85.9 128.9





#53

Toluene

Concen: 16.203 ppbv

RT: 10.00 min Scan# 2772

Delta R.T. -0.01 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

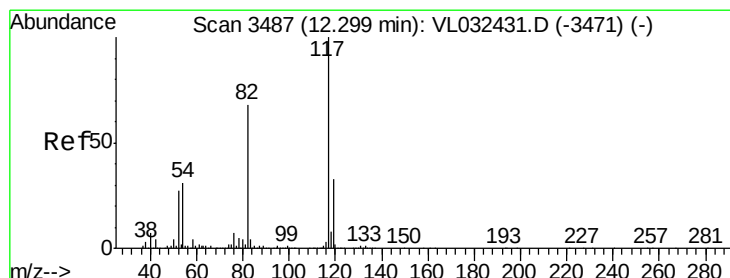
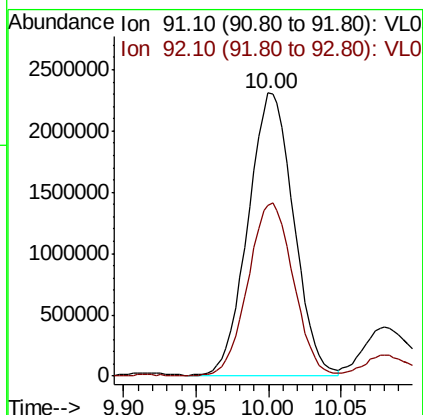
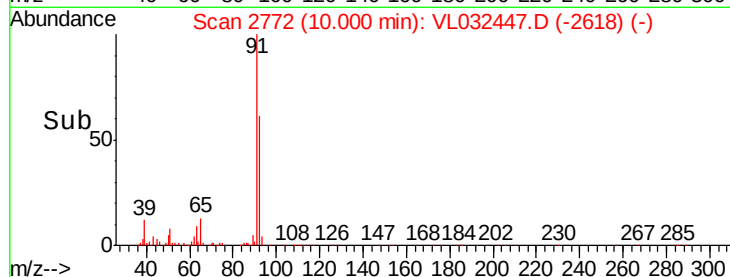
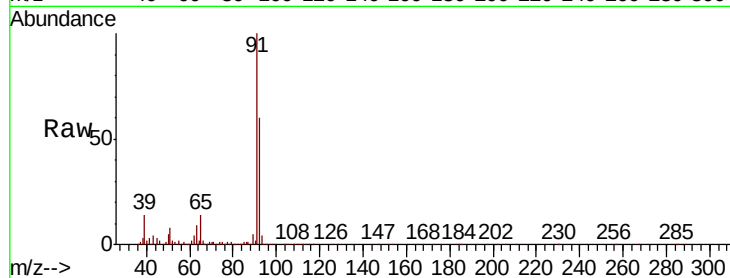
VP-04

Tgt Ion: 91 Resp: 5029243

Ion Ratio Lower Upper

91 100

92 60.8 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 3486

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

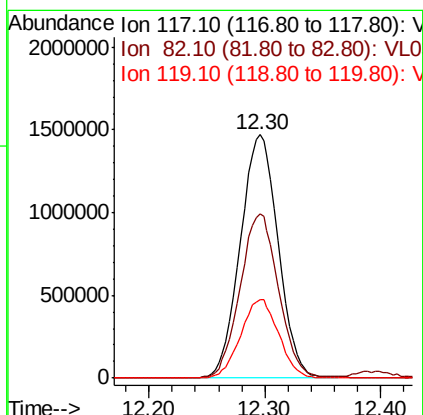
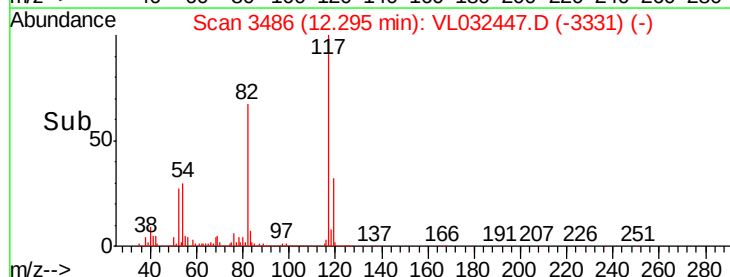
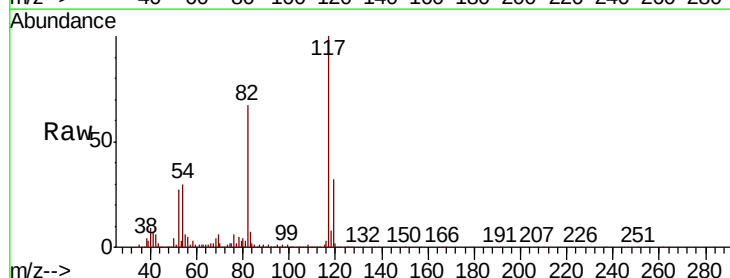
Tgt Ion: 117 Resp: 3341000

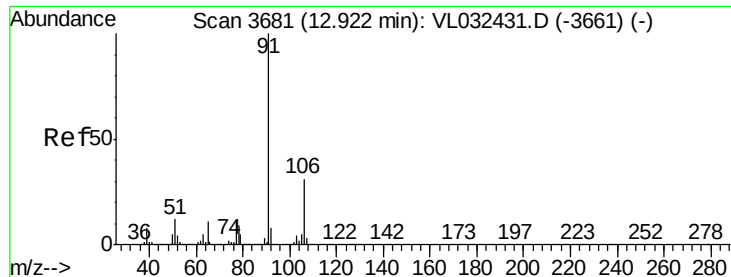
Ion Ratio Lower Upper

117 100

82 68.2 53.0 79.6

119 32.3 45.9 68.9#





#58

Ethyl Benzene

Concen: 4.632 ppbv

RT: 12.92 min Scan# 3680

Delta R.T. -0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

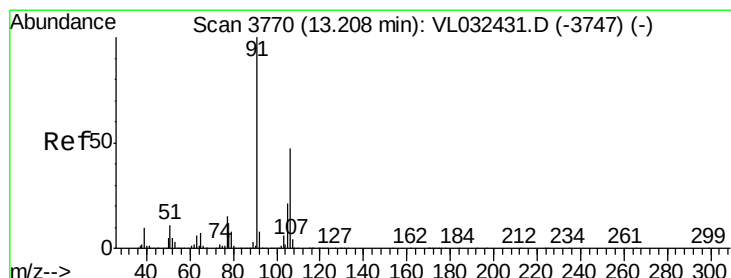
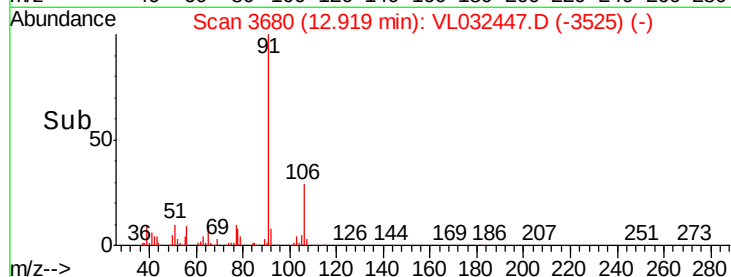
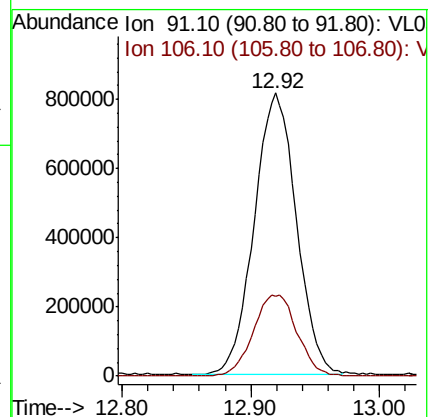
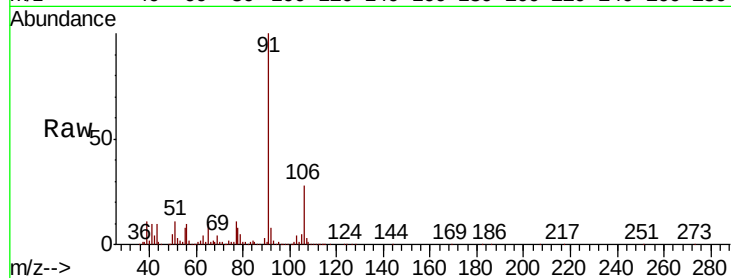
VP-04

Tgt Ion: 91 Resp: 1852045

Ion Ratio Lower Upper

91 100

106 28.5 24.8 37.2



#59

m/p-Xylene

Concen: 14.381 ppbv

RT: 13.17 min Scan# 3759

Delta R.T. -0.04 min

Lab File: VL032447.D

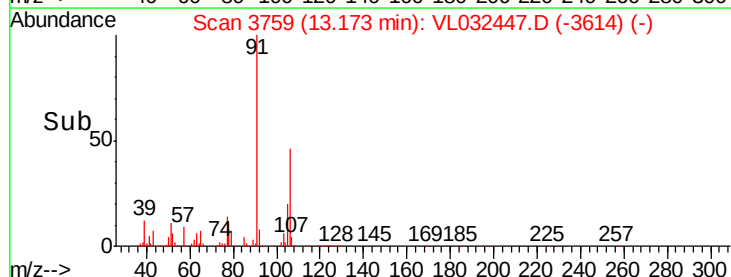
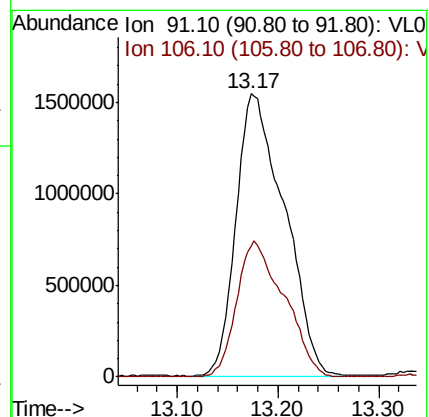
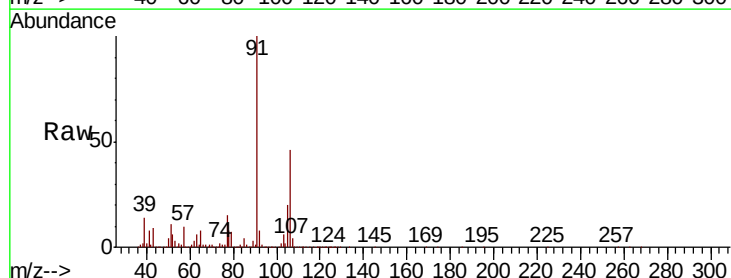
Acq: 31 Aug 2018 19:06

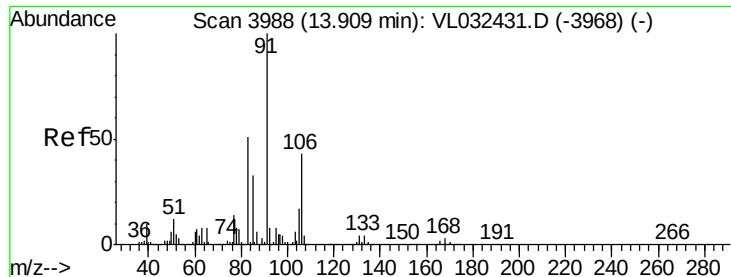
Tgt Ion: 91 Resp: 5126178

Ion Ratio Lower Upper

91 100

106 47.3 36.6 55.0





#60

o-Xylene

Concen: 4.592 ppbv

RT: 13.90 min Scan# 3986

Delta R.T. -0.01 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

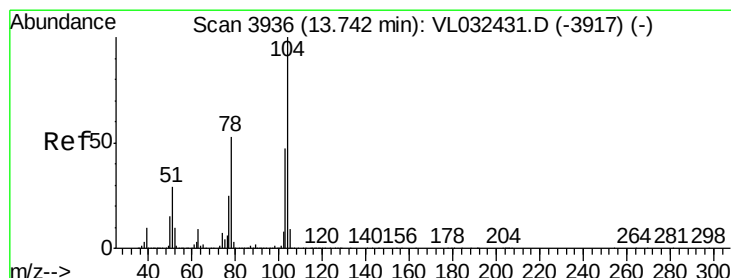
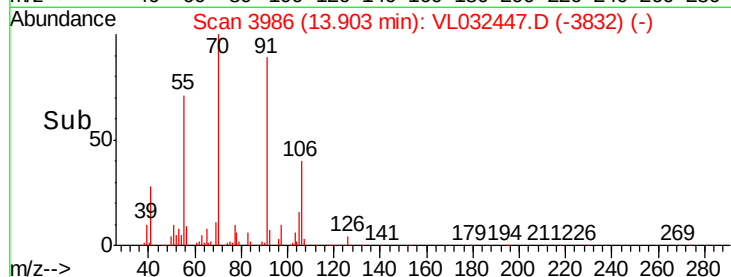
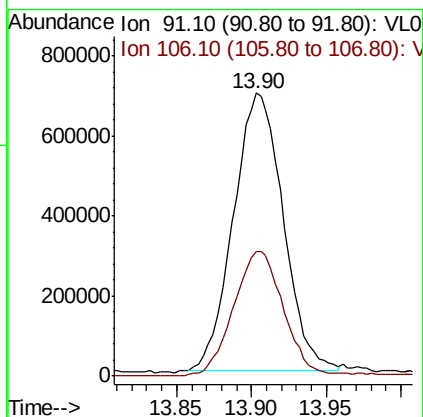
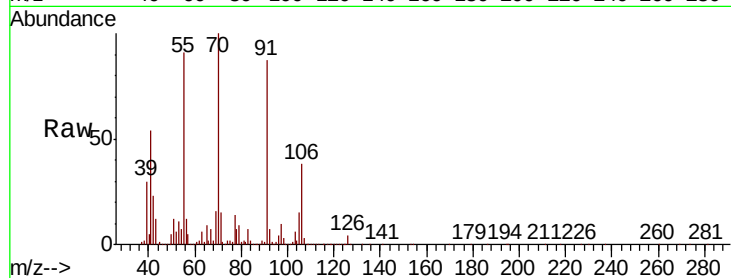
VP-04

Tgt Ion: 91 Resp: 1607839

Ion Ratio Lower Upper

91 100

106 45.3 21.9 65.7



#61

Styrene

Concen: 0.712 ppbv

RT: 13.75 min Scan# 3937

Delta R.T. 0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

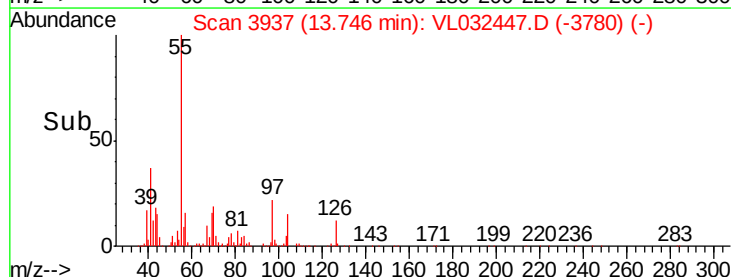
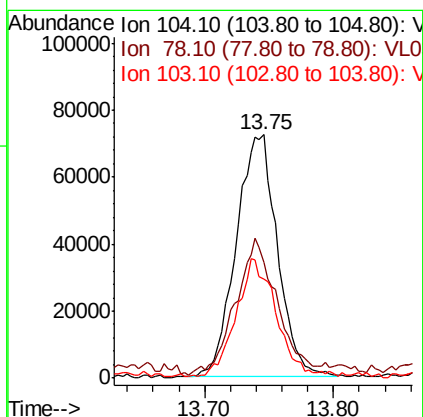
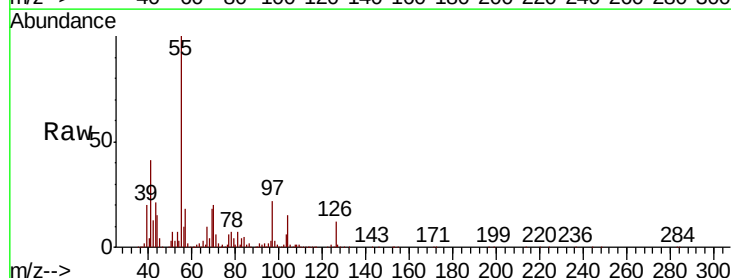
Tgt Ion: 104 Resp: 161320

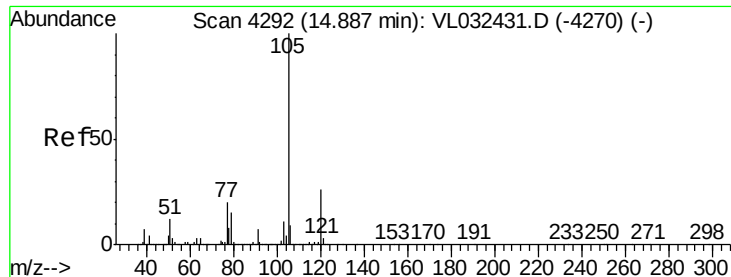
Ion Ratio Lower Upper

104 100

78 57.4 41.8 62.8

103 47.8 38.0 57.0





#62

Isopropylbenzene

Concen: 0.255 ppbv

RT: 14.88 min Scan# 4290

Delta R.T. -0.01 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

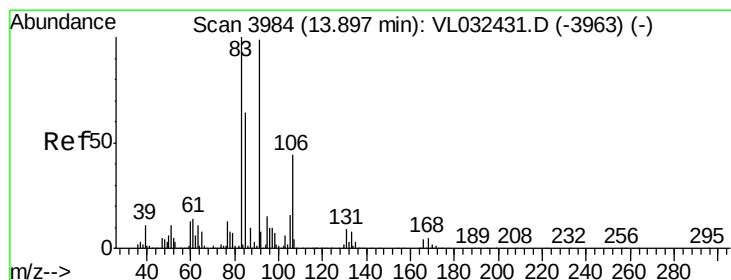
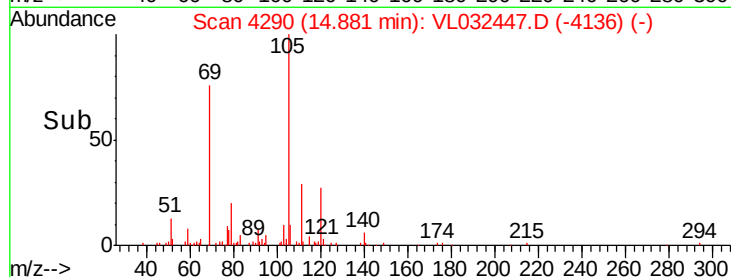
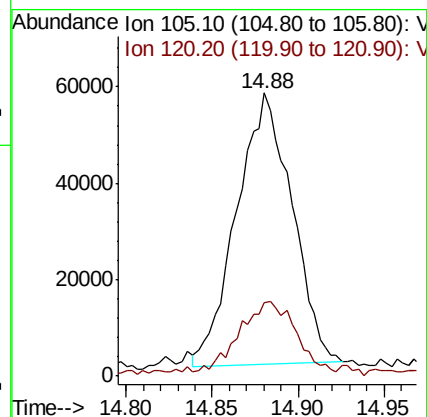
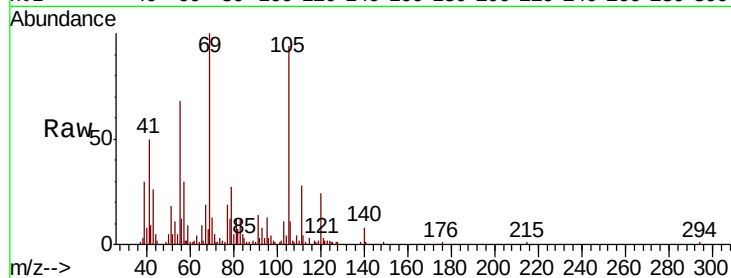
VP-04

Tgt Ion: 105 Resp: 125566

Ion Ratio Lower Upper

105 100

120 30.1 20.6 31.0



#63

1,1,2,2-Tetrachloroethane

Concen: 0.473 ppbv

RT: 13.90 min Scan# 3984

Delta R.T. 0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

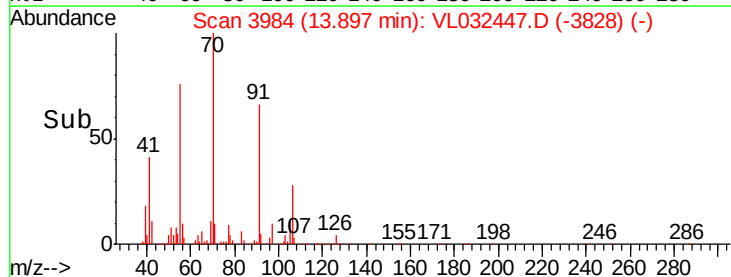
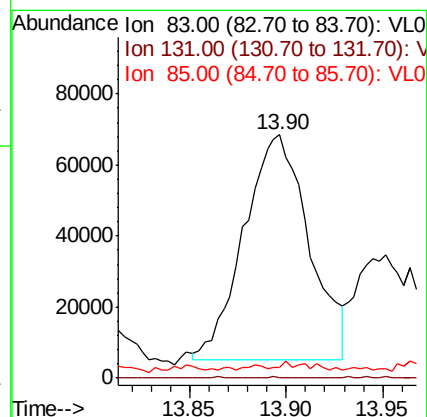
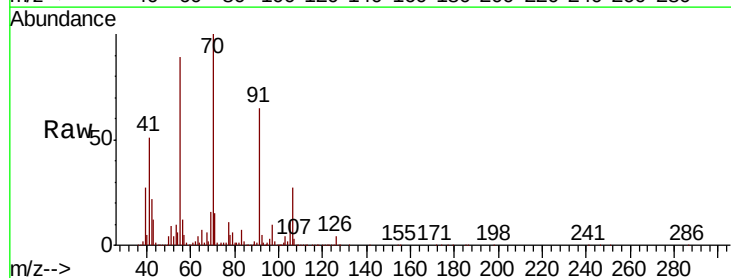
Tgt Ion: 83 Resp: 148202

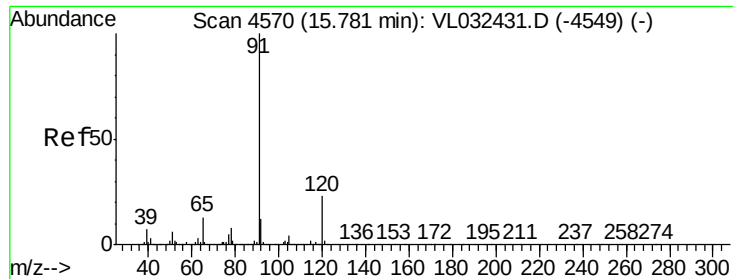
Ion Ratio Lower Upper

83 100

131 0.1 4.3 12.8#

85 0.0 32.3 96.8#





#64

n-propylbenzene

Concen: 1.526 ppbv

RT: 15.78 min Scan# 4570

Delta R.T. 0.00 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

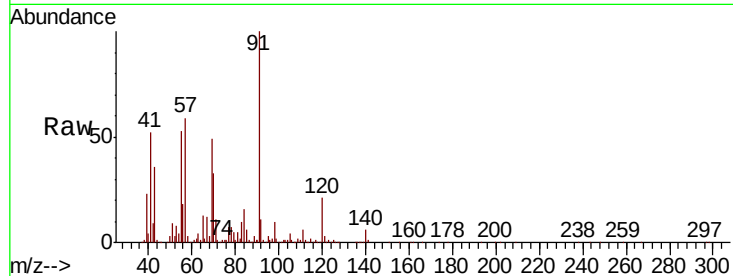
VP-04

Tgt Ion:120 Resp: 196323

Ion Ratio Lower Upper

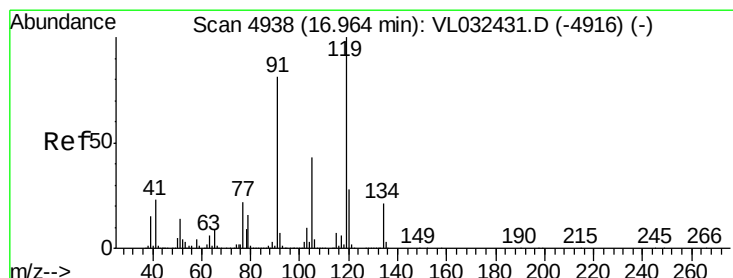
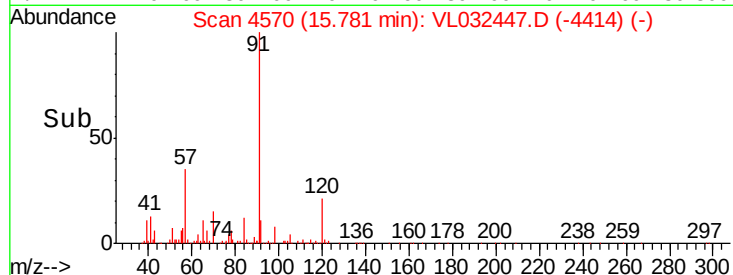
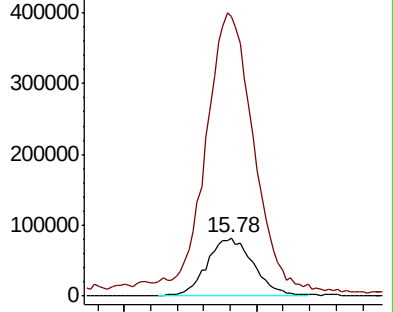
120 100

91 530.4 381.8 572.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.529 ppbv

RT: 16.99 min Scan# 4947

Delta R.T. 0.03 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

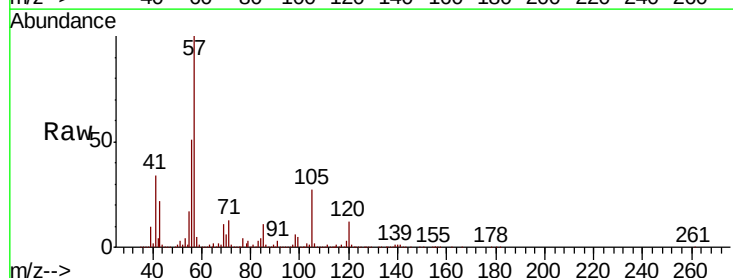
Tgt Ion:119 Resp: 224272

Ion Ratio Lower Upper

119 100

91 104.4 66.5 99.7#

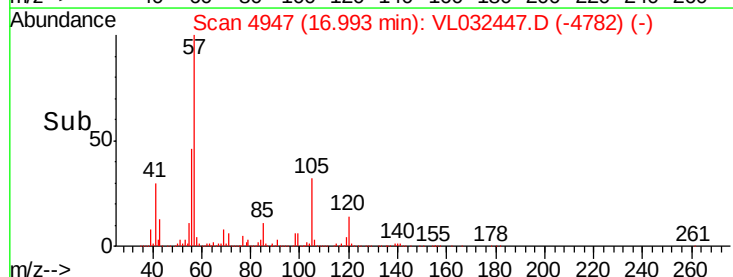
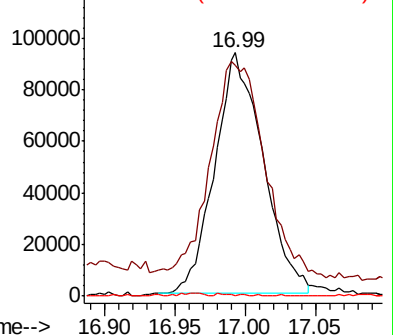
134 1.5 16.0 24.0#

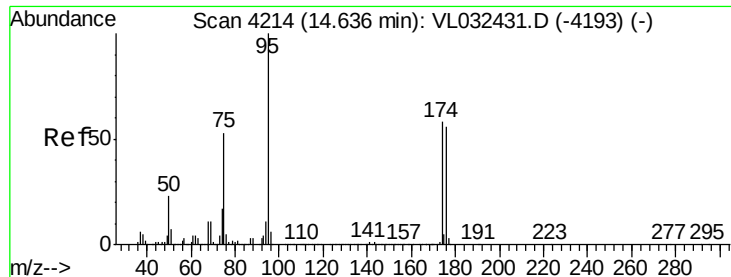


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

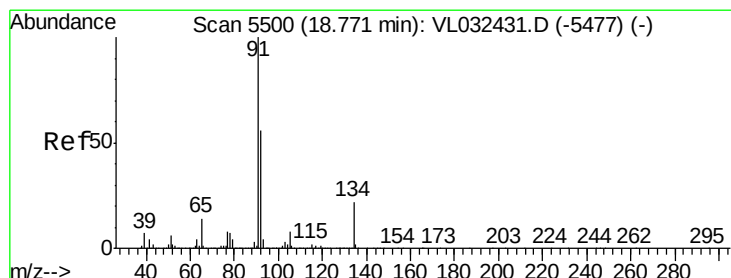
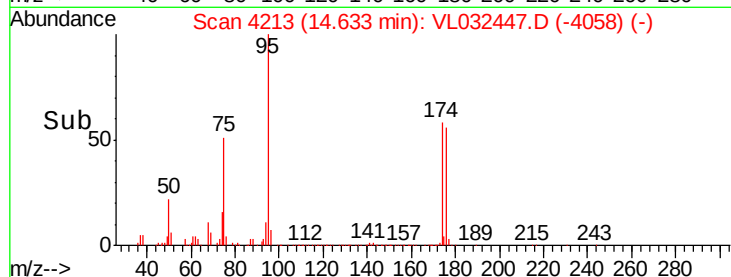
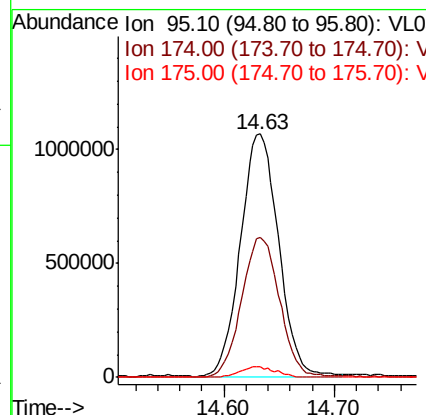
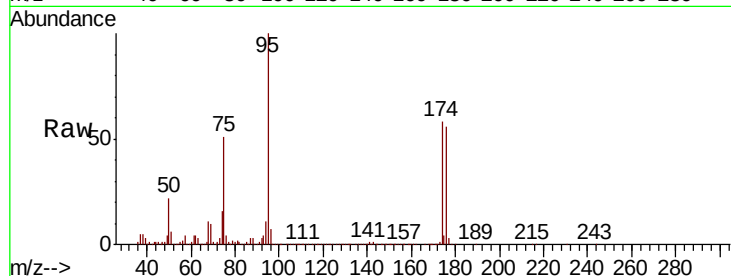




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.309 ppbv
 RT: 14.63 min Scan# 4213
 Delta R.T. -0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

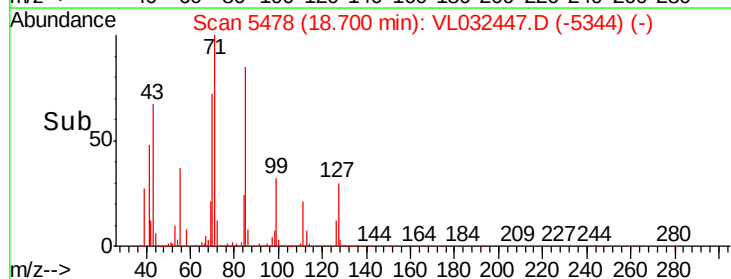
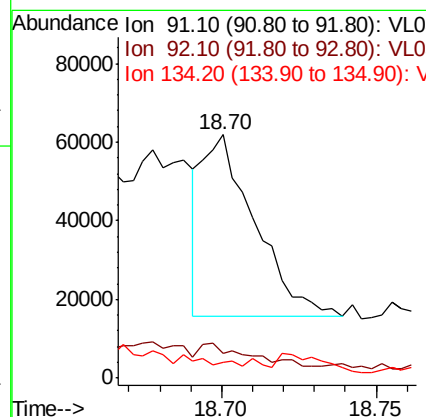
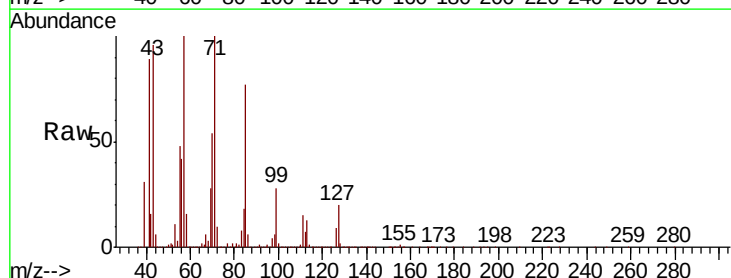
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04

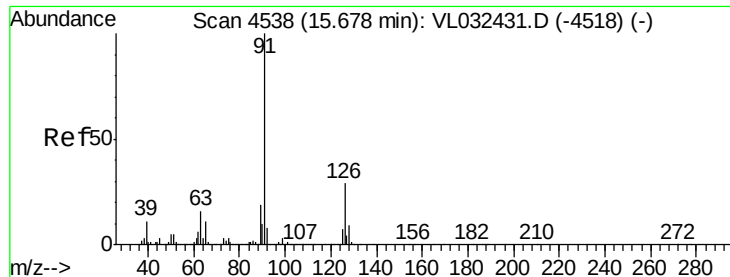
Tgt Ion: 95 Resp: 2557149
 Ion Ratio Lower Upper
 95 100
 174 58.2 46.3 69.5
 175 4.2 3.4 5.0



#70
 n-Butylbenzene
 Concen: 0.097 ppbv
 RT: 18.70 min Scan# 5478
 Delta R.T. -0.07 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Tgt Ion: 91 Resp: 54299
 Ion Ratio Lower Upper
 91 100
 92 0.0 43.8 65.8#
 134 19.8 17.4 26.0

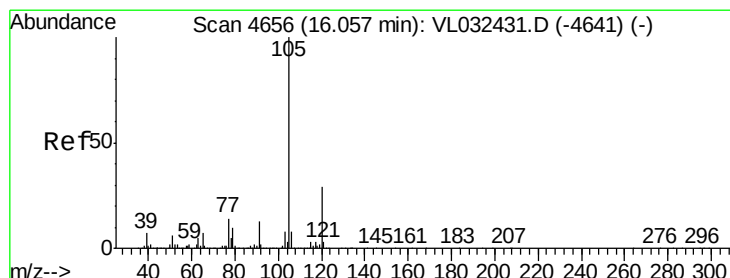
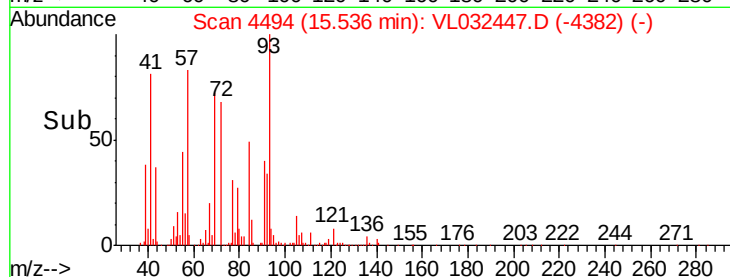
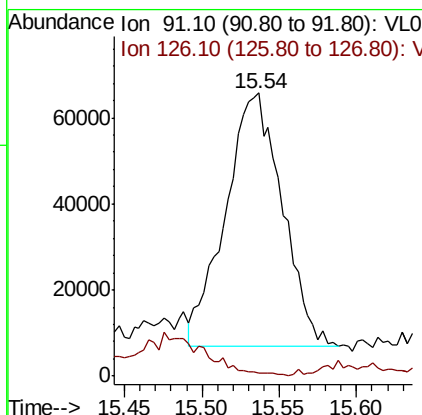
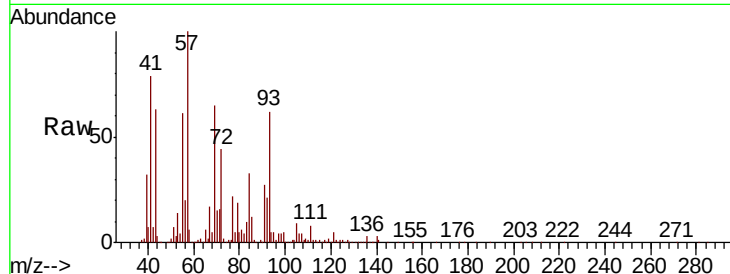




#71
 2-Chlorotoluene
 Concen: 0.397 ppbv
 RT: 15.54 min Scan# 4494
 Delta R.T. -0.14 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

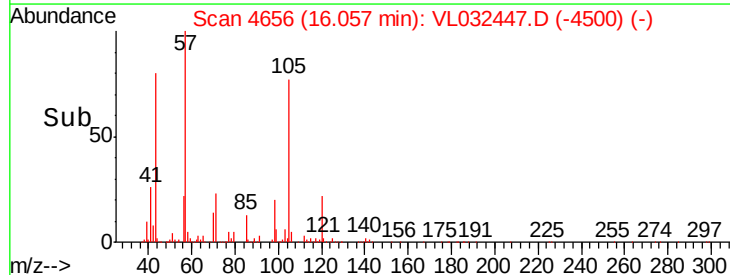
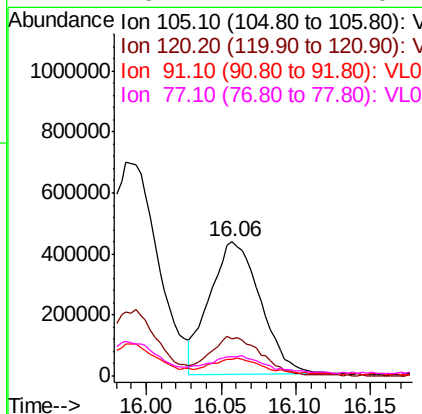
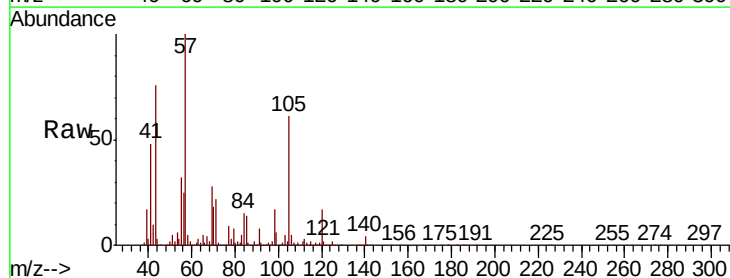
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04

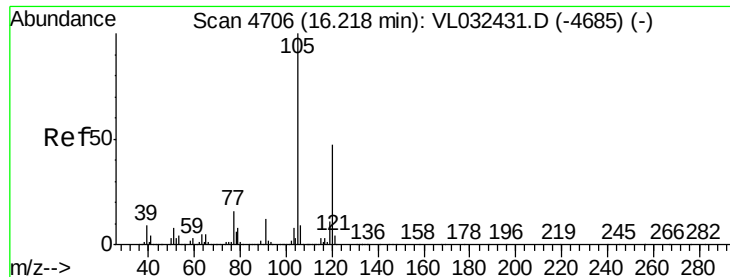
Tgt Ion: 91 Resp: 149387
 Ion Ratio Lower Upper
 91 100
 126 6.5 11.9 47.7#



#72
 4-Ethyltoluene
 Concen: 2.707 ppbv
 RT: 16.06 min Scan# 4656
 Delta R.T. 0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Tgt Ion: 105 Resp: 1034739
 Ion Ratio Lower Upper
 105 100
 120 31.1 23.5 35.3
 91 13.9 10.2 15.2
 77 15.1 11.1 16.7

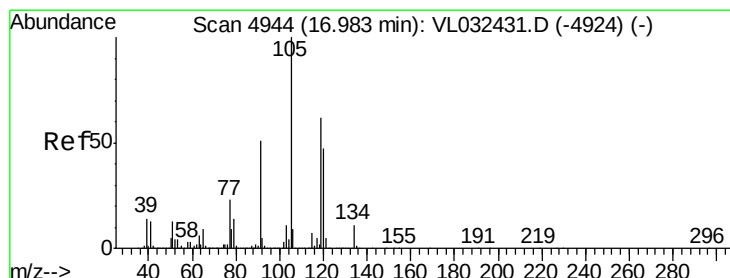
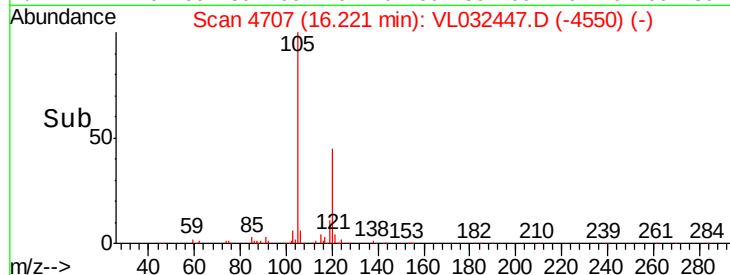
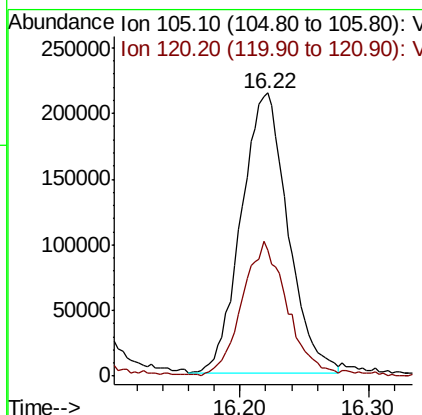
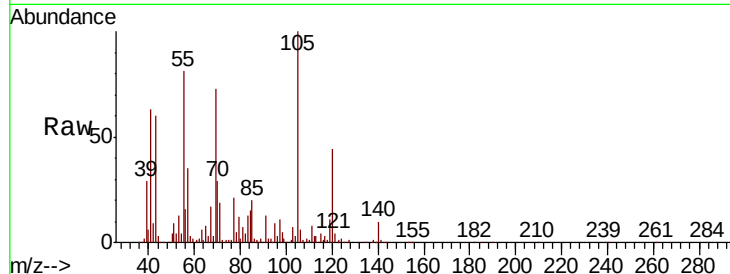




#73
 1,3,5-Trimethylbenzene
 Concen: 1.407 ppbv
 RT: 16.22 min Scan# 4707
 Delta R.T. 0.00 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

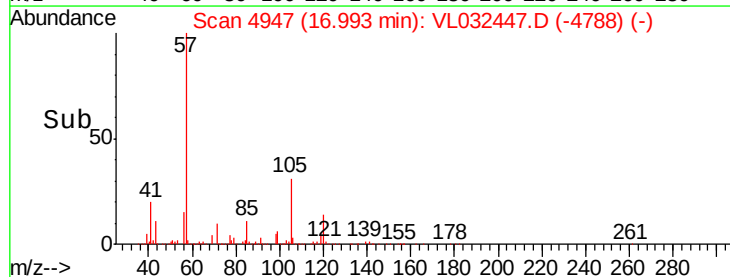
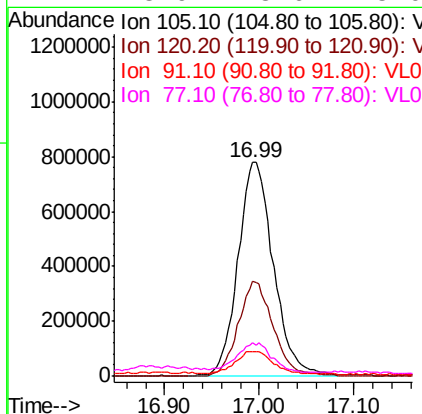
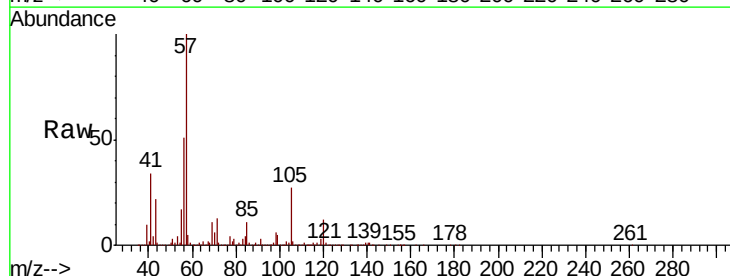
Instrument :
 MSVOA_L
 ClientSampled :
 VP-04

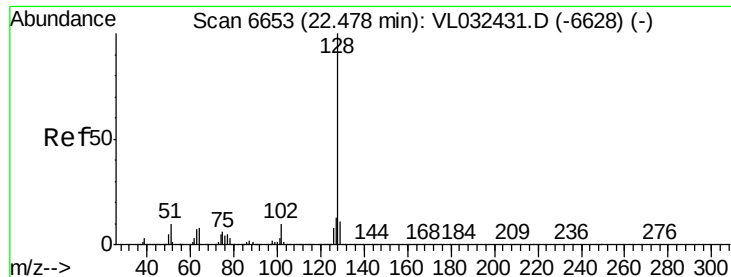
Tgt Ion:105 Resp: 538891
 Ion Ratio Lower Upper
 105 100
 120 44.2 37.9 56.9



#74
 1,2,4-Trimethylbenzene
 Concen: 4.815 ppbv
 RT: 16.99 min Scan# 4947
 Delta R.T. 0.01 min
 Lab File: VL032447.D
 Acq: 31 Aug 2018 19:06

Tgt Ion:105 Resp: 2016219
 Ion Ratio Lower Upper
 105 100
 120 44.2 37.8 56.8
 91 10.8 41.4 62.0#
 77 13.9 18.6 28.0#





#79

Naphthalene

Concen: 0.113 ppbv

RT: 22.49 min Scan# 6656

Delta R.T. 0.01 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Instrument :

MSVOA_L

ClientSampleId :

VP-04

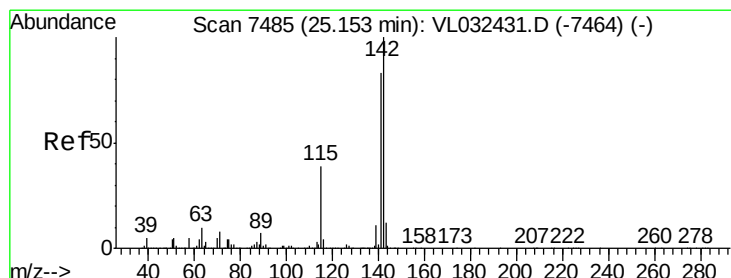
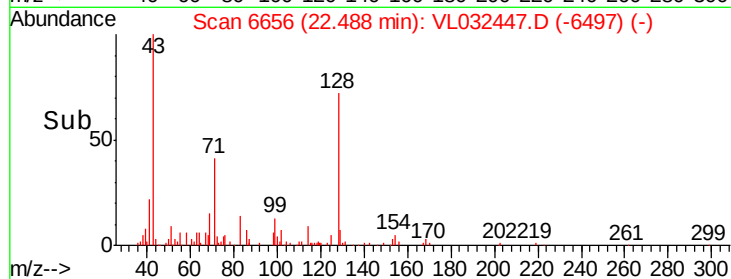
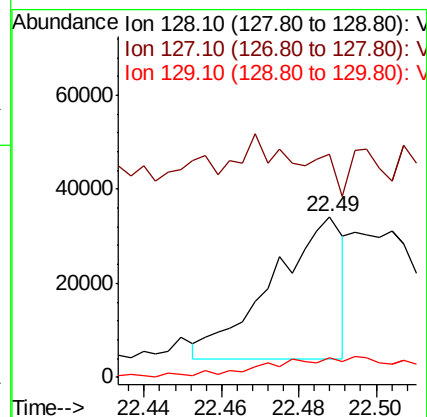
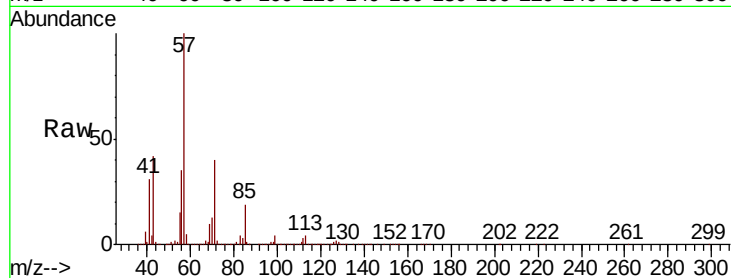
Tgt Ion:128 Resp: 38568

Ion Ratio Lower Upper

128 100

127 32.4 10.2 15.2#

129 13.8 8.5 12.7#



#80

Naphthalene, 2-methyl-

Concen: 0.047 ppbv

RT: 25.19 min Scan# 7496

Delta R.T. 0.04 min

Lab File: VL032447.D

Acq: 31 Aug 2018 19:06

Tgt Ion:142 Resp: 4262

Ion Ratio Lower Upper

142 100

141 307.9 67.0 100.6#

115 19.9 31.3 46.9#

