

Data File : VL033714.D
Acq On : 17 May 2019 13:23
Operator : SY/AP
Sample : K2904-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
S-01

Quant Time: May 17 23:21:32 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	1074975	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2767205	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2525515	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2065601	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.01	85	30649	0.135	ppbv	89
3) Chlorodifluoromethane	3.01	51	3223028	26.175	ppbv #	81
4) Chloromethane	3.17	50	26779	0.380	ppbv	90
7) Chloroethane	3.60	64	696	0.027	ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	3954	0.022	ppbv	98
9) Propene	3.24	41	239535	4.574	ppbv	97
10) Heptane	8.25	43	3998	0.027	ppbv #	26
11) Trichlorofluoromethane	4.00	101	19222284	88.902	ppbv #	74
12) 1,1,2-Trichlorotrifluoroet	4.55	101	15461	0.102	ppbv #	13
13) Ethanol	3.66	45	2581196	152.481	ppbv	99
15) Acetone	3.90	43	3780310	25.346	ppbv	95
16) 1,3-Butadiene	3.34	39	611356	10.293	ppbv #	11
17) tert-Butyl alcohol	4.37	59	418398	3.469	ppbv	99
19) Isopropyl Alcohol	4.03	45	1386267	14.415	ppbv #	99
20) Methylene Chloride	4.41	84	575822	10.027	ppbv	98
21) Allyl Chloride	4.41	41	19345	0.208	ppbv #	18
23) Vinyl Acetate	5.14	43	479710	2.439	ppbv #	4
25) Ethyl Acetate	5.78	43	567803	2.167	ppbv #	81
26) Hexane	5.78	57	751633	6.673	ppbv #	42
27) Carbon Disulfide	4.62	76	382725	2.477	ppbv	97
28) Methyl tert-Butyl Ether	5.12	73	8275	0.045	ppbv #	54
29) Chloroform	5.85	83	2235670	10.776	ppbv	98
30) Cyclohexane	7.25	84	4872	0.051	ppbv #	1
31) cis-1,2-Dichloroethene	5.64	61	221962	1.987	ppbv	91
32) 1,1,1-Trichloroethane	6.62	97	10450	0.050	ppbv #	59
34) 2-Butanone	5.33	43	247756	1.444	ppbv	98
35) Carbon Tetrachloride	7.14	117	15865	0.072	ppbv	96
36) Benzene	7.00	78	39549	0.157	ppbv #	90
37) 1,2-Dichloroethane	6.41	62	5601	0.034	ppbv	98
38) Trichloroethene	7.96	130	2519799	26.977	ppbv	96
39) 1,2-Dichloropropane	7.29	63	660688	7.040	ppbv #	23
41) Tetrahydrofuran	6.16	42	5438	0.057	ppbv #	56
42) Bromodichloromethane	7.92	83	59163	0.266	ppbv	100
43) Methyl Methacrylate	8.13	69	3065	0.033	ppbv #	38
44) 2,2,4-Trimethylpentane	7.98	57	18610	0.044	ppbv #	43
50) 4-Methyl-2-Pentanone	8.88	43	6033	0.023	ppbv #	39
51) 2-Hexanone	10.28	43	3979	0.019	ppbv #	1
52) Tetrachloroethene	11.37	164	1519203	17.169	ppbv	97
53) Toluene	9.94	91	345869	1.274	ppbv	100
59) m/p-Xylene	13.15	91	11026	0.038	ppbv #	31
60) o-Xylene	13.84	91	10730	0.036	ppbv #	32

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL051719\
Quantitation Report (Not Reviewed)

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Instrument :
MSVOA_L
ClientSampleId :
S-01

Quant Time: May 17 23:21:32 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)
61) Styrene	13.68	104	21201	0.107	ppbv	94
62) Isopropylbenzene	14.81	105	11551	0.029	ppbv #	50
64) n-propylbenzene	15.93	120	1488	0.014	ppbv	87
69) p-Isopropyltoluene	17.82	119	11634	0.028	ppbv #	1
72) 4-Ethyltoluene	15.99	105	10588	0.031	ppbv #	9
73) 1,3,5-Trimethylbenzene	16.15	105	6725	0.020	ppbv	89
74) 1,2,4-Trimethylbenzene	16.92	105	19448	0.054	ppbv #	76
76) 1,4-Dichlorobenzene	17.30	146	7287	0.035	ppbv #	22
79) Naphthalene	22.41	128	6517	0.020	ppbv #	87
80) Naphthalene,2-methyl-	25.11	142	12519	0.099	ppbv	98

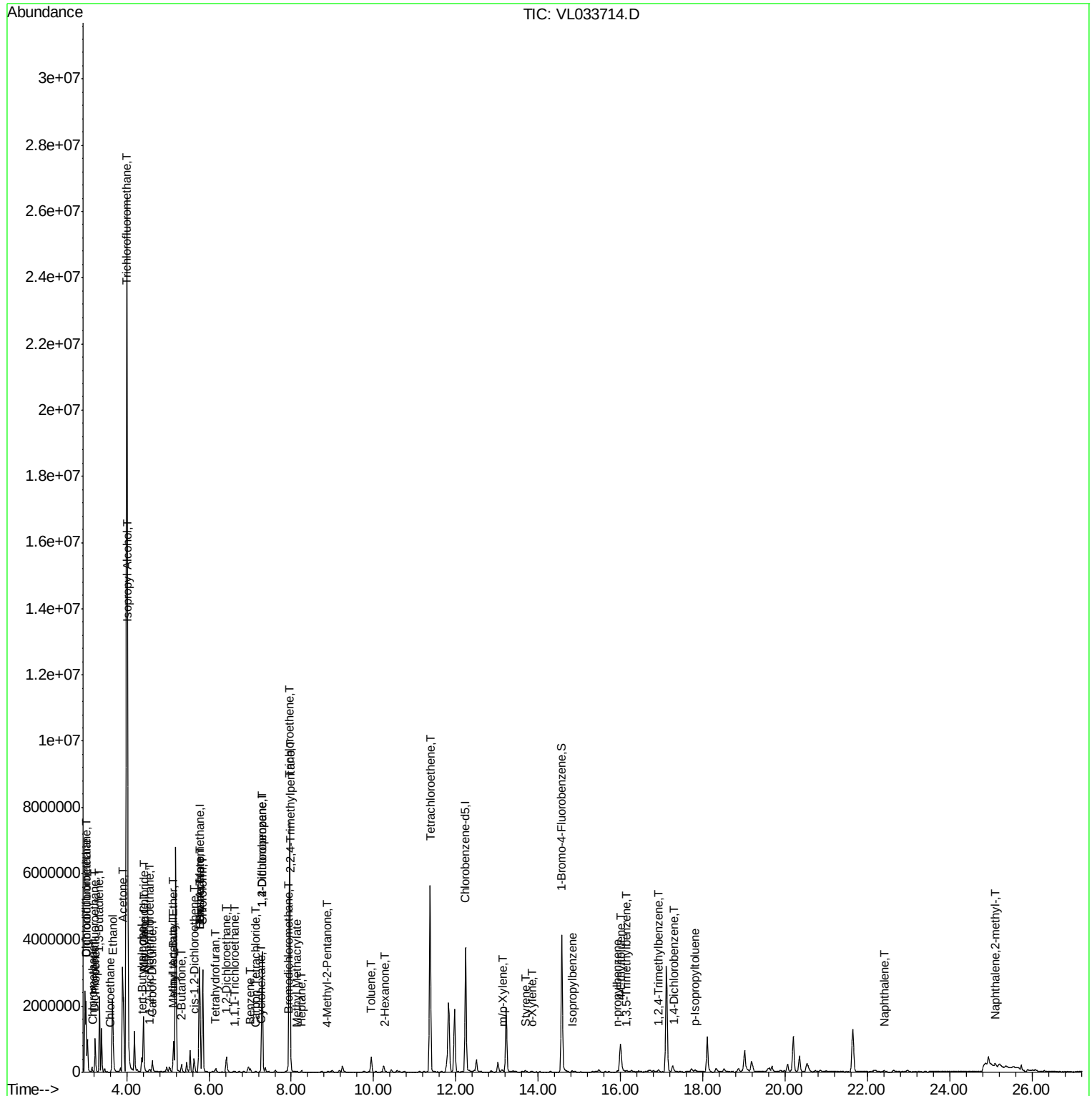
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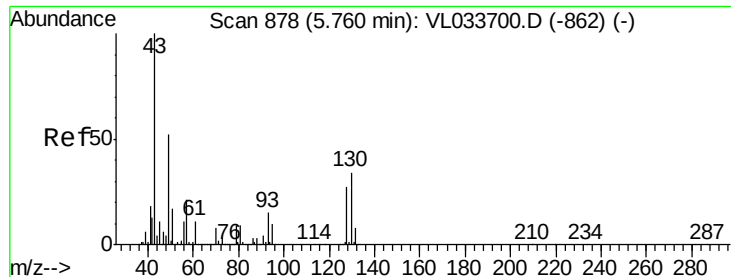
Data File : VL033714.D

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Acq On       : 17 May 2019  13:23
Operator     : SY/AP
Sample       : K2904-01
Misc         : 400ml/MSVOA_L
ALS Vial     : 1      Sample Multipl
```

Instrument :
MSVOA_L
ClientSampleId :
S-01

Quant Time: May 17 23:21:32 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

S-01

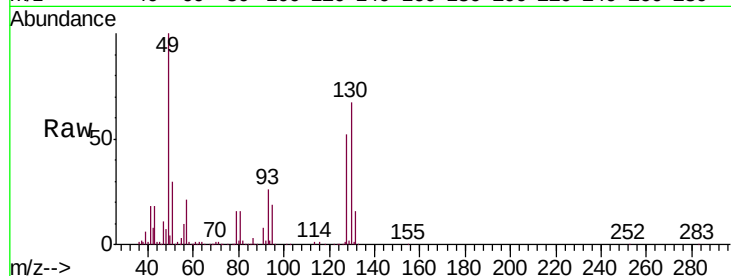
Tgt Ion: 49 Resp: 1074975

Ion Ratio Lower Upper

49 100

128 52.4 25.2 75.6

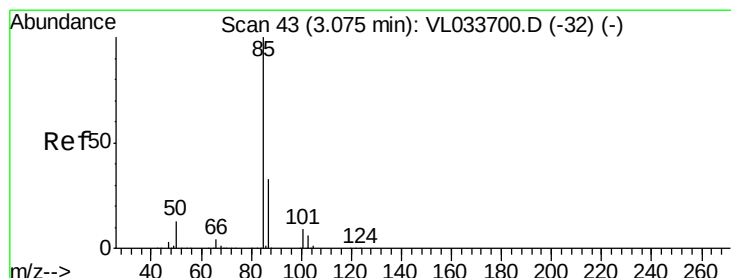
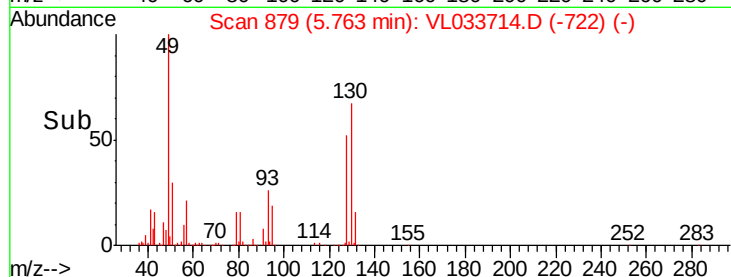
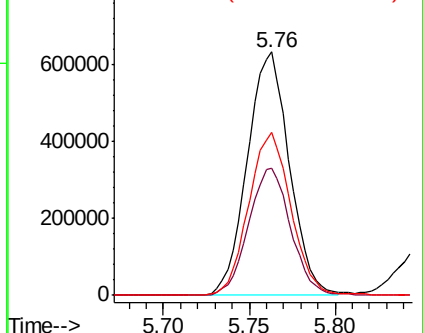
130 67.3 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.135 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.06 min

Lab File: VL033714.D

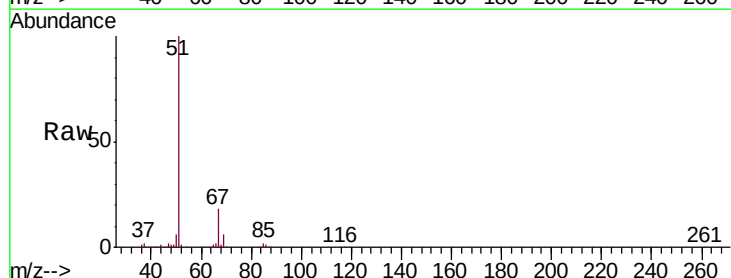
Acq: 17 May 2019 13:23

Tgt Ion: 85 Resp: 30649

Ion Ratio Lower Upper

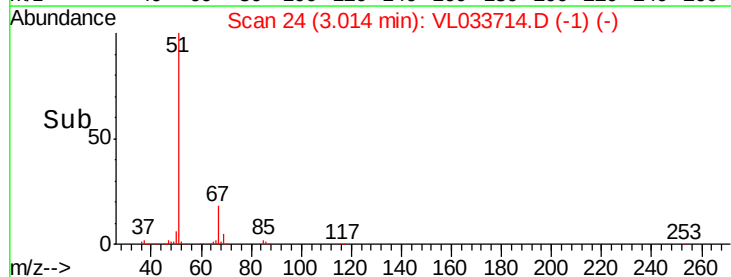
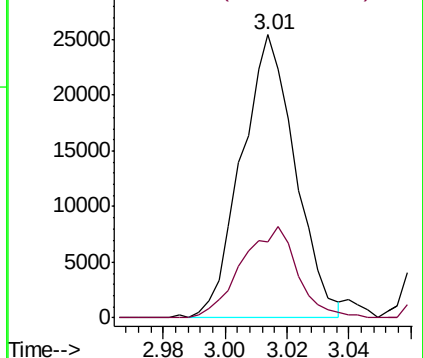
85 100

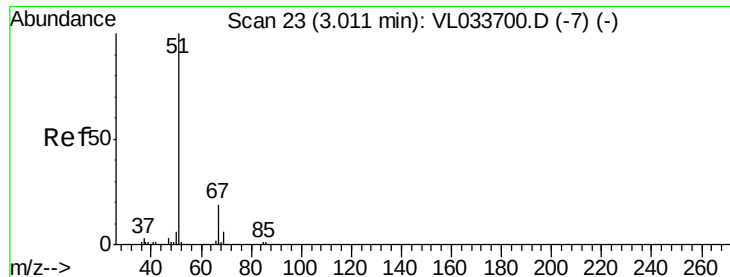
87 26.8 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 26.175 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

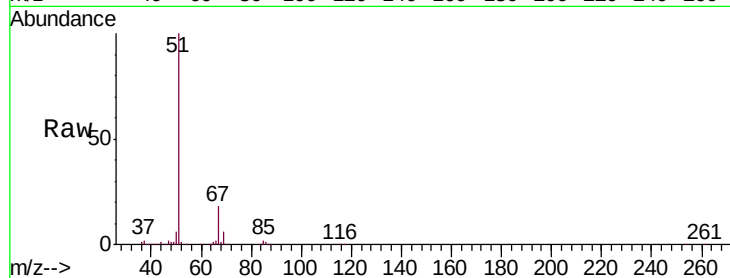
S-01

Tgt Ion: 51 Resp: 3223028

Ion Ratio Lower Upper

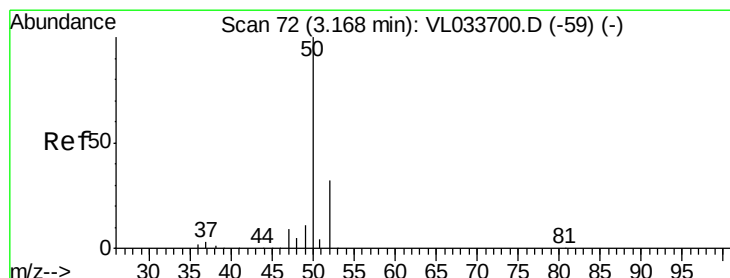
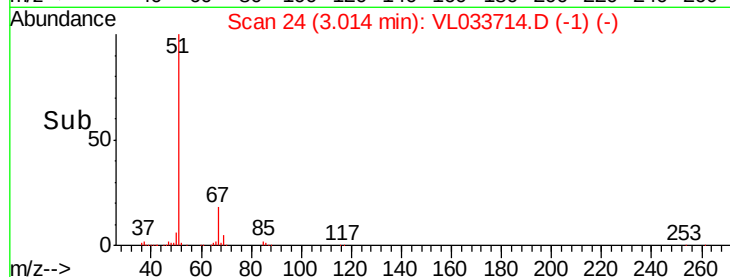
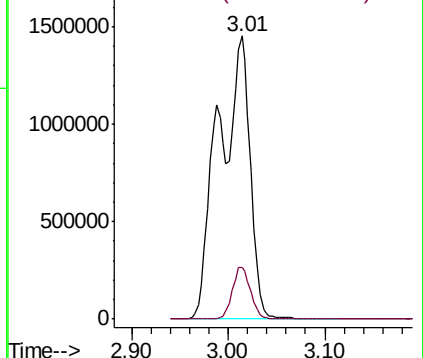
51 100

67 10.8 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: 0.380 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL033714.D

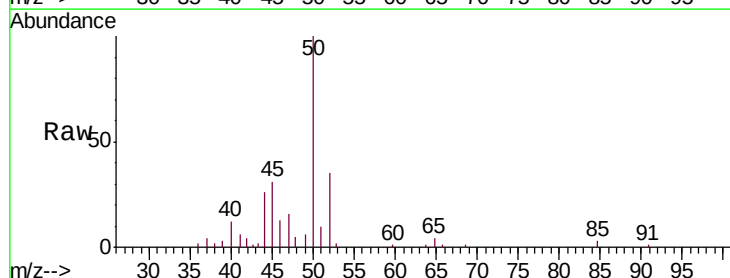
Acq: 17 May 2019 13:23

Tgt Ion: 50 Resp: 26779

Ion Ratio Lower Upper

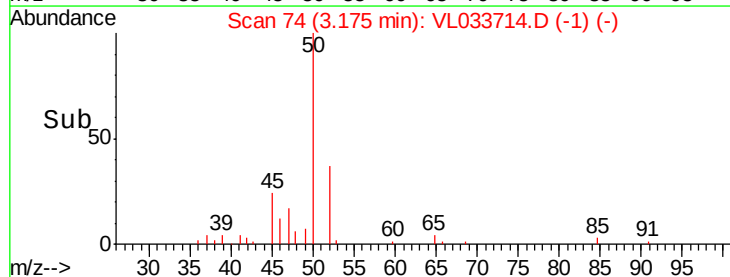
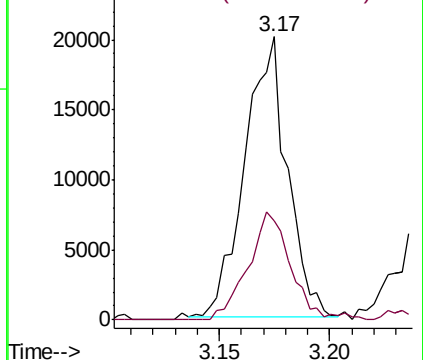
50 100

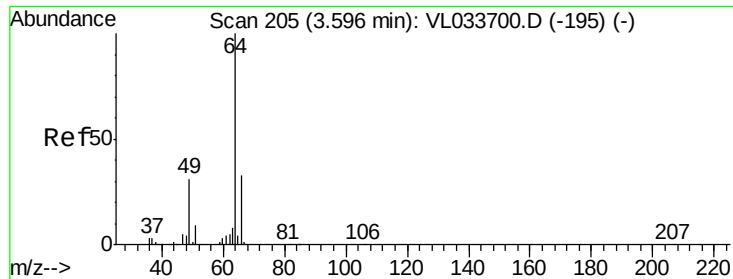
52 37.8 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.027 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

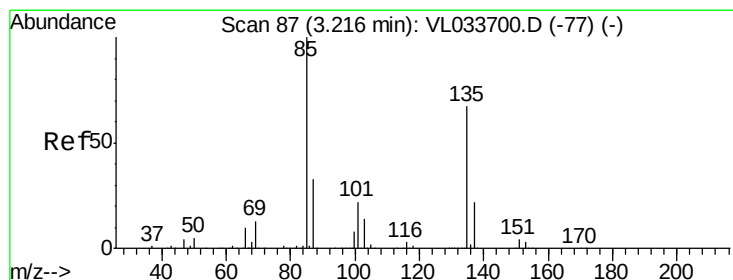
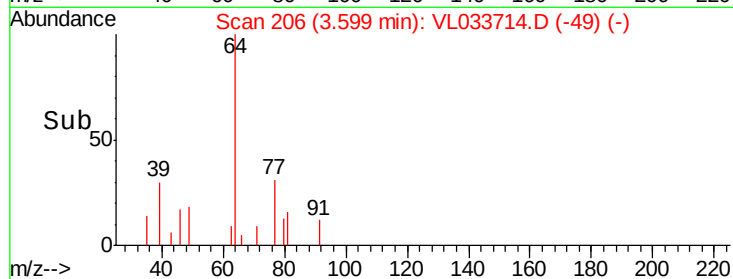
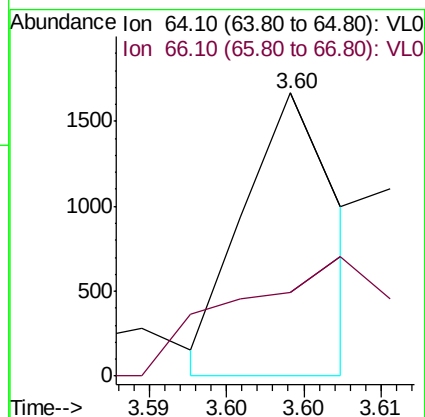
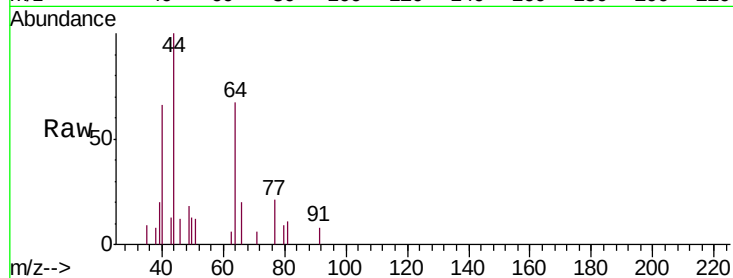
S-01

Tgt Ion: 64 Resp: 696

Ion Ratio Lower Upper

64 100

66 29.6 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 0.022 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033714.D

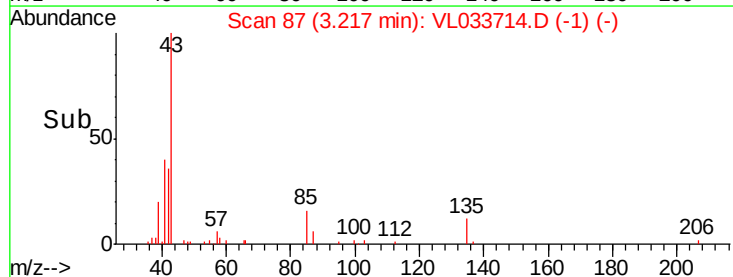
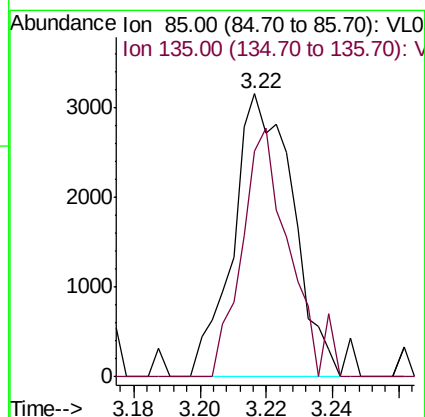
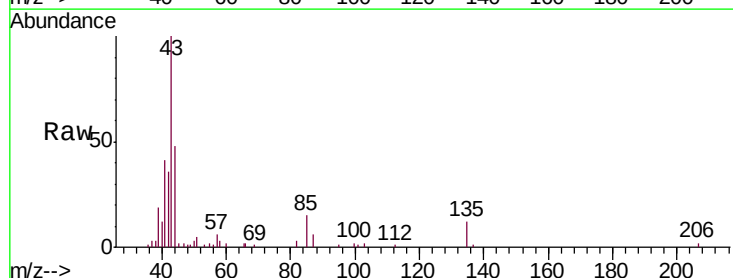
Acq: 17 May 2019 13:23

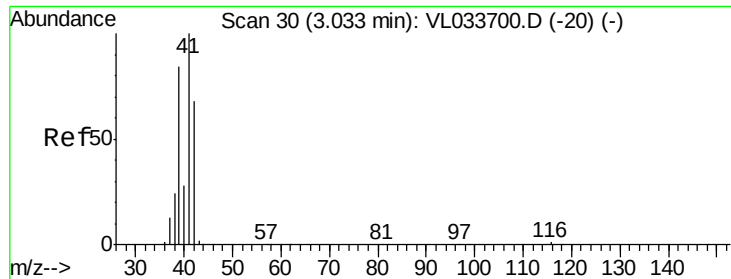
Tgt Ion: 85 Resp: 3954

Ion Ratio Lower Upper

85 100

135 69.6 54.5 81.7





#9

Propene

Concen: 4.574 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

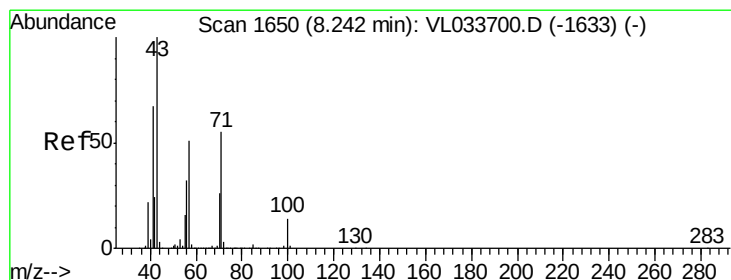
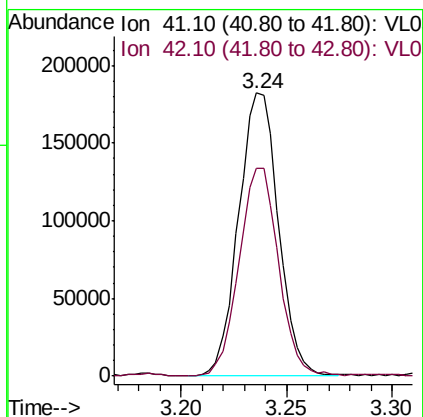
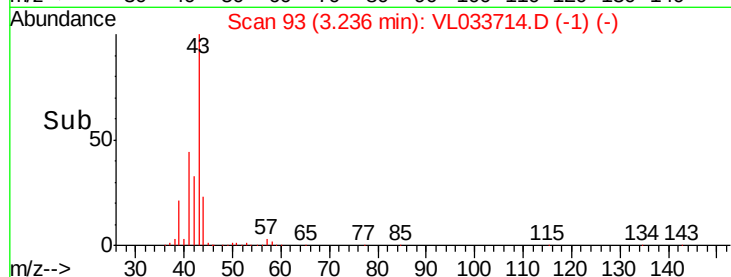
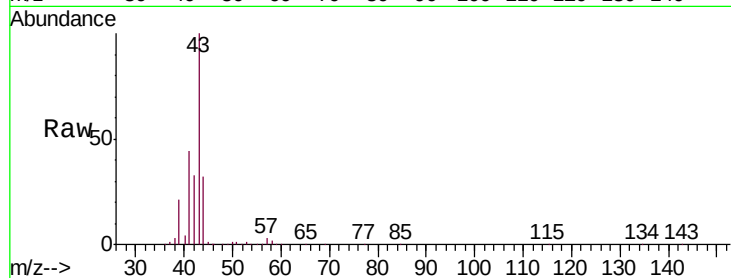
S-01

Tgt Ion: 41 Resp: 239535

Ion Ratio Lower Upper

41 100

42 72.6 56.1 84.1



#10

Heptane

Concen: 0.027 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033714.D

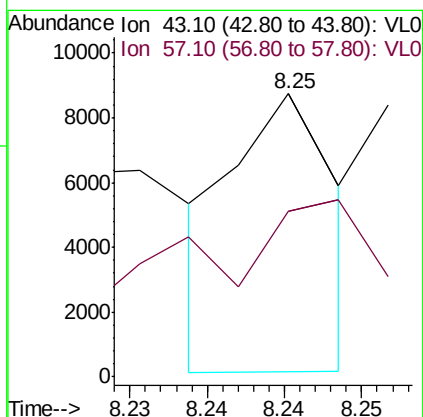
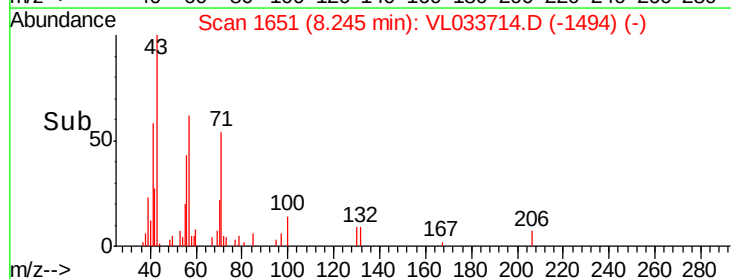
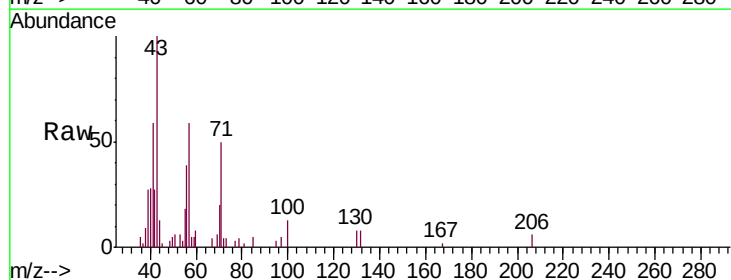
Acq: 17 May 2019 13:23

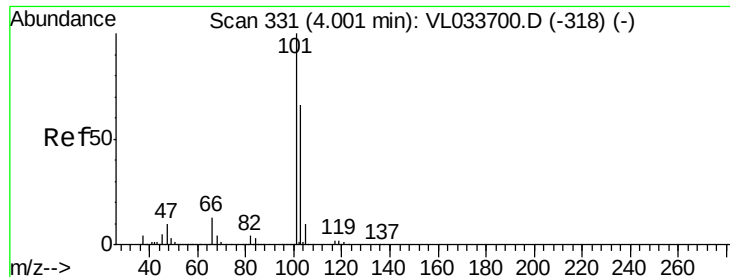
Tgt Ion: 43 Resp: 3998

Ion Ratio Lower Upper

43 100

57 0.0 41.4 62.0#





#11

Trichlorofluoromethane

Concen: 88.902 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

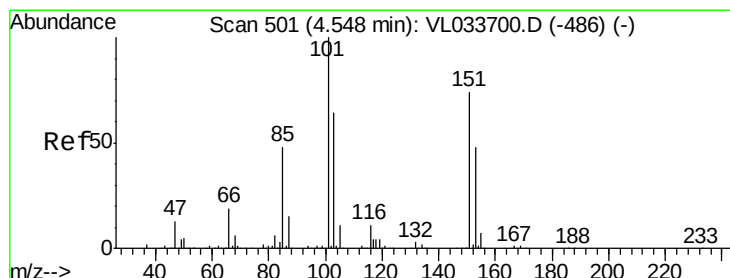
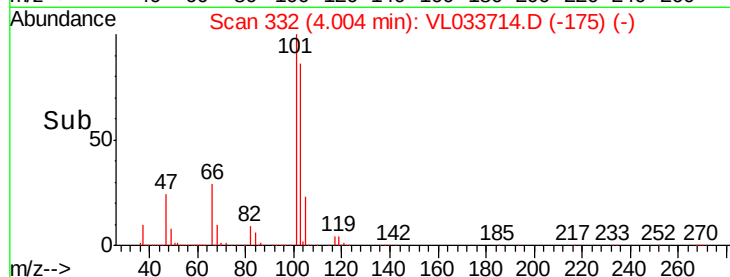
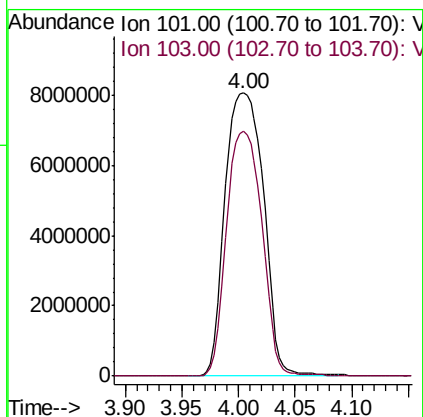
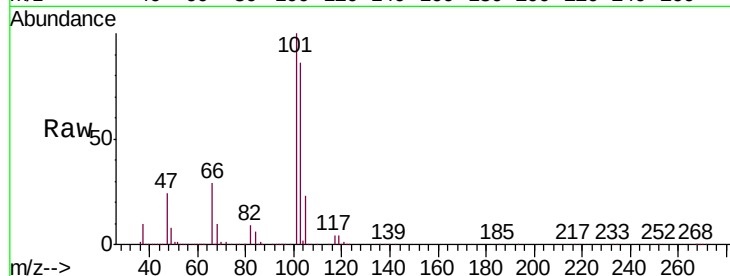
S-01

Tgt Ion:101 Resp:19222284

Ion Ratio Lower Upper

101 100

103 86.4 52.6 78.8#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.102 ppbv

RT: 4.55 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL033714.D

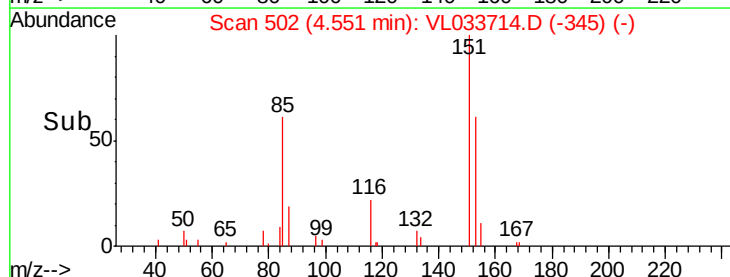
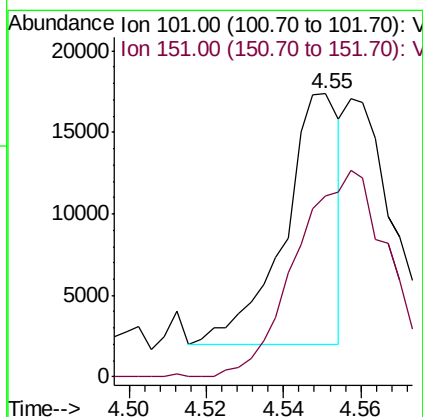
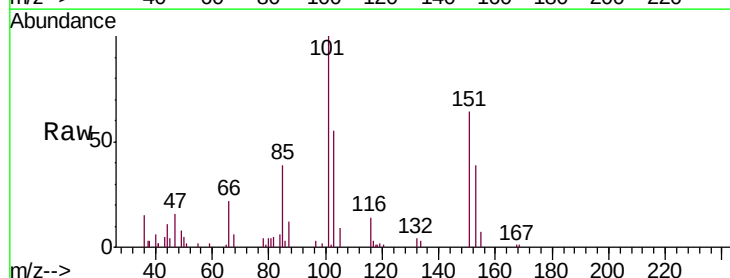
Acq: 17 May 2019 13:23

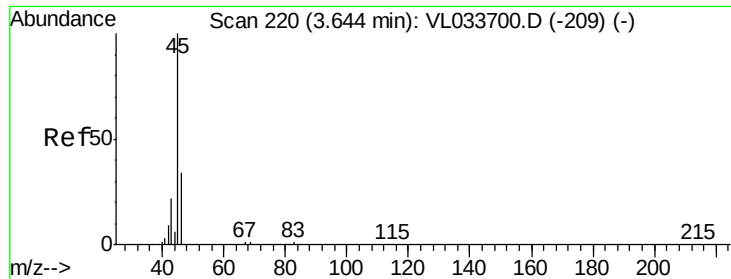
Tgt Ion:101 Resp: 15461

Ion Ratio Lower Upper

101 100

151 0.0 58.2 87.4#





#13

Ethanol

Concen: 152.481 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

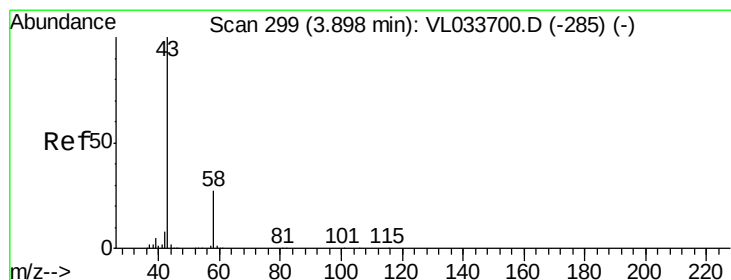
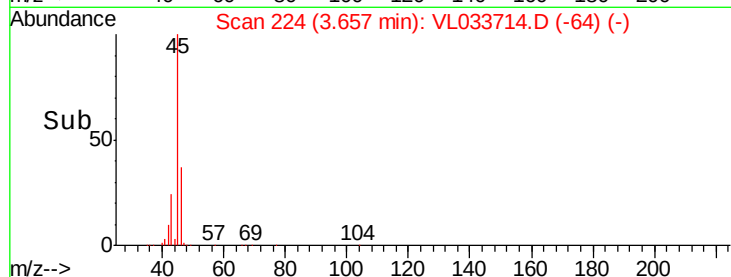
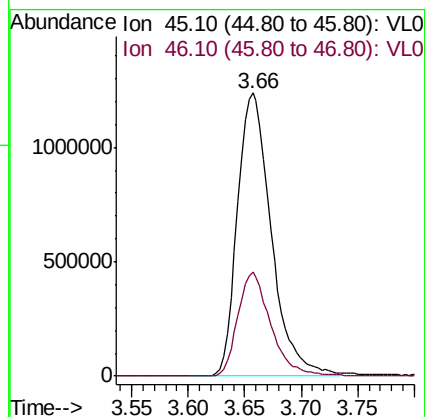
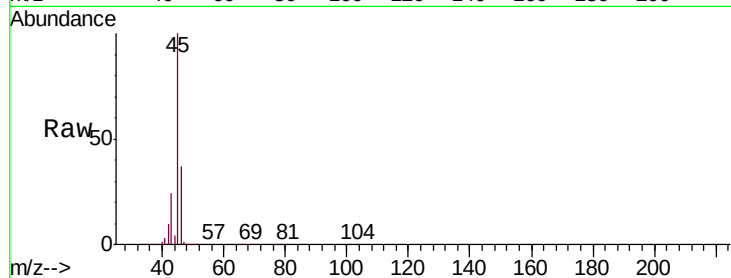
S-01

Tgt Ion: 45 Resp: 2581196

Ion Ratio Lower Upper

45 100

46 36.3 14.8 59.0



#15

Acetone

Concen: 25.346 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033714.D

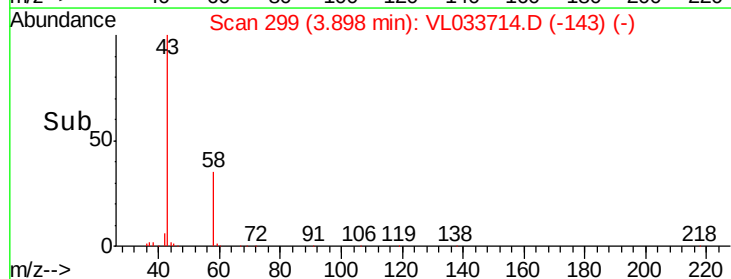
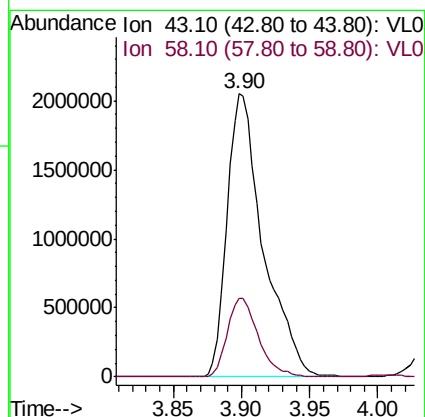
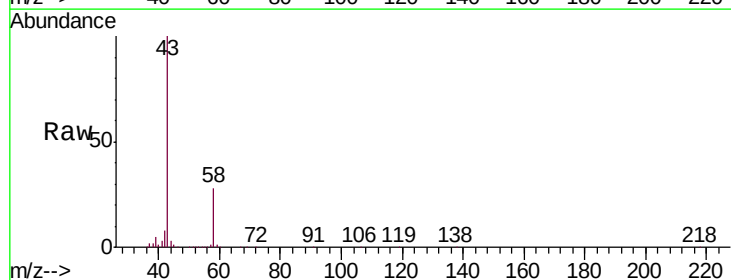
Acq: 17 May 2019 13:23

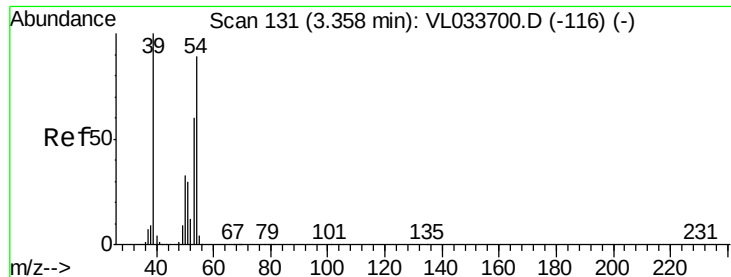
Tgt Ion: 43 Resp: 3780310

Ion Ratio Lower Upper

43 100

58 24.1 21.3 31.9

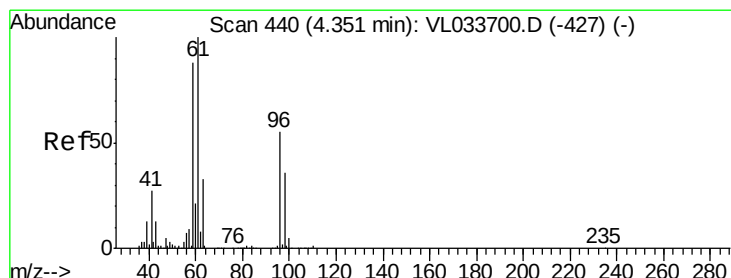
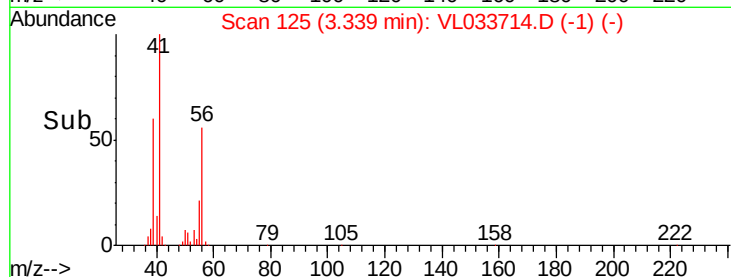
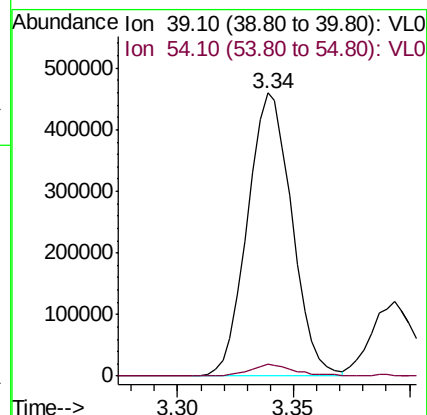
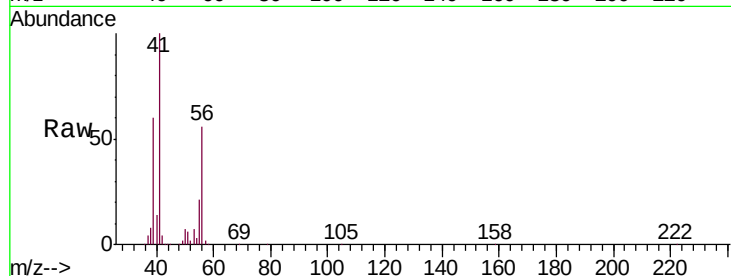




#16
 1,3-Butadiene
 Concen: 10.293 ppbv
 RT: 3.34 min Scan# 125
 Delta R.T. -0.02 min
 Lab File: VL033714.D
 Acq: 17 May 2019 13:23

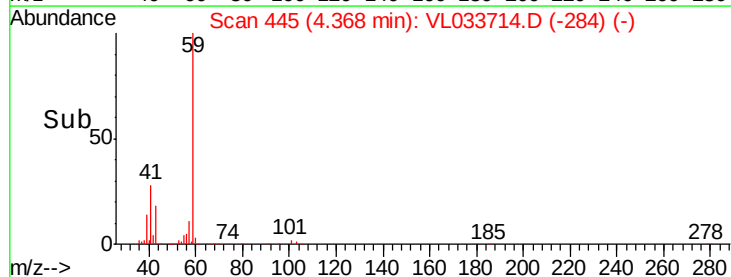
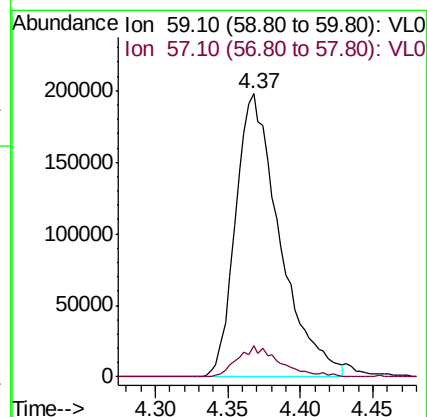
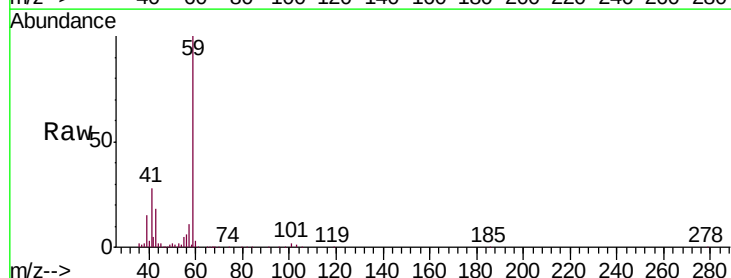
Instrument :
 MSVOA_L
 ClientSampleId :
 S-01

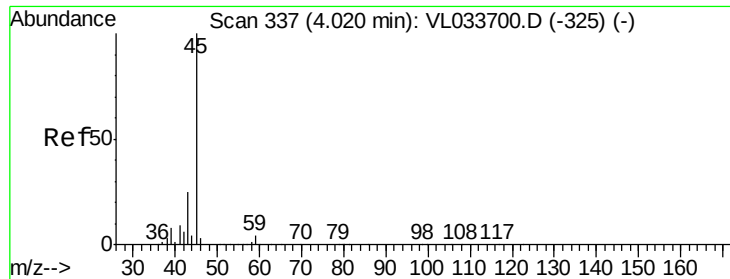
Tgt Ion: 39 Resp: 611356
 Ion Ratio Lower Upper
 39 100
 54 4.3 69.0 103.6#



#17
 tert-Butyl alcohol
 Concen: 3.469 ppbv
 RT: 4.37 min Scan# 445
 Delta R.T. 0.02 min
 Lab File: VL033714.D
 Acq: 17 May 2019 13:23

Tgt Ion: 59 Resp: 418398
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.4 12.6





#19

Isopropyl Alcohol

Concen: 14.415 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

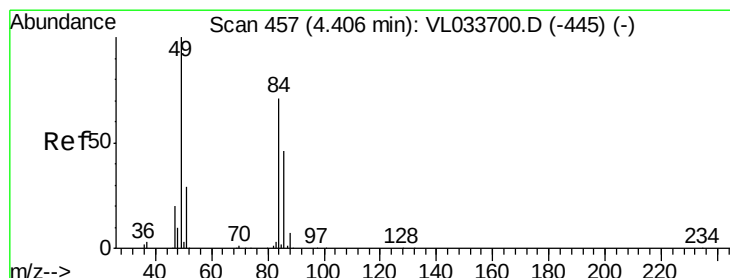
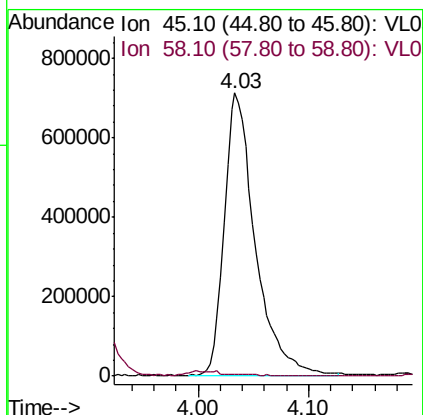
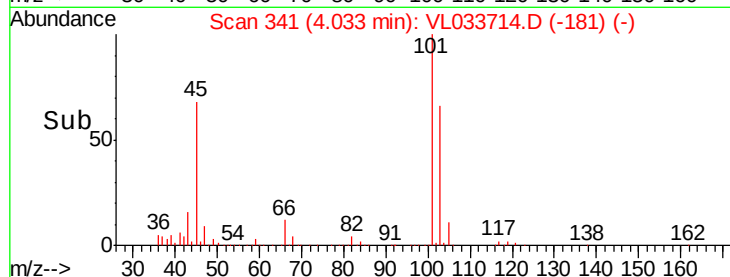
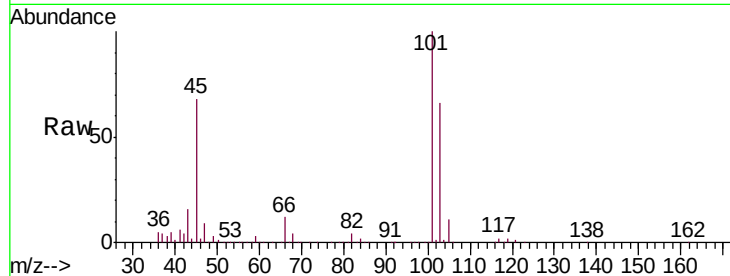
S-01

Tgt Ion: 45 Resp: 1386267

Ion Ratio Lower Upper

45 100

58 2.5 1.6 2.4#



#20

Methylene Chloride

Concen: 10.027 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Tgt Ion: 84 Resp: 575822

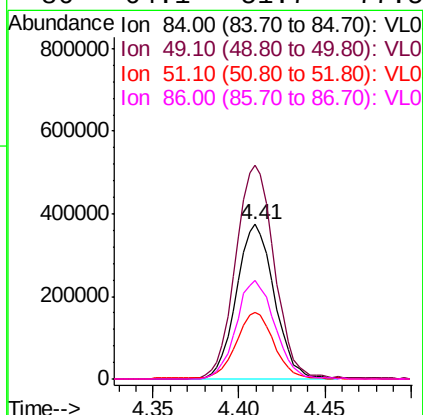
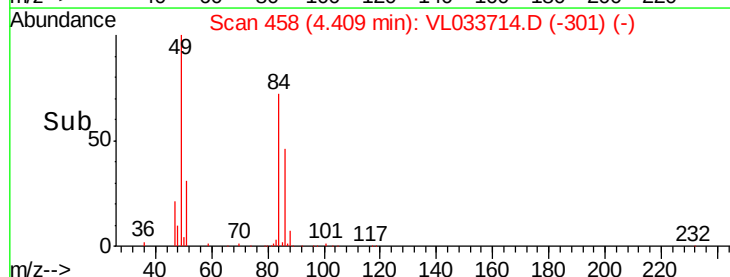
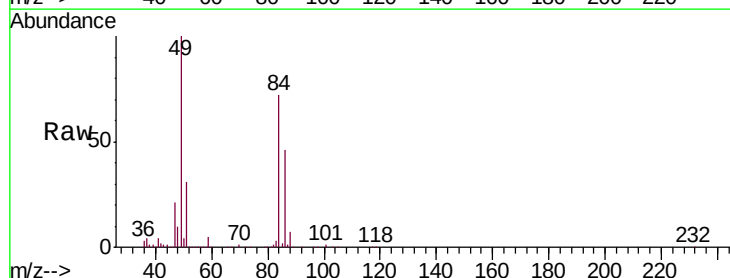
Ion Ratio Lower Upper

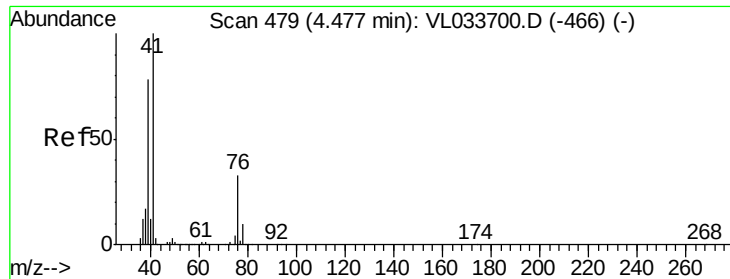
84 100

49 138.1 112.8 169.2

51 42.5 33.4 50.0

86 64.1 51.7 77.5





#21

Allyl Chloride

Concen: 0.208 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.07 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampled :

S-01

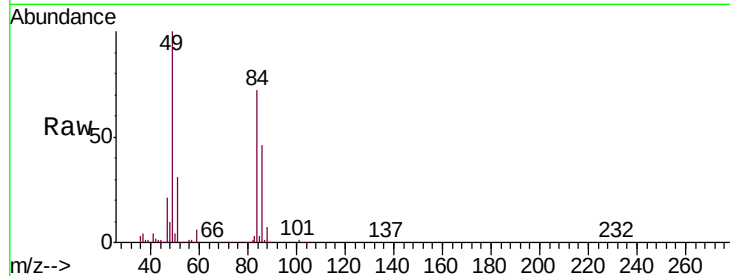
Tgt Ion: 41 Resp: 19345

Ion Ratio Lower Upper

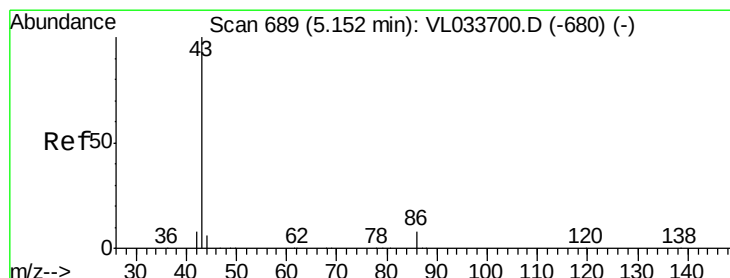
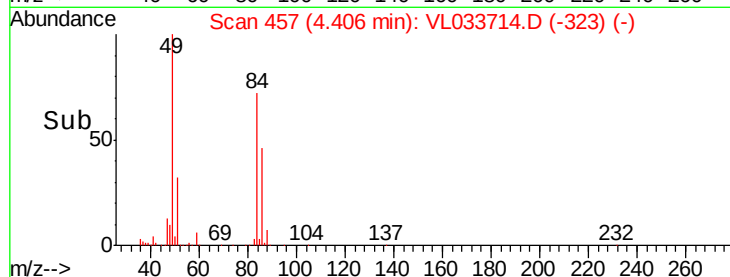
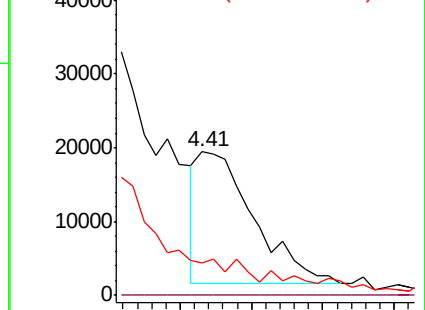
41 100

76 0.0 25.9 38.9#

39 0.0 64.6 97.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 2.439 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.01 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Tgt Ion: 43 Resp: 479710

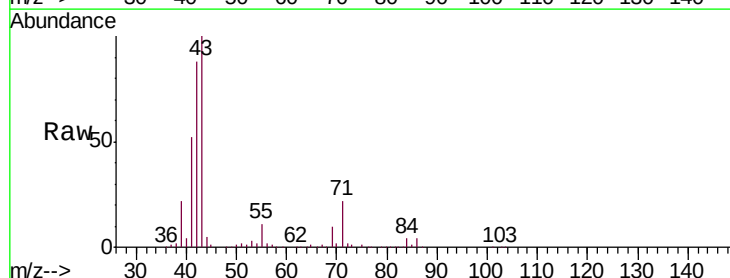
Ion Ratio Lower Upper

43 100

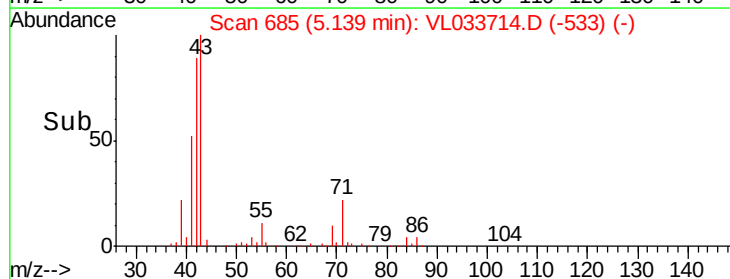
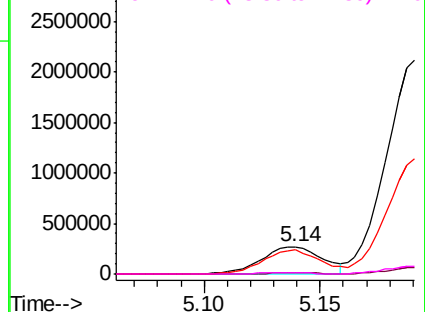
86 3.8 6.0 9.0#

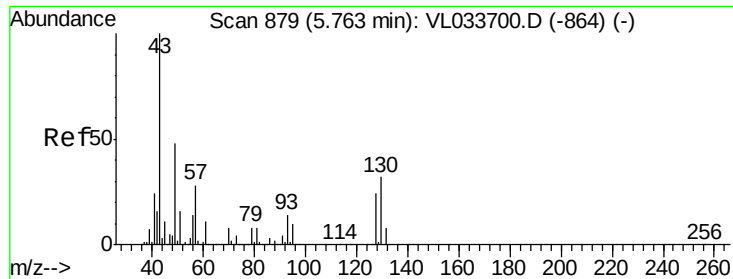
42 88.4 7.5 11.3#

44 3.9 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

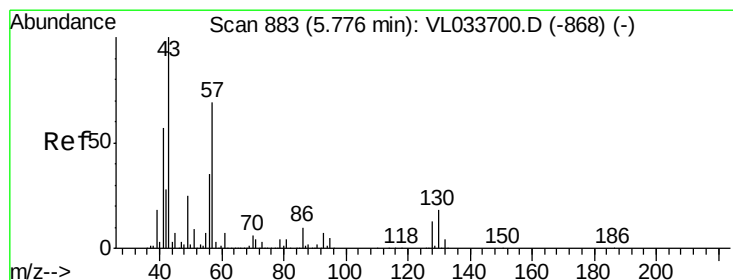
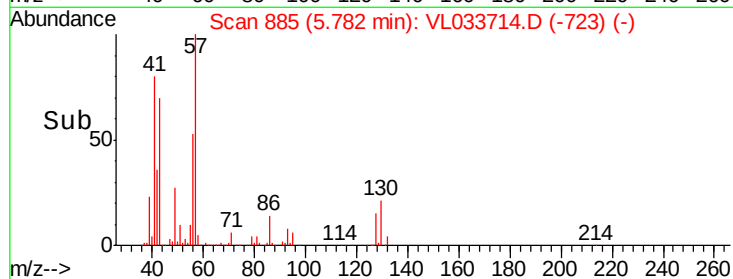
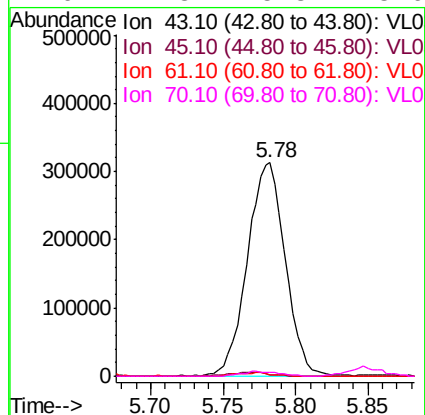
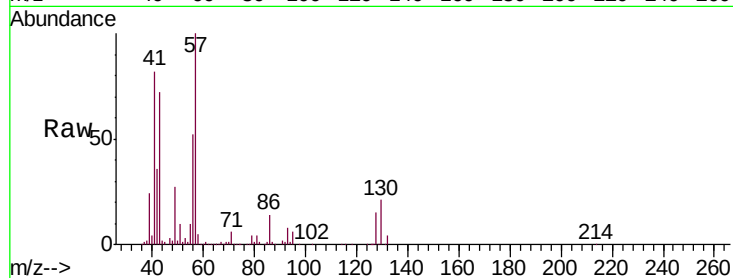




#25
Ethyl Acetate
Concen: 2.167 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.02 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

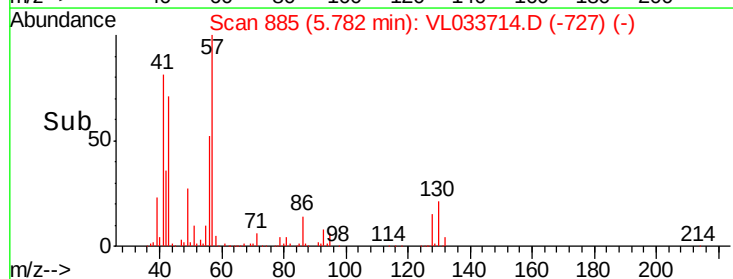
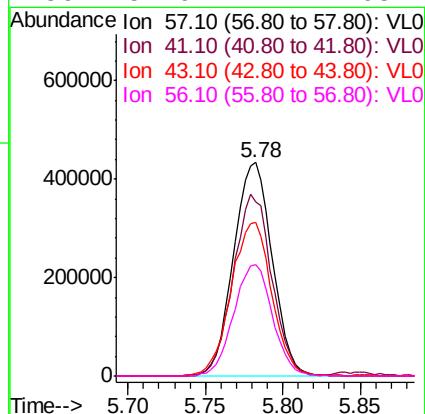
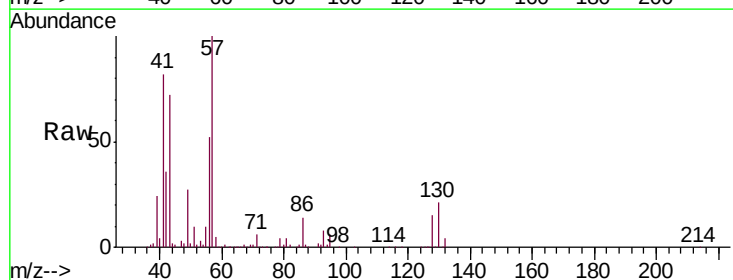
Instrument :
MSVOA_L
ClientSampleId :
S-01

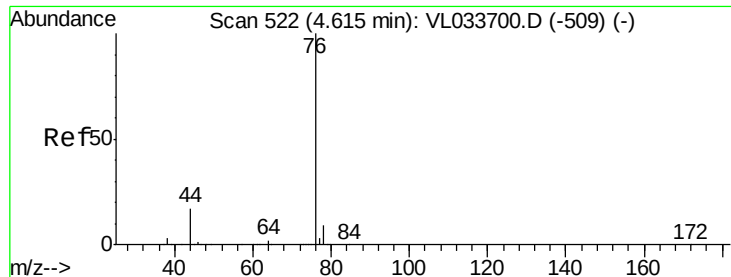
Tgt Ion:	43	Resp:	567803
Ion	Ratio	Lower	Upper
43	100		
45	2.0	7.9	11.9#
61	1.7	7.7	11.5#
70	2.3	5.8	8.6#



#26
Hexane
Concen: 6.673 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

Tgt Ion:	57	Resp:	751633
Ion	Ratio	Lower	Upper
57	100		
41	84.9	69.8	104.6
43	76.0	181.8	272.6#
56	52.6	42.1	63.1





#27

Carbon Disulfide

Concen: 2.477 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.01 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

S-01

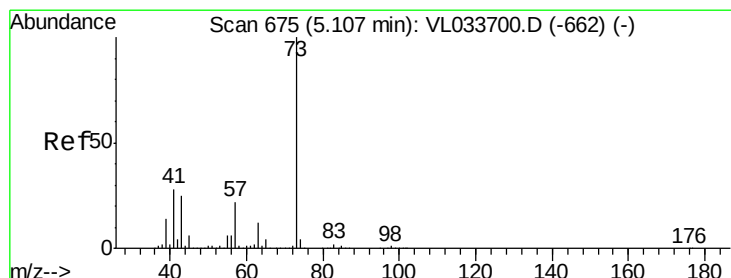
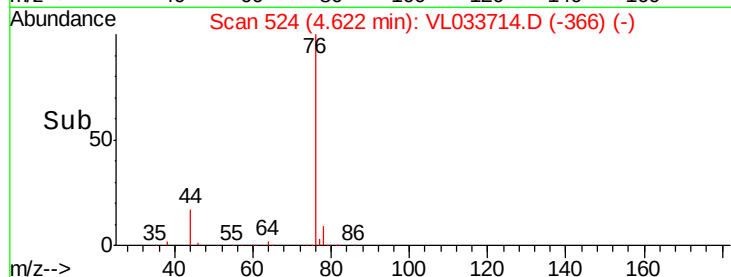
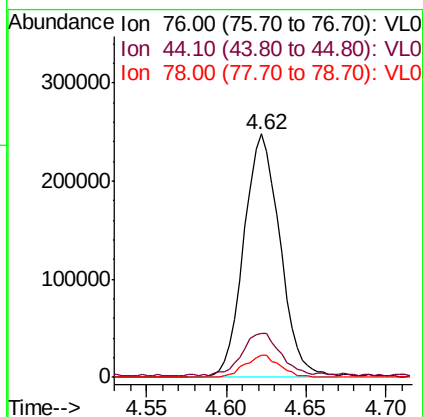
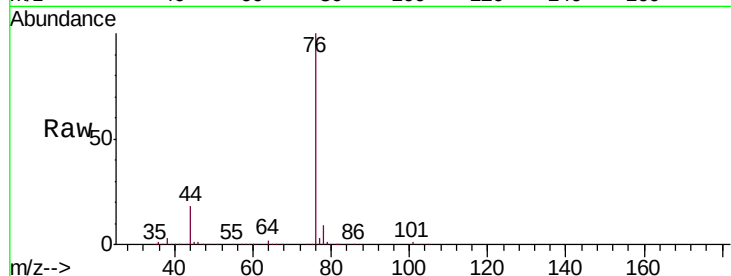
Tgt Ion: 76 Resp: 382725

Ion Ratio Lower Upper

76 100

44 19.4 13.8 20.8

78 8.9 7.4 11.0



#28

Methyl tert-Butyl Ether

Concen: 0.045 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.01 min

Lab File: VL033714.D

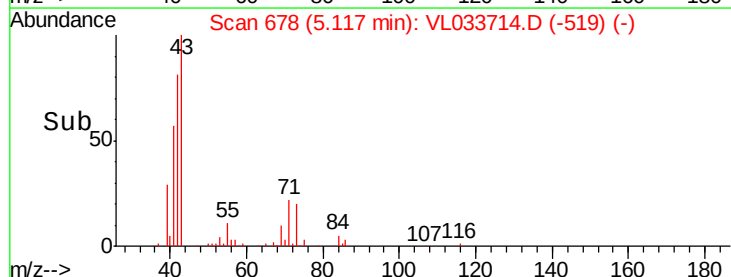
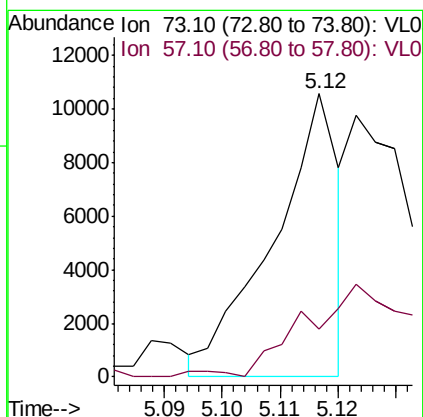
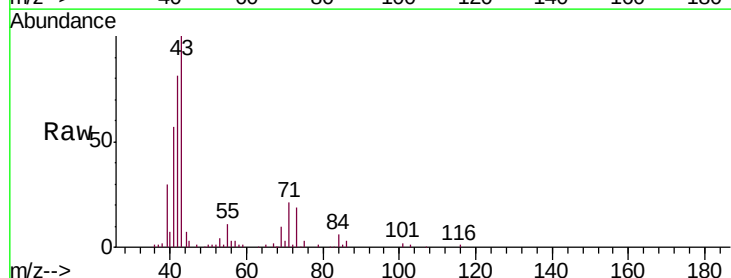
Acq: 17 May 2019 13:23

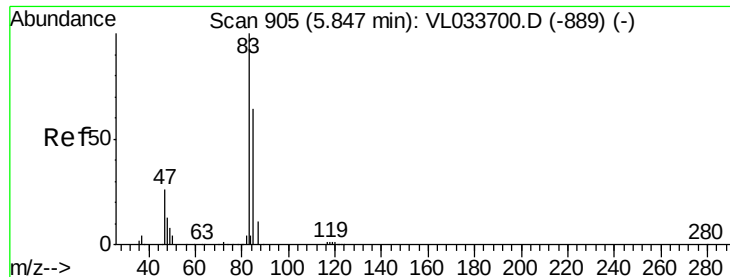
Tgt Ion: 73 Resp: 8275

Ion Ratio Lower Upper

73 100

57 0.0 17.4 26.2#

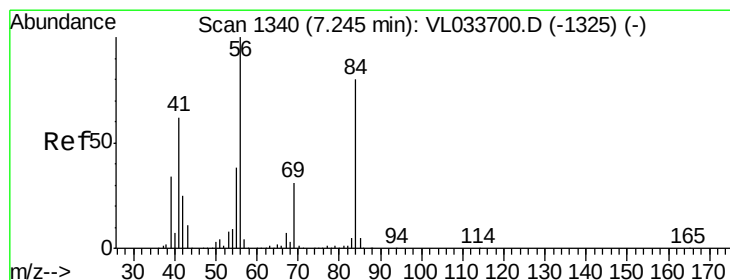
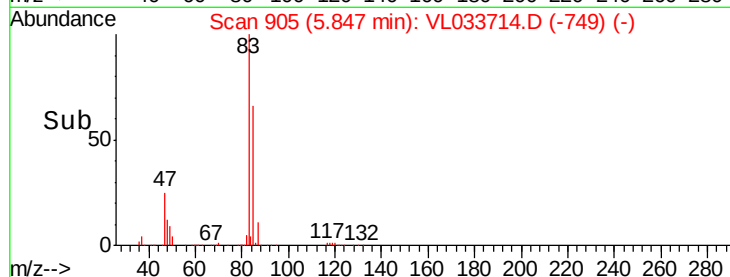
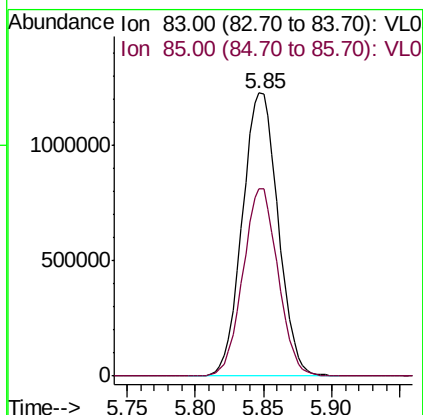
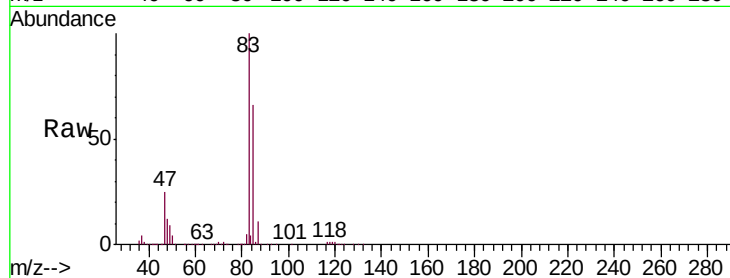




#29
Chloroform
Concen: 10.776 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

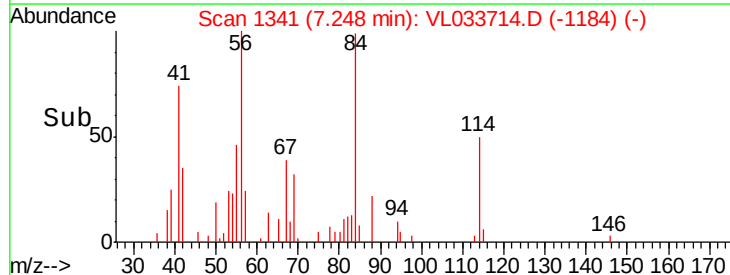
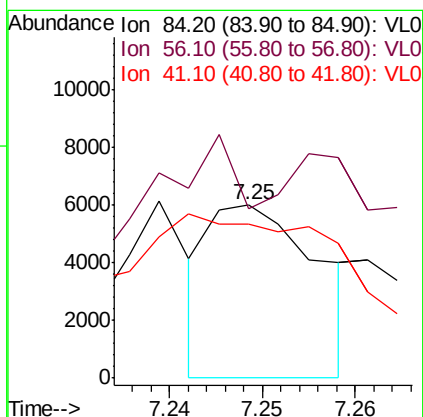
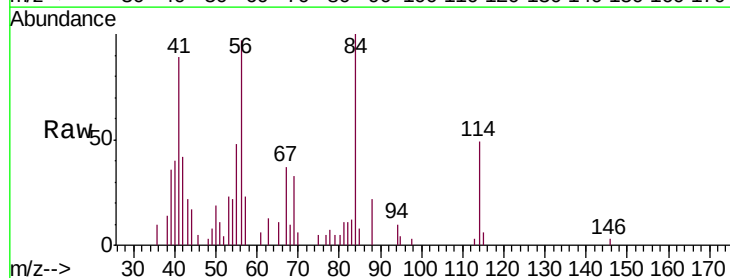
Instrument :
MSVOA_L
ClientSampleId :
S-01

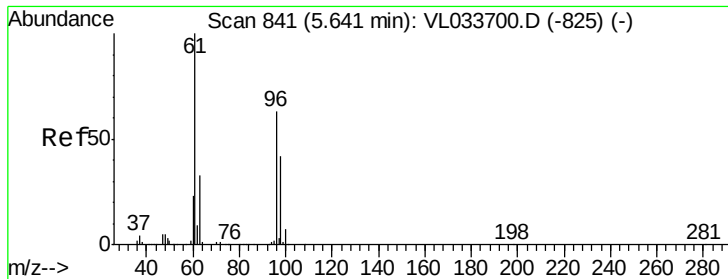
Tgt Ion: 83 Resp: 2235670
Ion Ratio Lower Upper
83 100
85 65.9 51.5 77.3



#30
Cyclohexane
Concen: 0.051 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

Tgt Ion: 84 Resp: 4872
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 0.0 66.0 99.0#





#31

cis-1,2-Dichloroethene

Concen: 1.987 ppbv

RT: 5.64 min Scan# 841

Delta R.T. 0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampled :

S-01

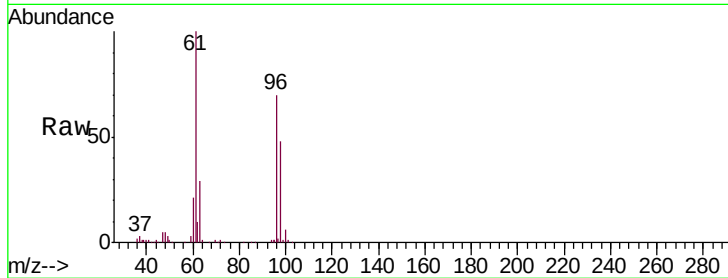
Tgt Ion: 61 Resp: 221962

Ion Ratio Lower Upper

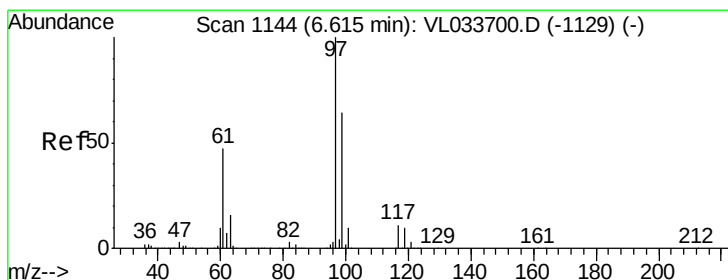
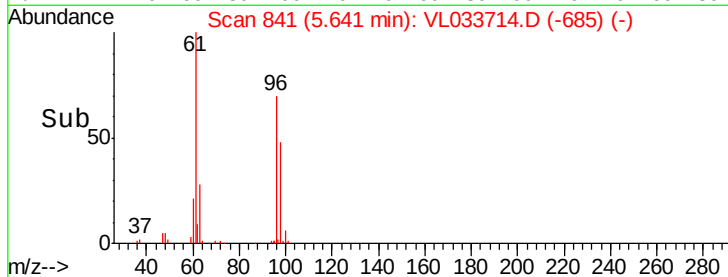
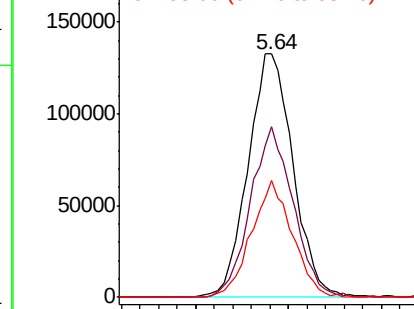
61 100

96 70.1 50.8 76.2

98 48.2 33.3 49.9



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.050 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

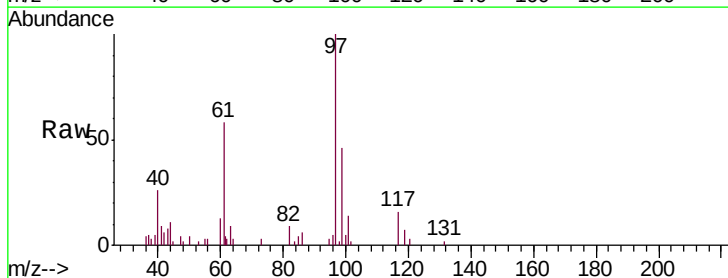
Tgt Ion: 97 Resp: 10450

Ion Ratio Lower Upper

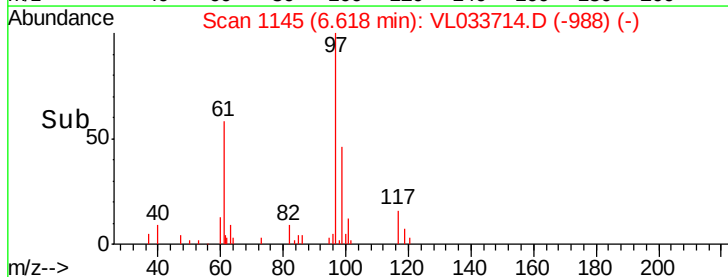
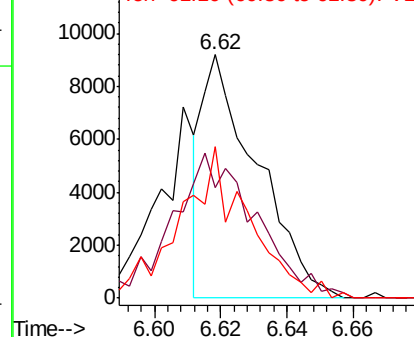
97 100

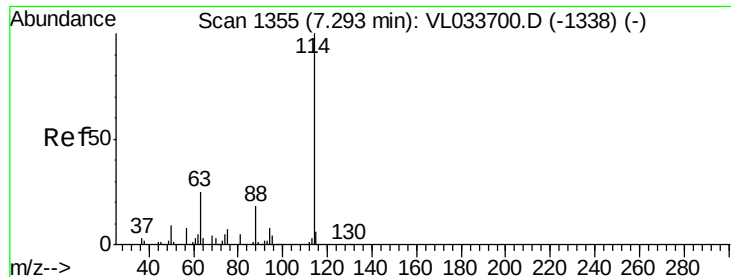
99 91.6 51.5 77.3#

61 79.8 37.8 56.8#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

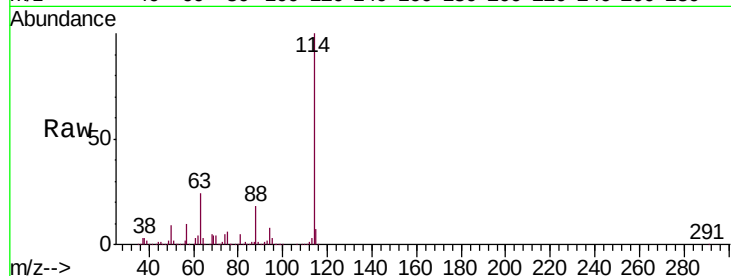




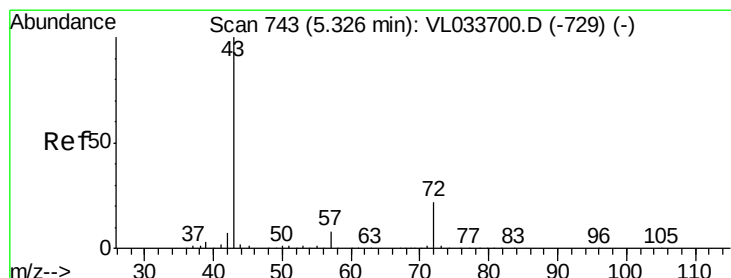
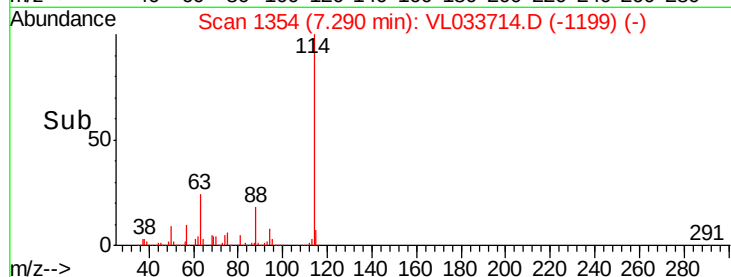
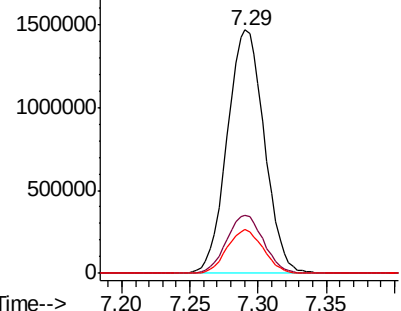
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033714.D
 Acq: 17 May 2019 13:23

Instrument :
 MSVOA_L
 ClientSampleId :
 S-01

Tgt Ion:114 Resp: 2767205
 Ion Ratio Lower Upper
 114 100
 63 23.9 20.9 31.3
 88 17.6 14.3 21.5

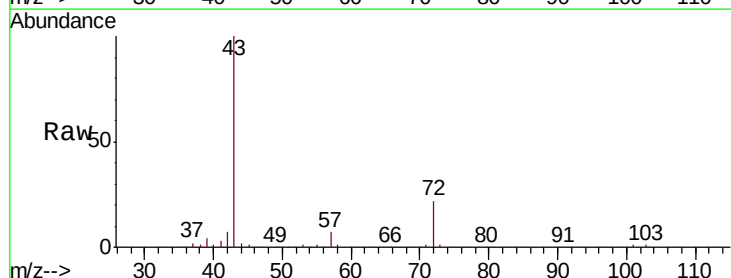


Abundance Ion 114.10 (113.80 to 114.80): VL0
 2000000
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

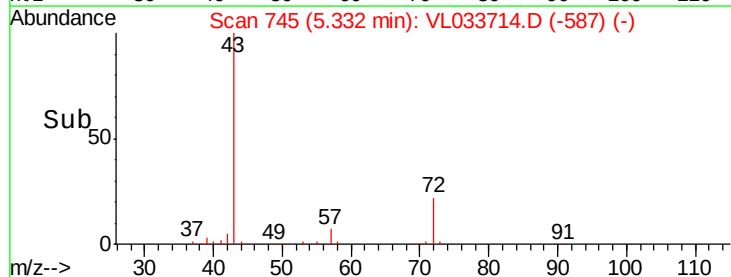
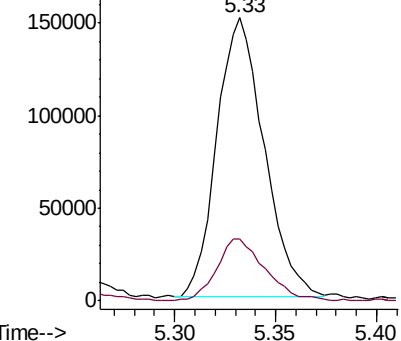


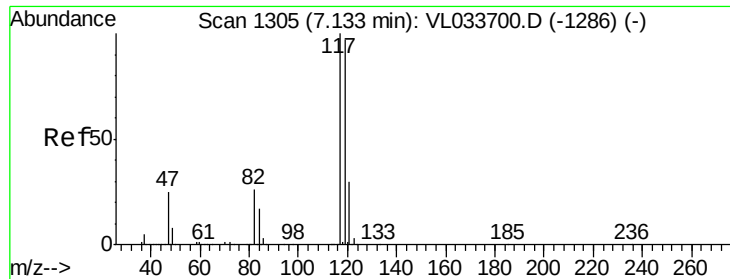
#34
 2-Butanone
 Concen: 1.444 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033714.D
 Acq: 17 May 2019 13:23

Tgt Ion: 43 Resp: 247756
 Ion Ratio Lower Upper
 43 100
 72 23.1 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 150000
 Ion 72.10 (71.80 to 72.80): VL0

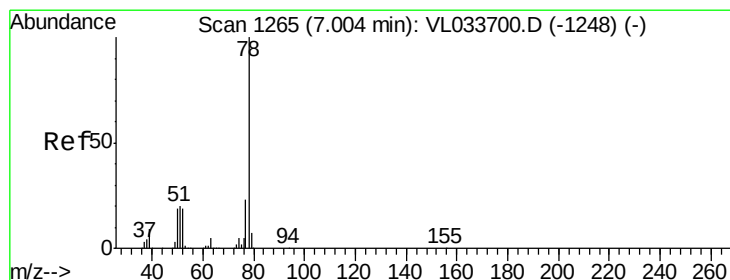
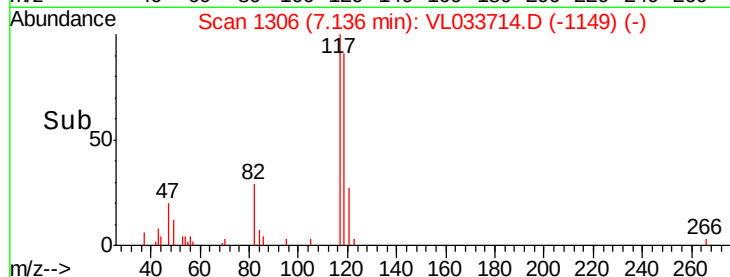
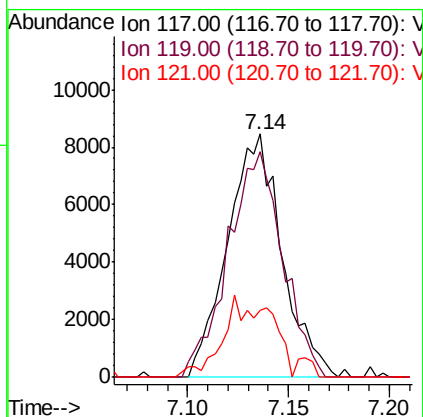
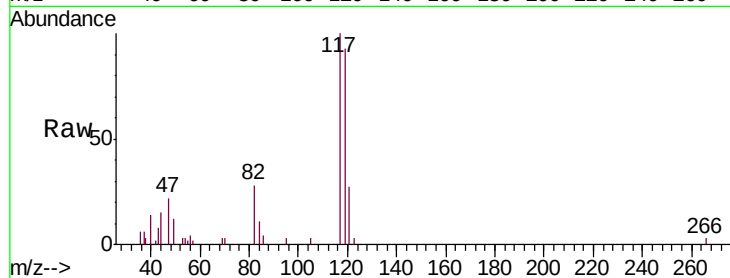




#35
Carbon Tetrachloride
Concen: 0.072 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

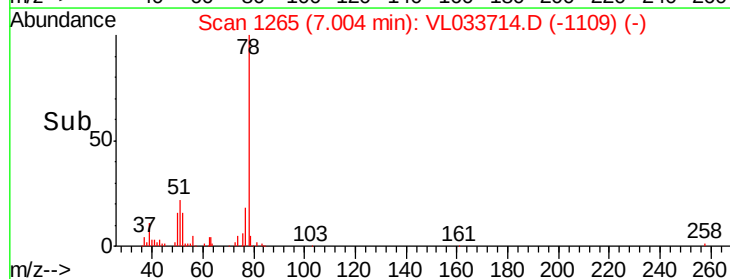
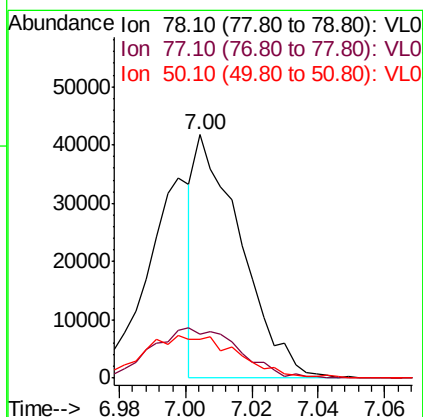
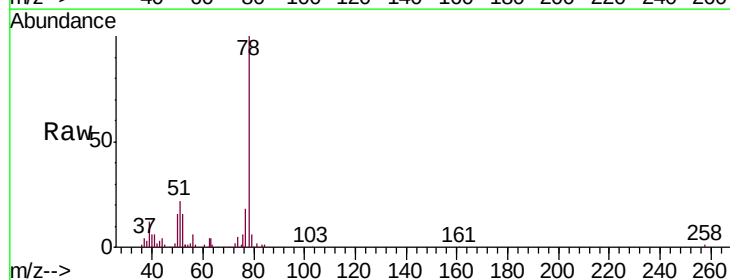
Instrument :
MSVOA_L
ClientSampled :
S-01

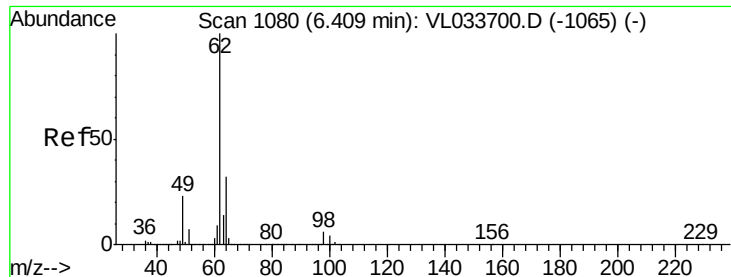
Tgt Ion: 117 Resp: 15865
Ion Ratio Lower Upper
117 100
119 92.7 77.2 115.8
121 27.5 24.1 36.1



#36
Benzene
Concen: 0.157 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

Tgt Ion: 78 Resp: 39549
Ion Ratio Lower Upper
78 100
77 17.6 18.4 27.6#
50 15.1 15.5 23.3#

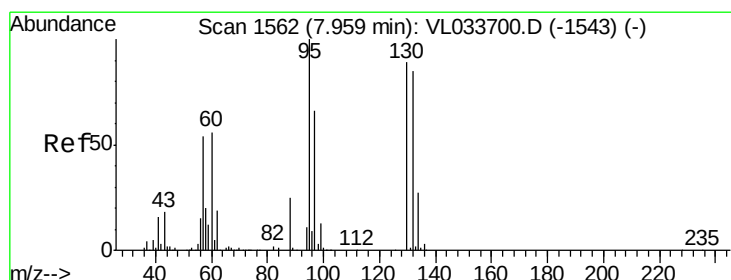
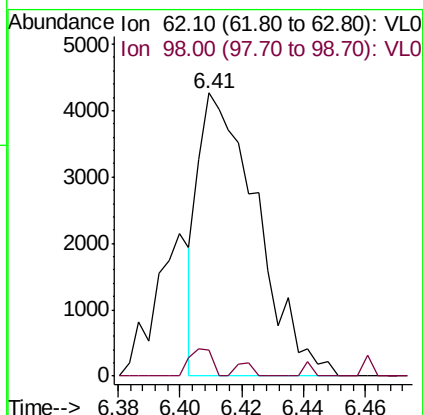
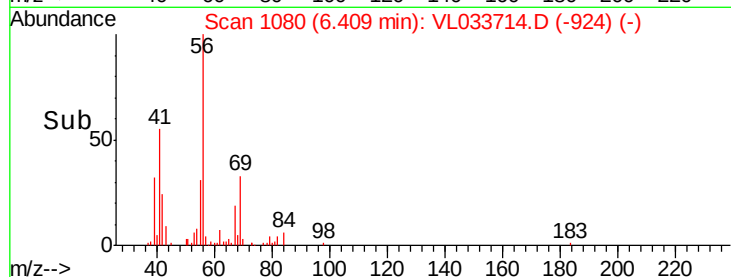
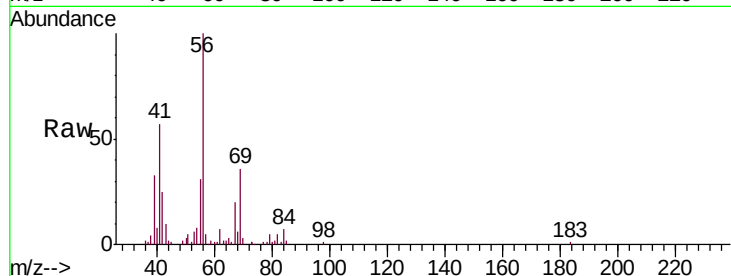




#37
 1,2-Dichloroethane
 Concen: 0.034 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VL033714.D
 Acq: 17 May 2019 13:23

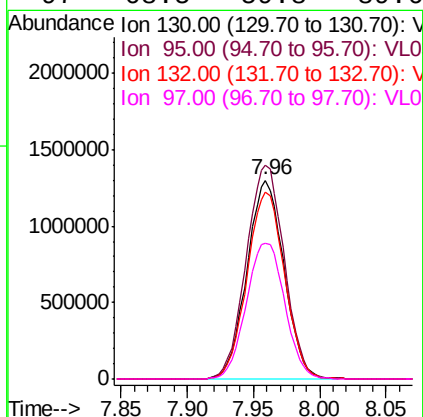
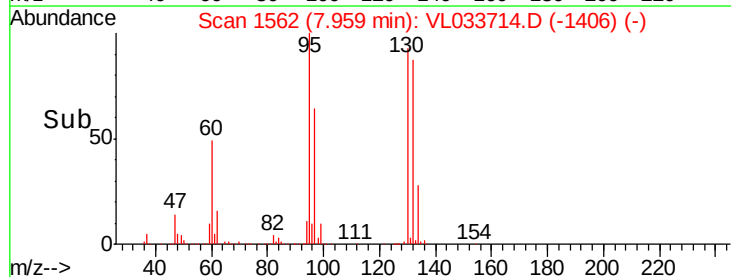
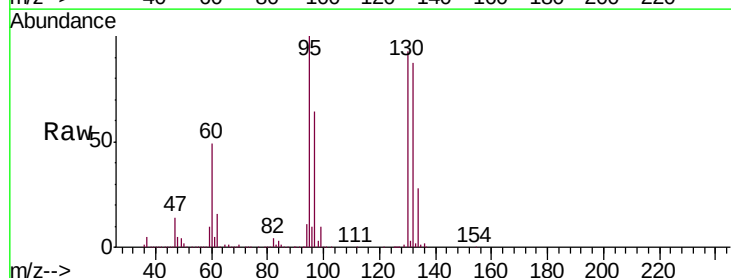
Instrument :
 MSVOA_L
 ClientSampleId :
 S-01

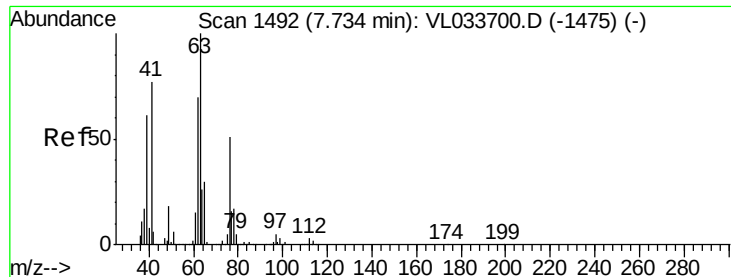
Tgt Ion: 62 Resp: 5601
 Ion Ratio Lower Upper
 62 100
 98 5.0 4.5 6.7



#38
 Trichloroethene
 Concen: 26.977 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033714.D
 Acq: 17 May 2019 13:23

Tgt Ion: 130 Resp: 2519799
 Ion Ratio Lower Upper
 130 100
 95 107.5 90.2 135.4
 132 93.8 76.4 114.6
 97 68.5 59.8 89.6





#39

1,2-Dichloropropane

Concen: 7.040 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.44 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

S-01

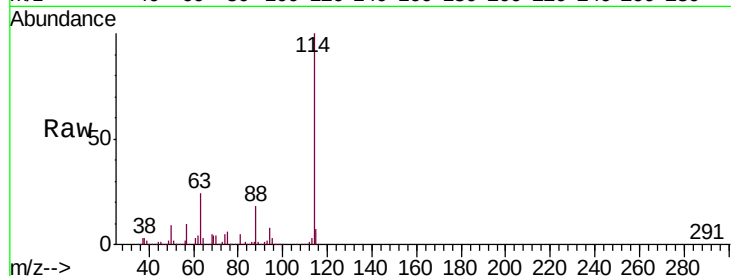
Tgt Ion: 63 Resp: 660688

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

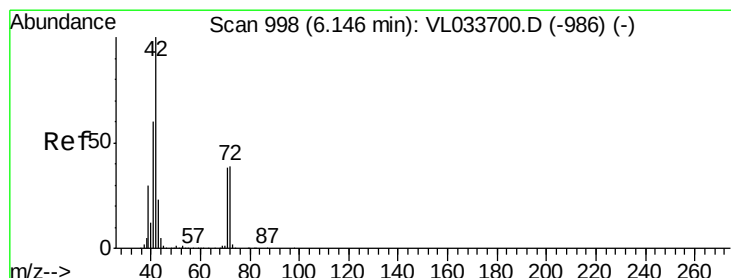
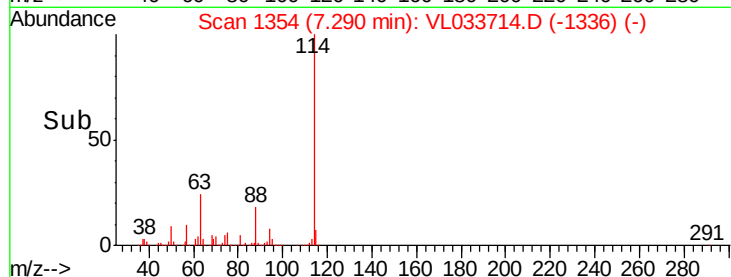
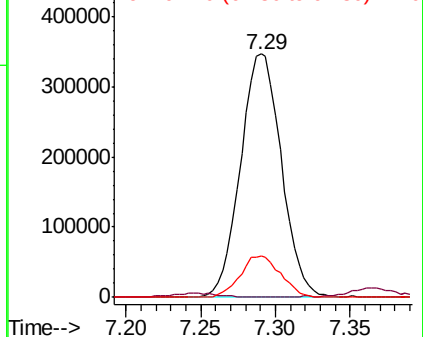
62 17.0 56.2 84.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.057 ppbv

RT: 6.16 min Scan# 1004

Delta R.T. 0.02 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

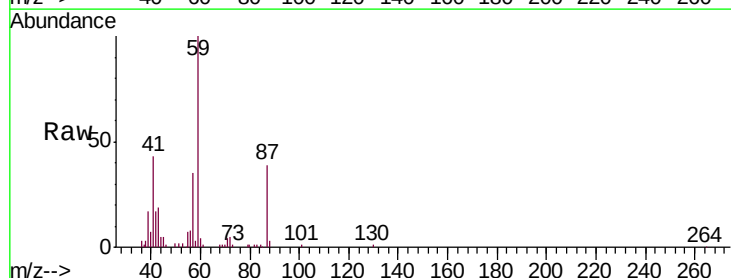
Tgt Ion: 42 Resp: 5438

Ion Ratio Lower Upper

42 100

72 74.1 32.0 48.0#

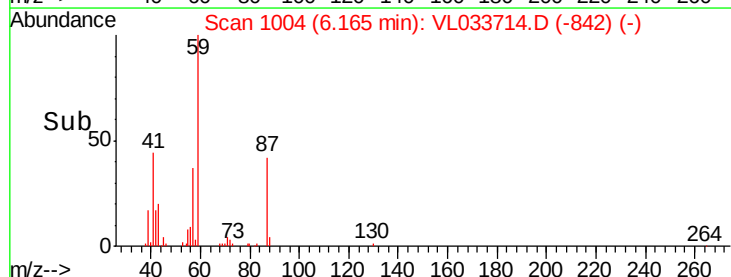
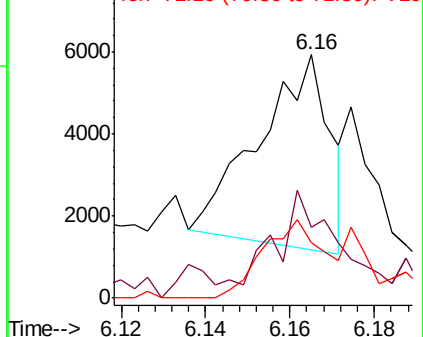
71 57.8 30.4 45.6#

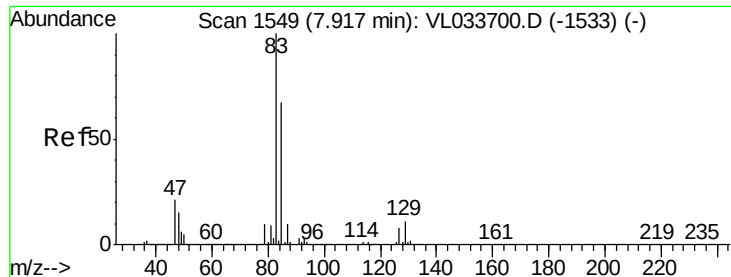


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.266 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. 0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

S-01

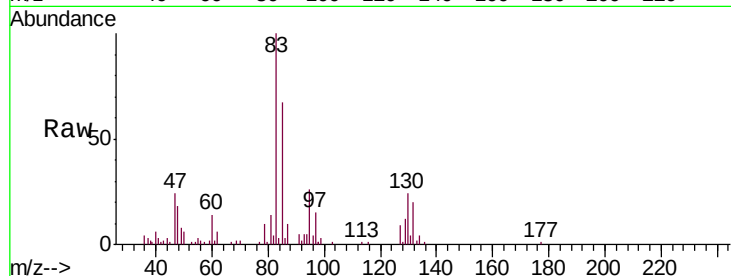
Tgt Ion: 83 Resp: 59163

Ion Ratio Lower Upper

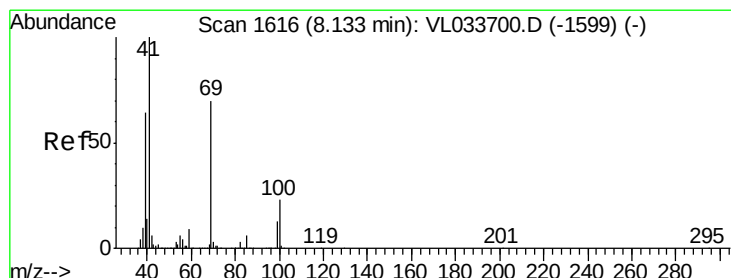
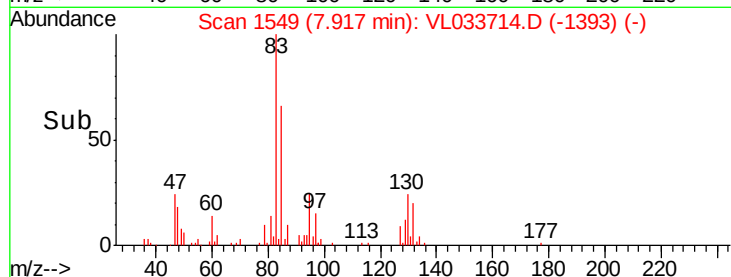
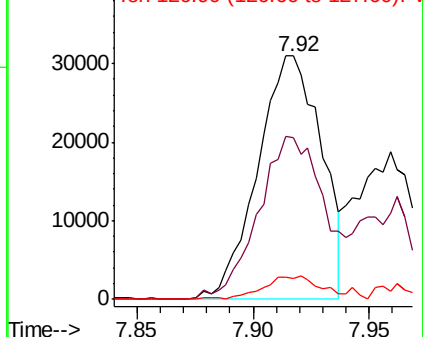
83 100

85 66.5 53.3 79.9

127 8.6 6.5 9.7



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: 0.033 ppbv

RT: 8.13 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

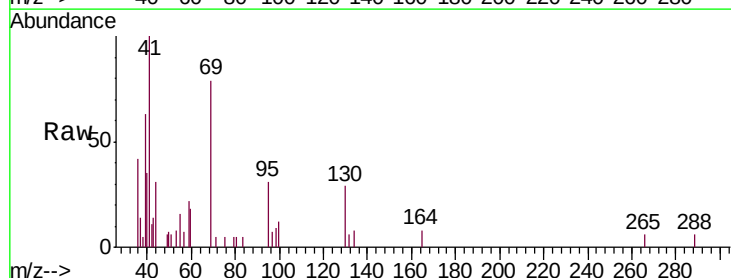
Tgt Ion: 69 Resp: 3065

Ion Ratio Lower Upper

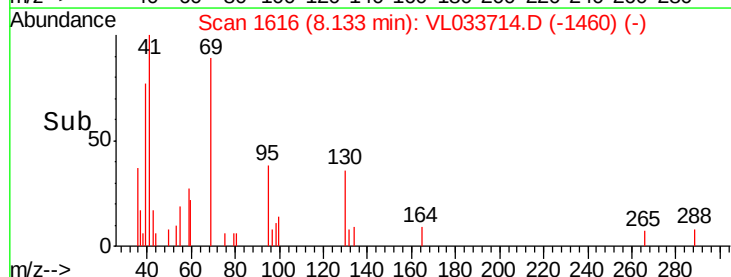
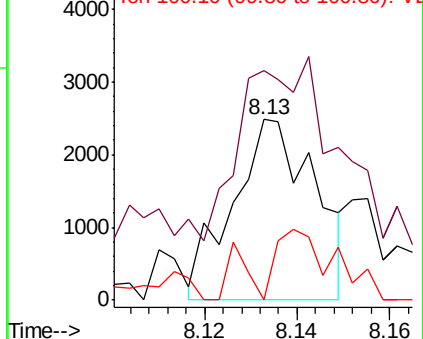
69 100

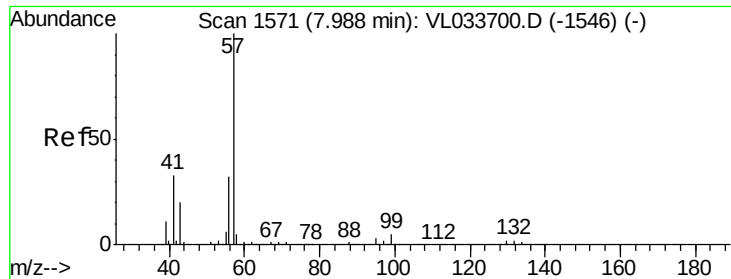
41 237.6 116.3 174.5#

100 35.0 25.3 37.9



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: 0.044 ppbv

RT: 7.98 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

S-01

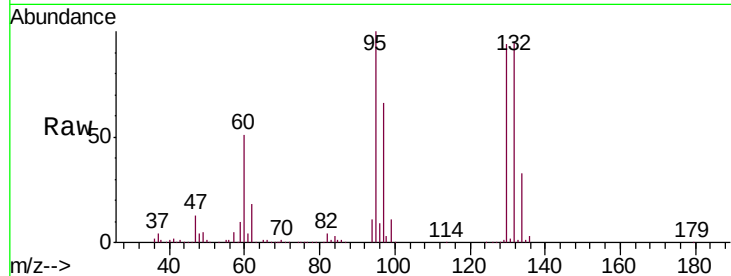
Tgt Ion: 57 Resp: 18610

Ion Ratio Lower Upper

57 100

41 0.0 25.4 38.0#

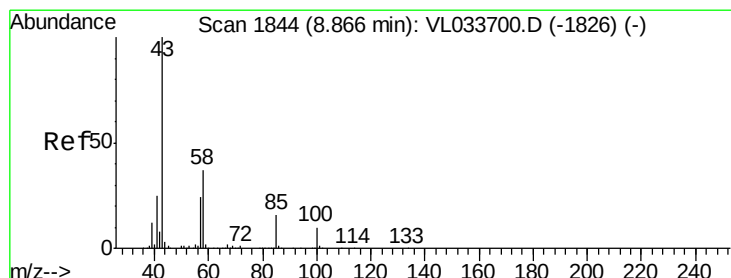
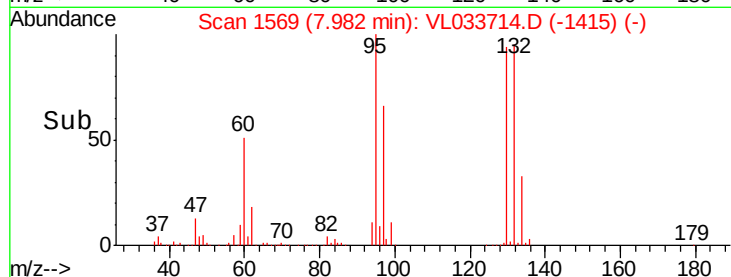
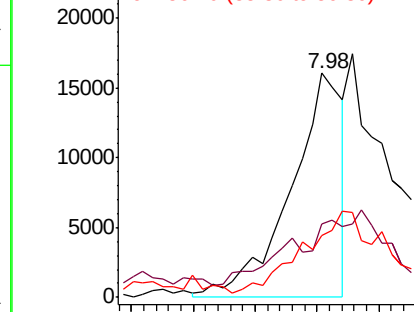
56 0.0 24.7 37.1#



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: 0.023 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.01 min

Lab File: VL033714.D

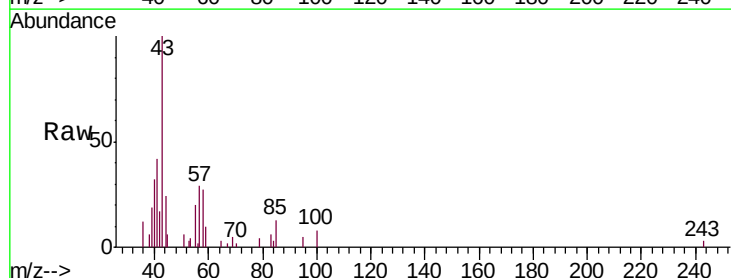
Acq: 17 May 2019 13:23

Tgt Ion: 43 Resp: 6033

Ion Ratio Lower Upper

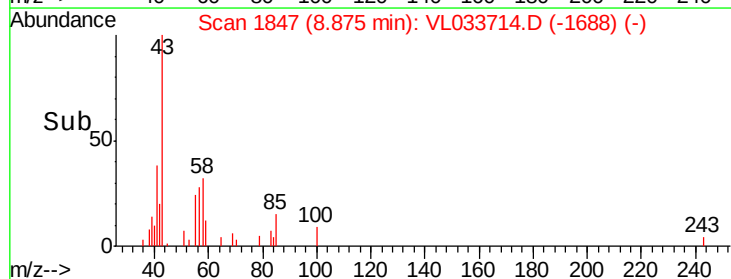
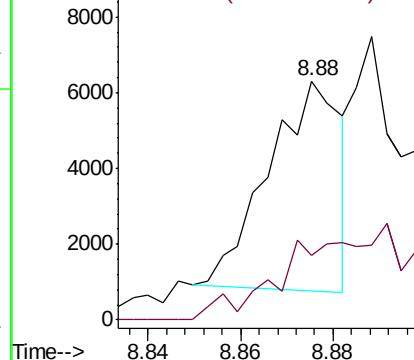
43 100

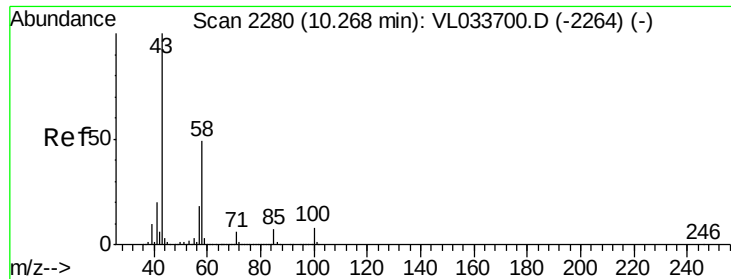
58 0.0 28.6 43.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

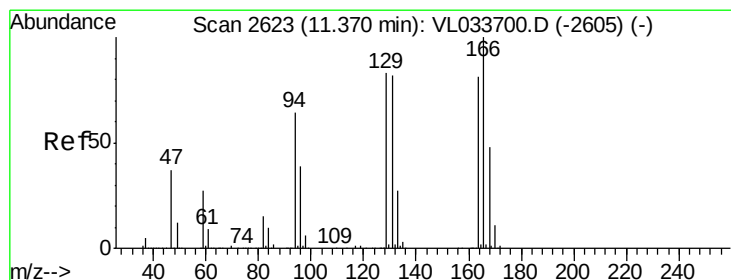
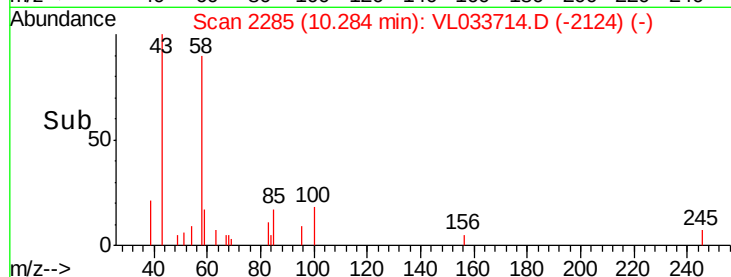
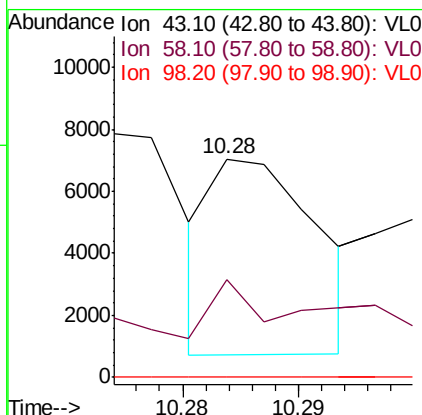
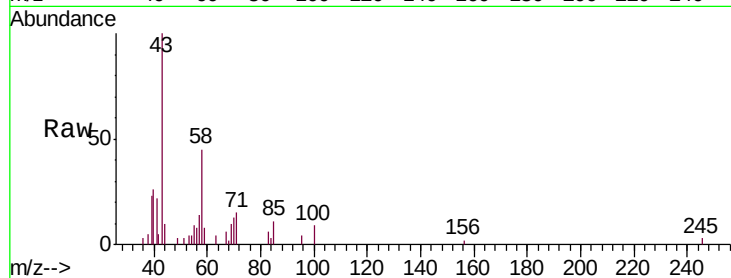




#51
2-Hexanone
Concen: 0.019 ppbv
RT: 10.28 min Scan# 2285
Delta R.T. 0.02 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

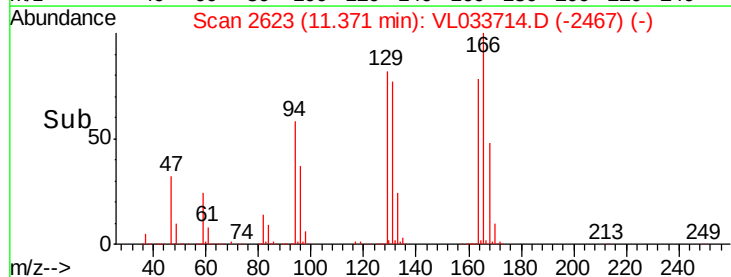
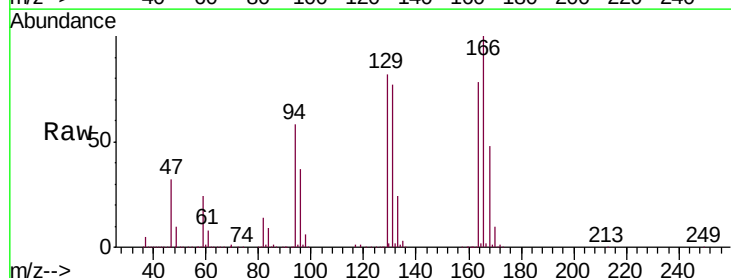
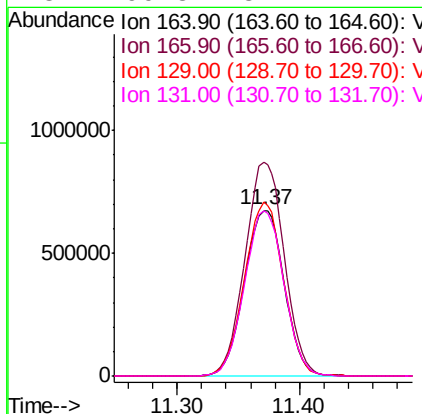
Instrument :
MSVOA_L
ClientSampled :
S-01

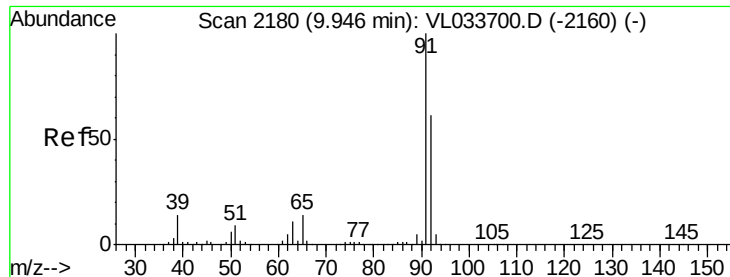
Tgt Ion: 43 Resp: 3979
Ion Ratio Lower Upper
43 100
58 170.5 38.7 58.1#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 17.169 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. 0.00 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

Tgt Ion: 164 Resp: 1519203
Ion Ratio Lower Upper
164 100
166 128.9 98.9 148.3
129 105.1 81.8 122.6
131 99.3 81.1 121.7





#53

Toluene

Concen: 1.274 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

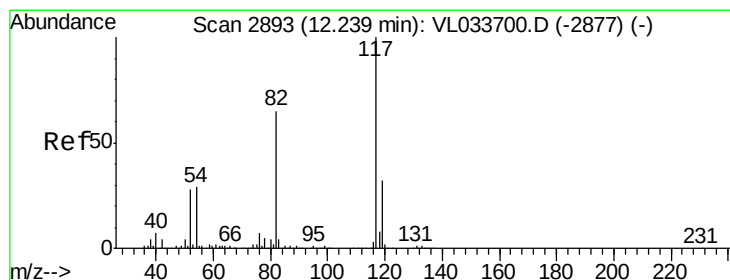
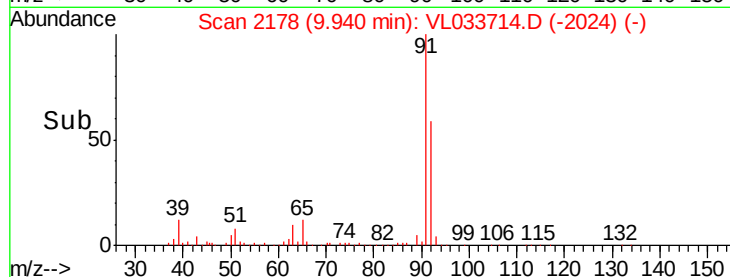
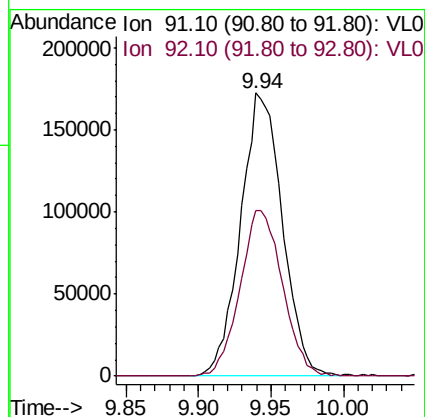
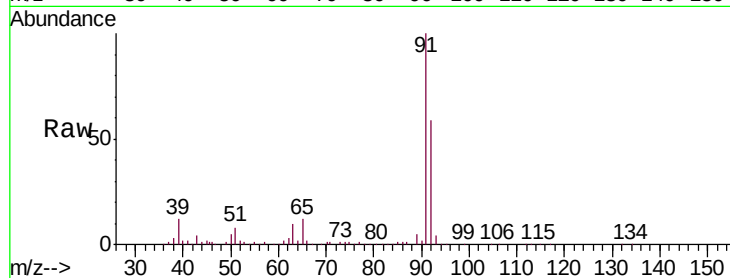
S-01

Tgt Ion: 91 Resp: 345869

Ion Ratio Lower Upper

91 100

92 59.6 47.6 71.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

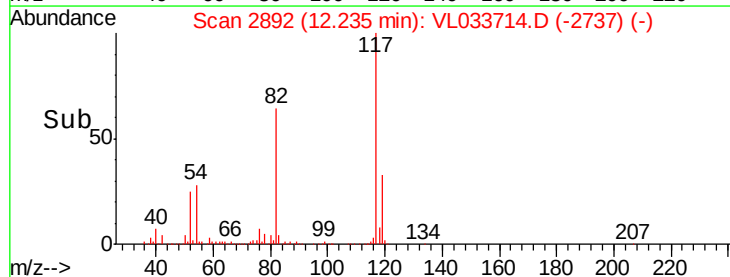
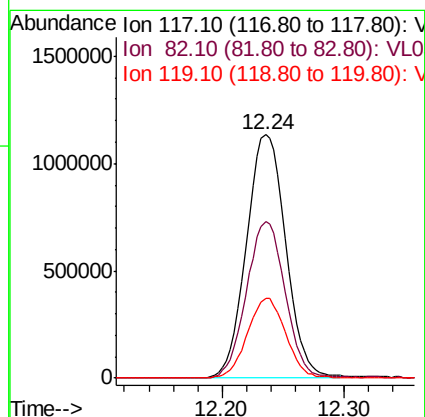
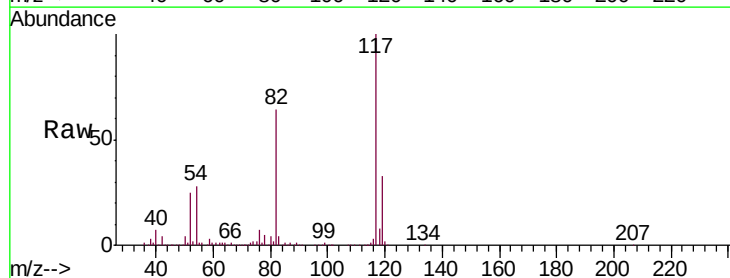
Tgt Ion: 117 Resp: 2525515

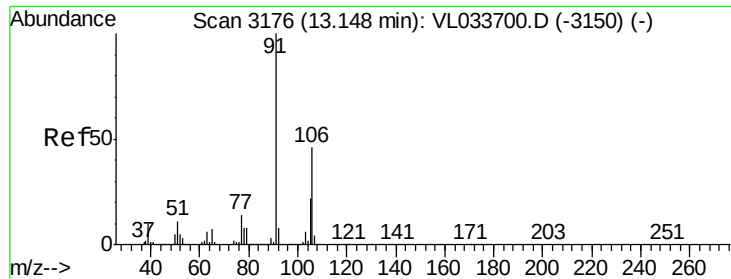
Ion Ratio Lower Upper

117 100

82 64.3 49.4 74.0

119 32.3 24.9 37.3

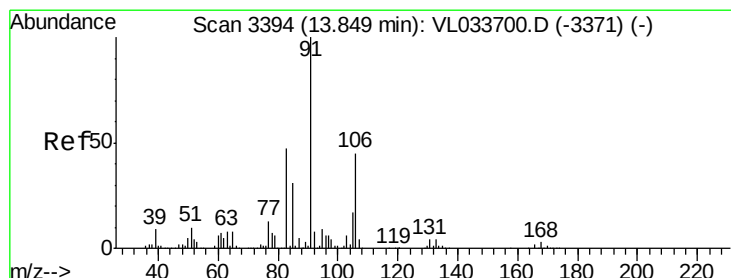
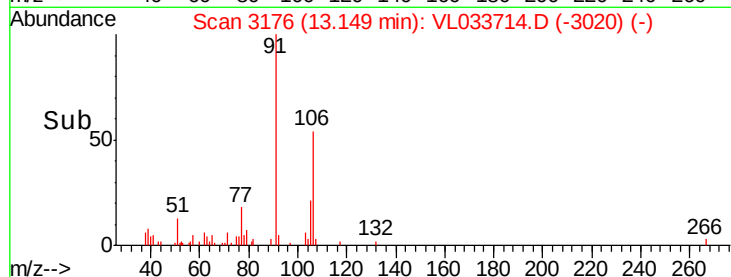
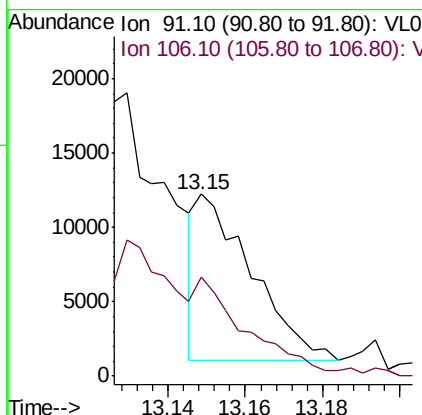
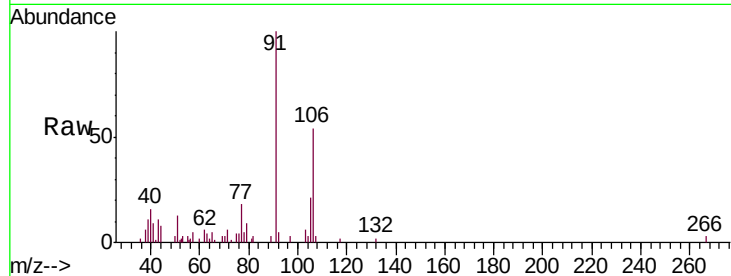




#59
m/p-Xylene
Concen: 0.038 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

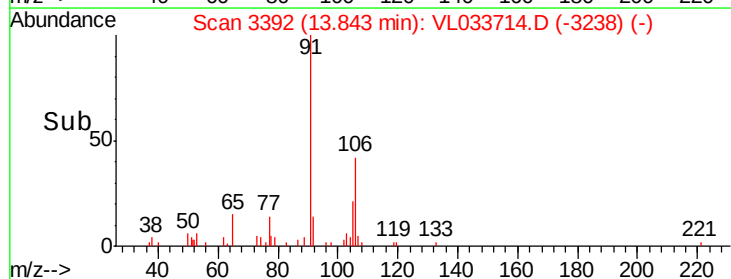
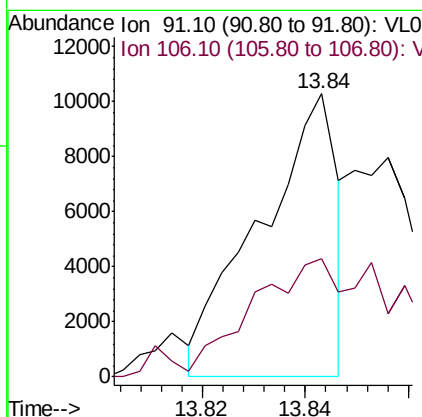
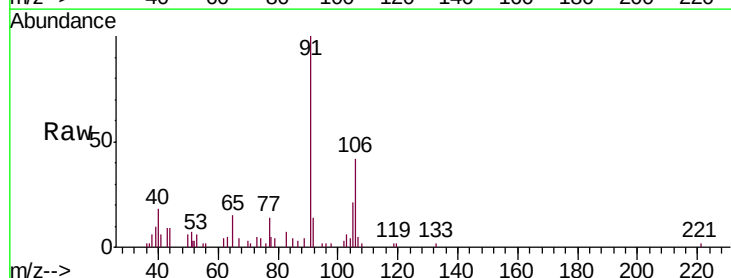
Instrument :
MSVOA_L
ClientSampleId :
S-01

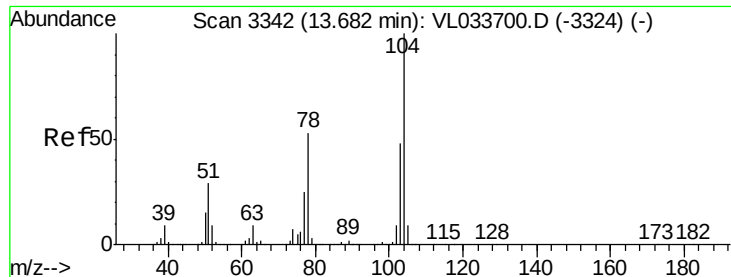
Tgt Ion: 91 Resp: 11026
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.6#



#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

Tgt Ion: 91 Resp: 10730
Ion Ratio Lower Upper
91 100
106 86.9 21.6 64.8#

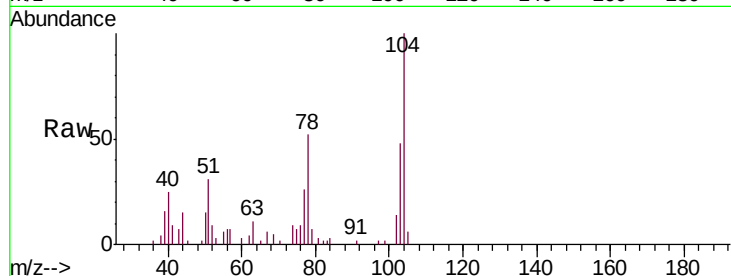




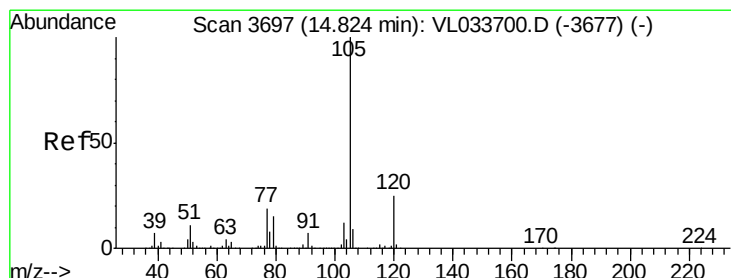
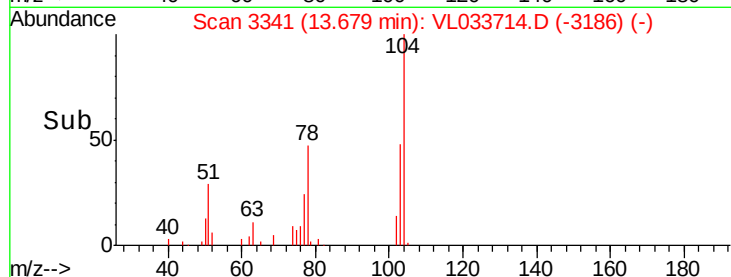
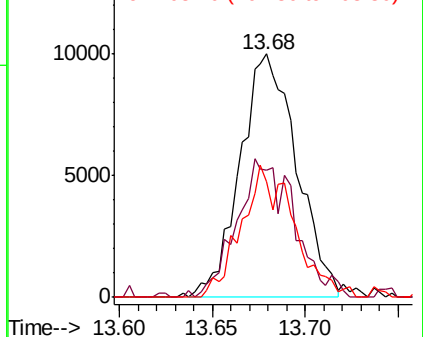
#61
Styrene
Concen: 0.107 ppbv
RT: 13.68 min Scan# 3341
Delta R.T. -0.00 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

Instrument :
MSVOA_L
ClientSampleId :
S-01

Tgt Ion:104 Resp: 21201
Ion Ratio Lower Upper
104 100
78 58.6 42.6 64.0
103 50.3 37.8 56.6

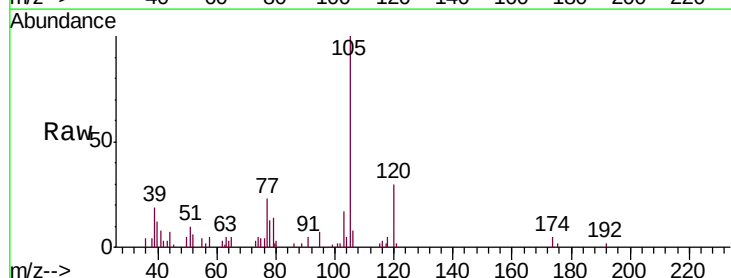


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

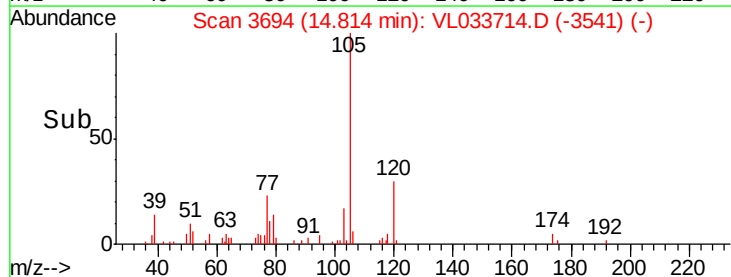
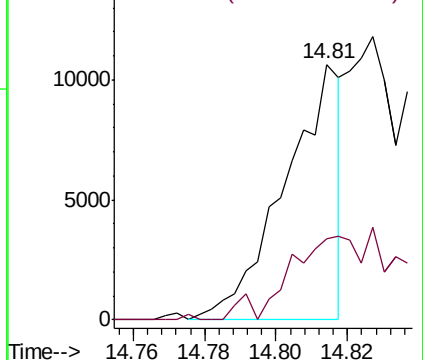


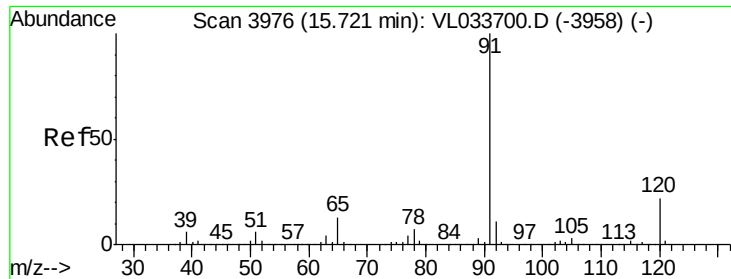
#62
Isopropylbenzene
Concen: 0.029 ppbv
RT: 14.81 min Scan# 3694
Delta R.T. -0.01 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

Tgt Ion:105 Resp: 11551
Ion Ratio Lower Upper
105 100
120 0.0 20.1 30.1#



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V

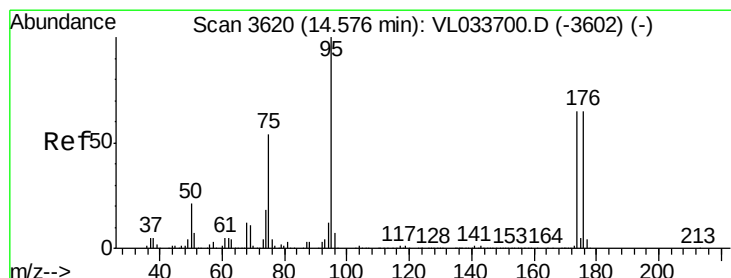
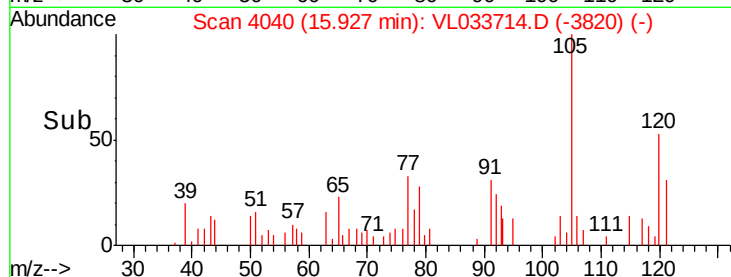
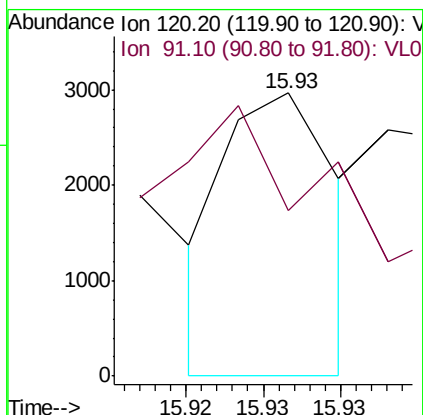
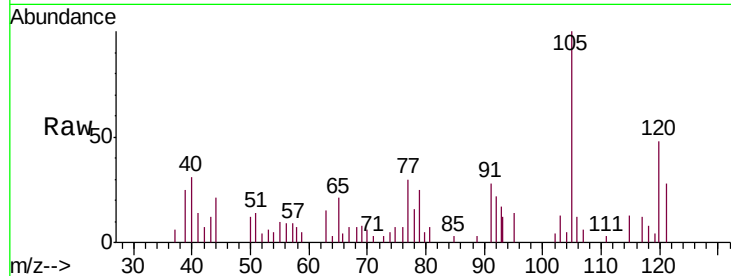




#64
n-propylbenzene
Concen: 0.014 ppbv
RT: 15.93 min Scan# 4040
Delta R.T. 0.21 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

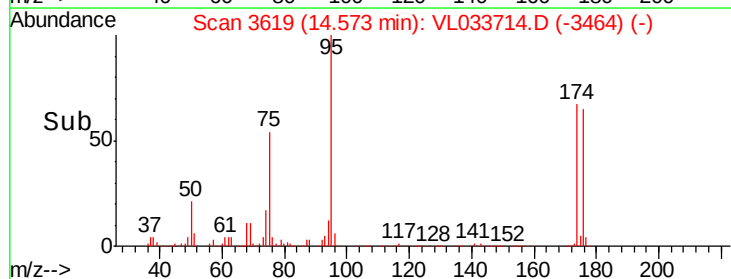
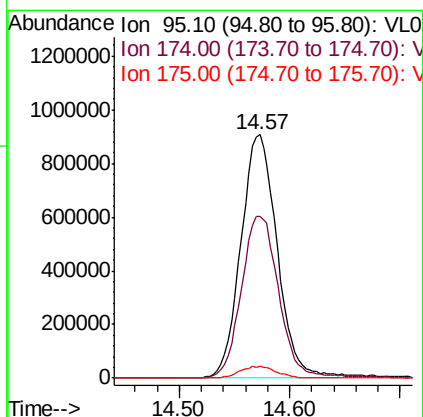
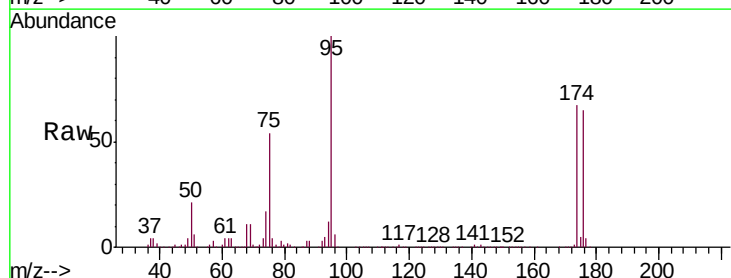
Instrument :
MSVOA_L
ClientSampled :
S-01

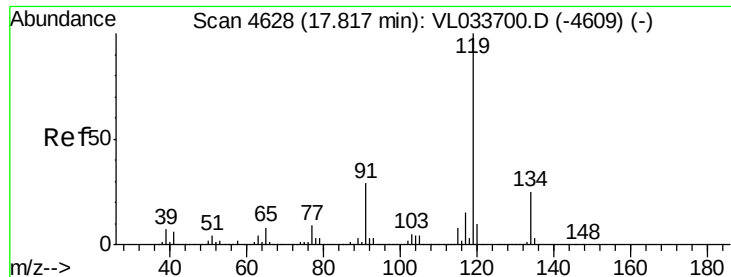
Tgt Ion: 120 Resp: 1488
Ion Ratio Lower Upper
120 100
91 439.2 379.1 568.7



#68
1-Bromo-4-Fluorobenzene
Concen: 10.089 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.00 min
Lab File: VL033714.D
Acq: 17 May 2019 13:23

Tgt Ion: 95 Resp: 2065601
Ion Ratio Lower Upper
95 100
174 69.8 53.9 80.9
175 4.9 3.8 5.8

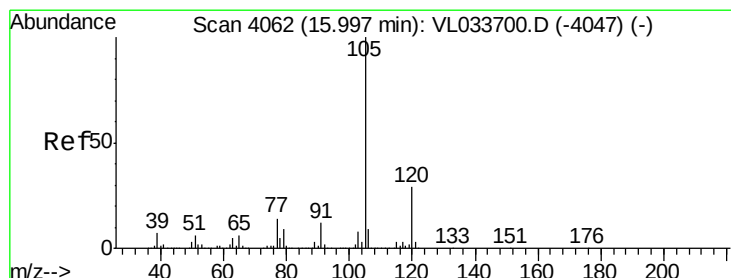
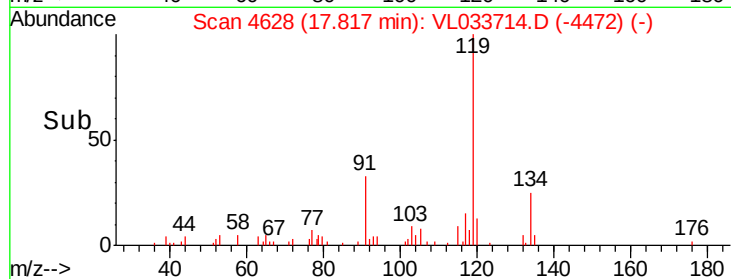
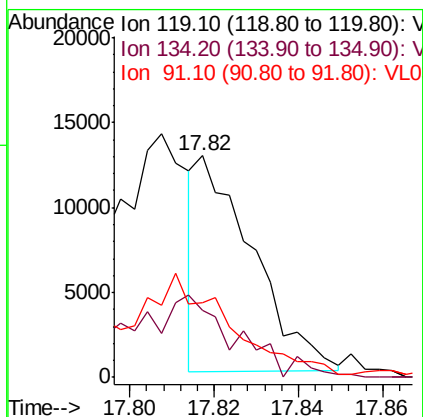
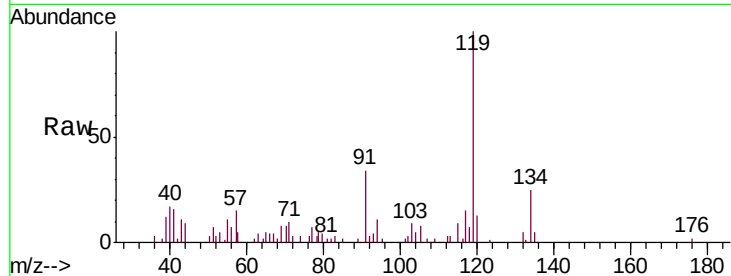




#69
 p-Isopropyltoluene
 Concen: 0.028 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. 0.00 min
 Lab File: VL033714.D
 Acq: 17 May 2019 13:23

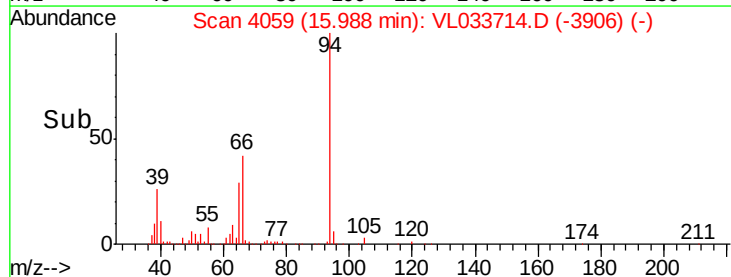
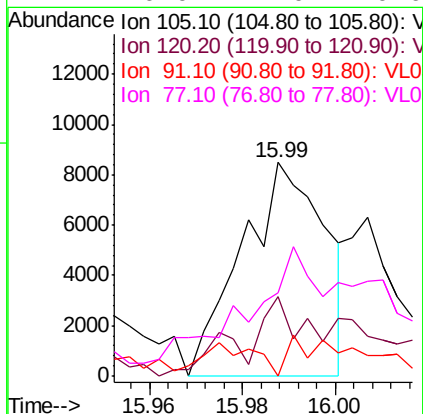
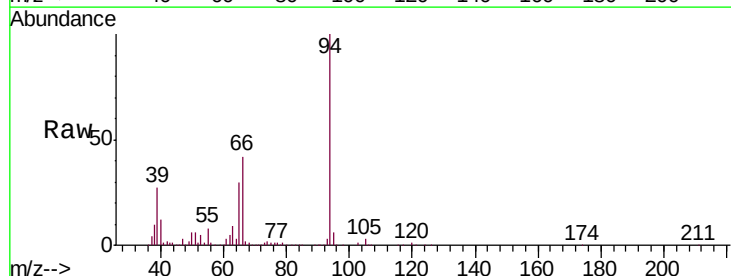
Instrument :
 MSVOA_L
 ClientSampleId :
 S-01

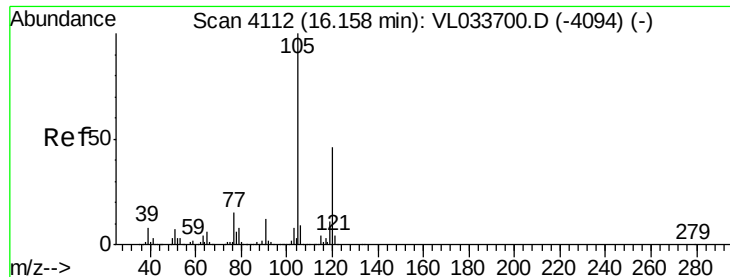
Tgt Ion:119 Resp: 11634
 Ion Ratio Lower Upper
 119 100
 134 81.8 20.3 30.5#
 91 101.3 23.1 34.7#



#72
 4-Ethyltoluene
 Concen: 0.031 ppbv
 RT: 15.99 min Scan# 4059
 Delta R.T. -0.01 min
 Lab File: VL033714.D
 Acq: 17 May 2019 13:23

Tgt Ion:105 Resp: 10588
 Ion Ratio Lower Upper
 105 100
 120 49.2 23.1 34.7#
 91 27.5 10.4 15.6#
 77 116.0 11.0 16.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.020 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

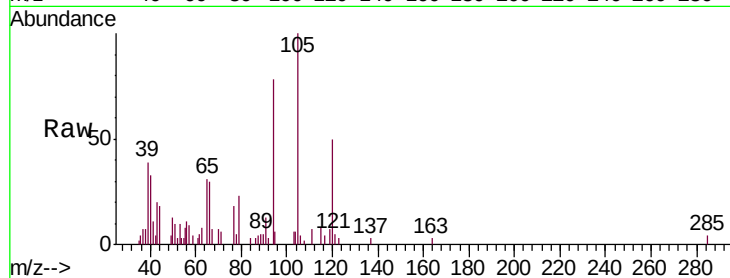
S-01

Tgt Ion:105 Resp: 6725

Ion Ratio Lower Upper

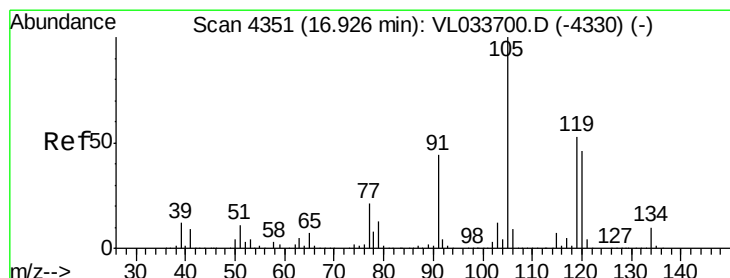
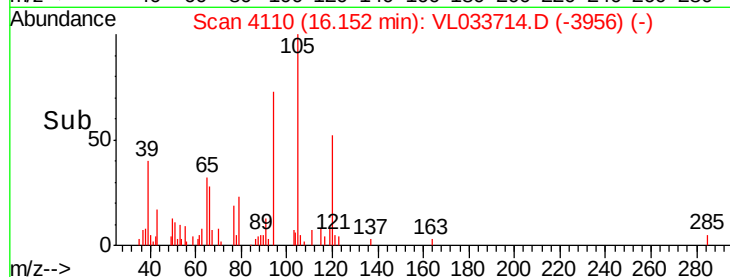
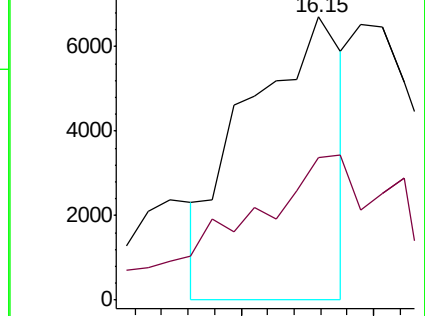
105 100

120 53.4 37.0 55.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.054 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Tgt Ion:105 Resp: 19448

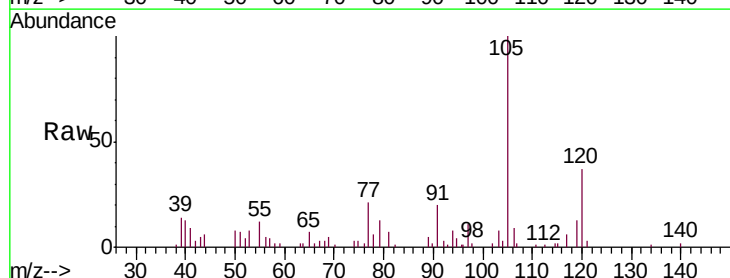
Ion Ratio Lower Upper

105 100

120 36.7 36.8 55.2#

91 19.5 35.4 53.0#

77 14.5 16.8 25.2#

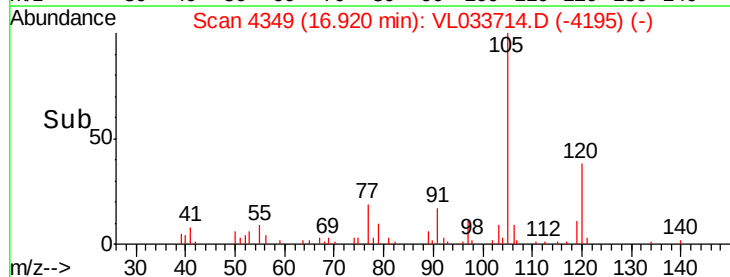
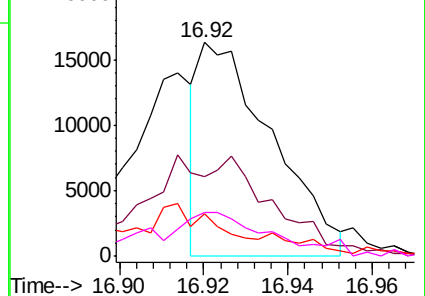


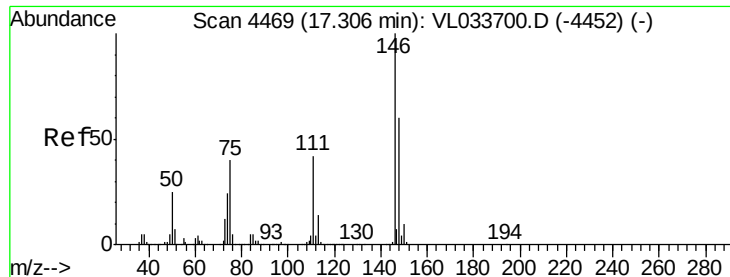
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#76

1,4-Dichlorobenzene

Concen: 0.035 ppbv

RT: 17.30 min Scan# 4466

Delta R.T. -0.01 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

S-01

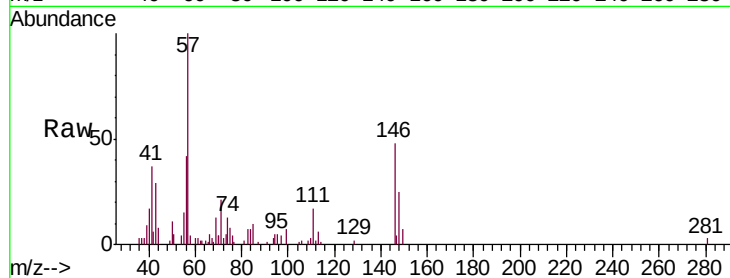
Tgt Ion:146 Resp: 7287

Ion Ratio Lower Upper

146 100

111 91.2 21.9 65.8#

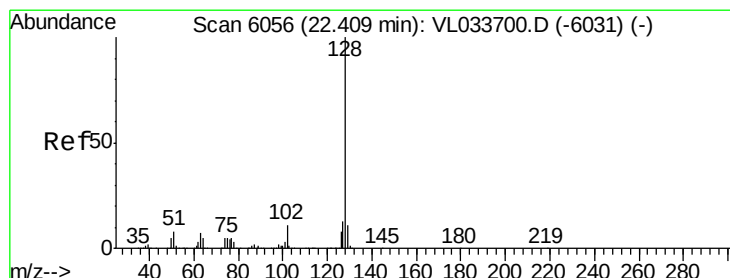
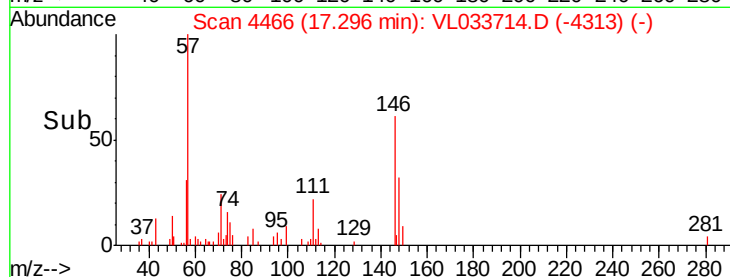
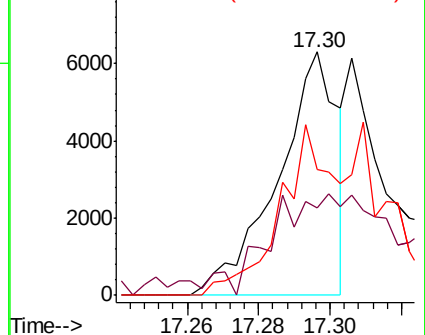
148 0.0 32.1 96.3#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.020 ppbv

RT: 22.41 min Scan# 6055

Delta R.T. -0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

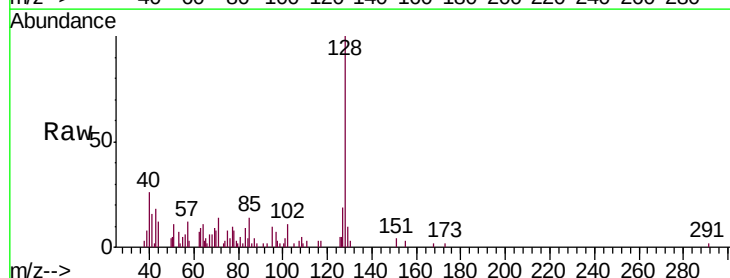
Tgt Ion:128 Resp: 6517

Ion Ratio Lower Upper

128 100

127 21.2 10.6 16.0#

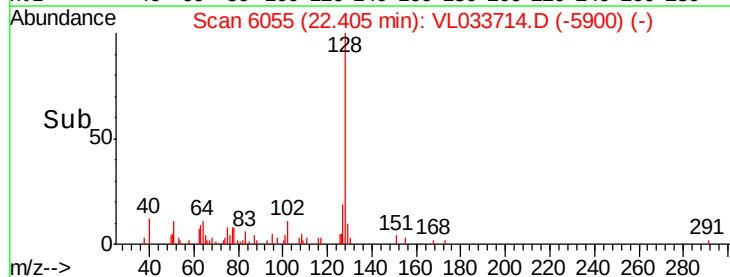
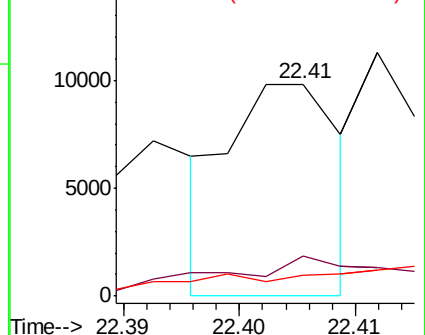
129 9.6 8.9 13.3

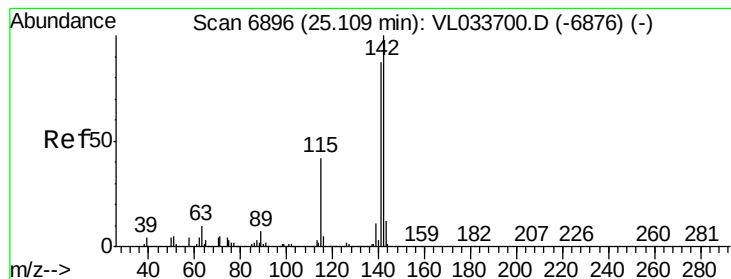


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.099 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033714.D

Acq: 17 May 2019 13:23

Instrument :

MSVOA_L

ClientSampleId :

S-01

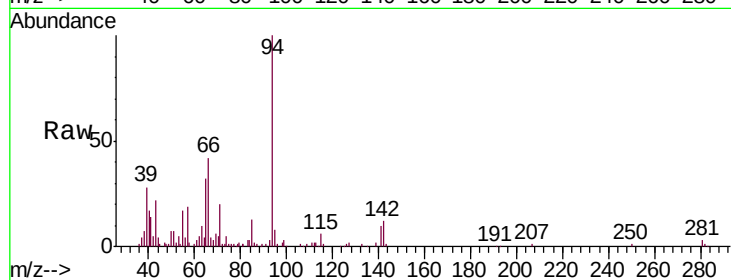
Tgt Ion:142 Resp: 12519

Ion Ratio Lower Upper

142 100

141 84.6 67.2 100.8

115 44.9 34.1 51.1



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

