

Data File : VL033715.D
Acq On : 17 May 2019 14:04
Operator : SY/AP
Sample : K2904-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
S-02

Quant Time: May 17 23:22:01 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	1027936	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2615096	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2396703	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1968216	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	45416	0.210	ppbv	96
3) Chlorodifluoromethane	2.99	51	2342484	19.894	ppbv #	76
4) Chloromethane	3.17	50	28282	0.420	ppbv	99
7) Chloroethane	3.60	64	1289	0.053	ppbv #	77
8) Dichlorotetrafluoroethane	3.22	85	3220	0.018	ppbv	89
9) Propene	3.24	41	388666	7.761	ppbv	99
11) Trichlorofluoromethane	4.00	101	449997	2.176	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.54	101	5255	0.036	ppbv #	13
13) Ethanol	3.66	45	3164206	195.475	ppbv	99
15) Acetone	3.90	43	1577453	11.060	ppbv	98
16) 1,3-Butadiene	3.34	39	92210	1.624	ppbv #	12
17) tert-Butyl alcohol	4.37	59	114397	0.992	ppbv	98
18) 1,1-Dichloroethene	4.35	96	2839	0.047	ppbv	87
19) Isopropyl Alcohol	4.03	45	1106074	12.028	ppbv #	99
20) Methylene Chloride	4.41	84	585185	10.657	ppbv	100
21) Allyl Chloride	4.40	41	24949	0.280	ppbv #	1
22) trans-1,2-Dichloroethene	4.95	96	1008	0.016	ppbv #	71
23) Vinyl Acetate	5.14	43	41876	0.223	ppbv #	4
25) Ethyl Acetate	5.78	43	197691	0.789	ppbv #	89
26) Hexane	5.78	57	225722	2.096	ppbv #	48
27) Carbon Disulfide	4.62	76	268718	1.819	ppbv	98
29) Chloroform	5.84	83	1767299	8.908	ppbv	99
30) Cyclohexane	7.25	84	5152	0.057	ppbv #	1
31) cis-1,2-Dichloroethene	5.64	61	146769	1.374	ppbv	96
32) 1,1,1-Trichloroethane	6.61	97	17352	0.088	ppbv	96
34) 2-Butanone	5.33	43	67863	0.419	ppbv	100
35) Carbon Tetrachloride	7.13	117	10201	0.049	ppbv #	91
36) Benzene	7.00	78	21378	0.090	ppbv #	87
37) 1,2-Dichloroethane	6.40	62	2171	0.014	ppbv #	83
38) Trichloroethene	7.96	130	568862	6.445	ppbv	97
39) 1,2-Dichloropropane	7.29	63	636383	7.175	ppbv #	23
41) Tetrahydrofuran	6.16	42	3054	0.034	ppbv #	44
42) Bromodichloromethane	7.91	83	93939	0.447	ppbv	98
52) Tetrachloroethene	11.37	164	13626	0.163	ppbv	90
53) Toluene	9.94	91	87046	0.339	ppbv	99
58) Ethyl Benzene	12.86	91	6582	0.021	ppbv	95
61) Styrene	13.68	104	22885	0.122	ppbv #	74
62) Isopropylbenzene	14.82	105	4064	0.011	ppbv #	50
73) 1,3,5-Trimethylbenzene	16.15	105	5548	0.018	ppbv #	86
74) 1,2,4-Trimethylbenzene	16.92	105	18973	0.056	ppbv #	76
80) Naphthalene,2-methyl-	25.12	142	7801	0.065	ppbv	89

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

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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

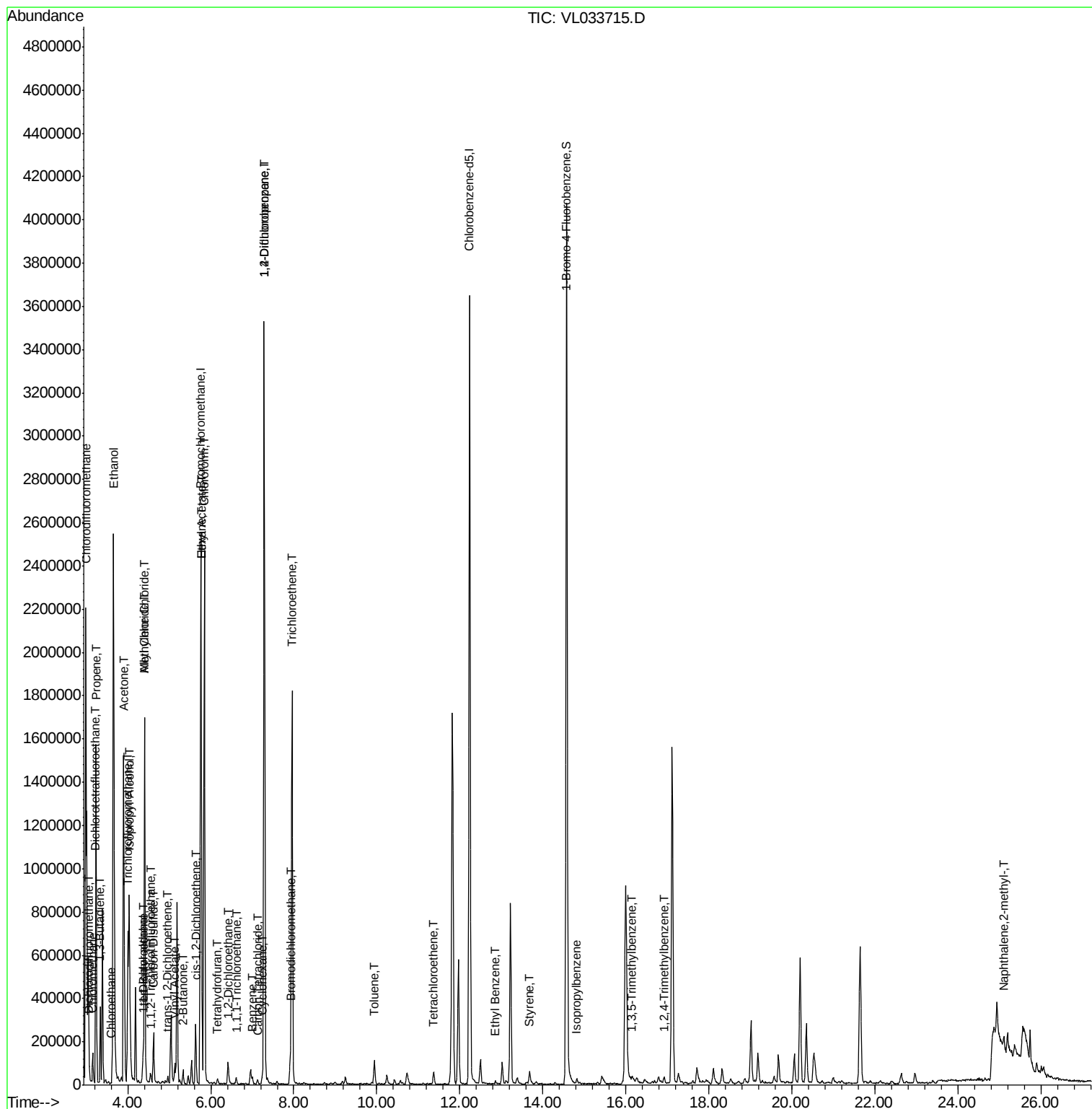
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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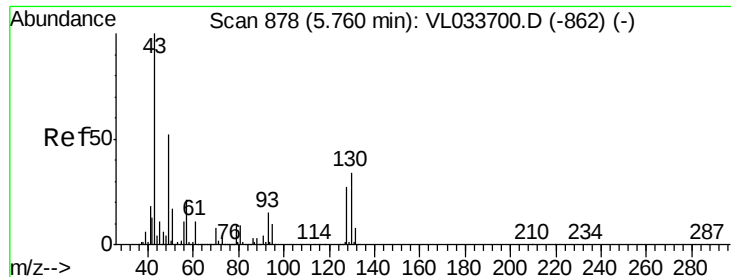
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

S-02

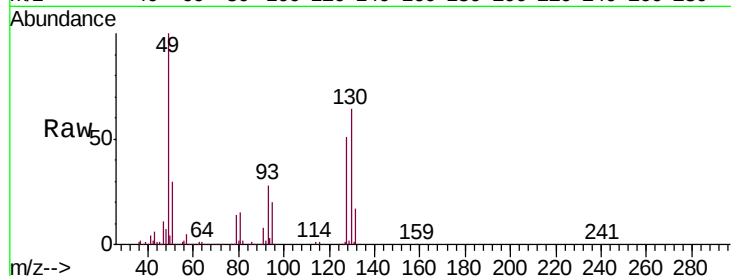
Tgt Ion: 49 Resp: 1027936

Ion Ratio Lower Upper

49 100

128 52.1 25.2 75.6

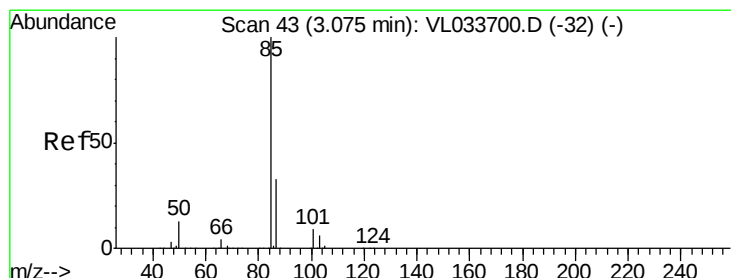
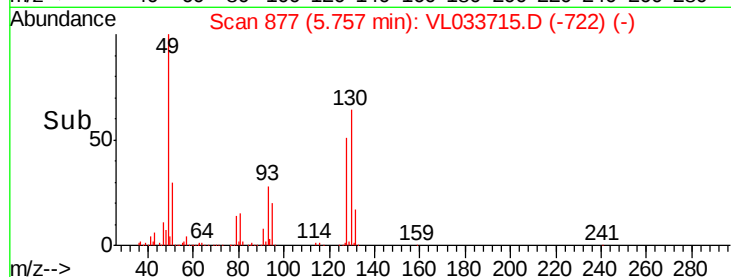
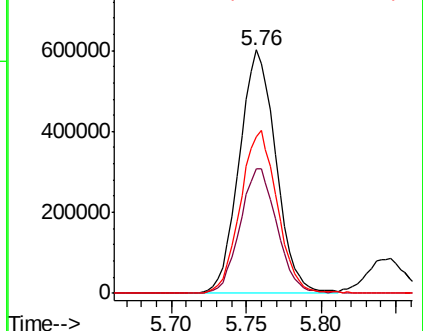
130 67.7 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.210 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033715.D

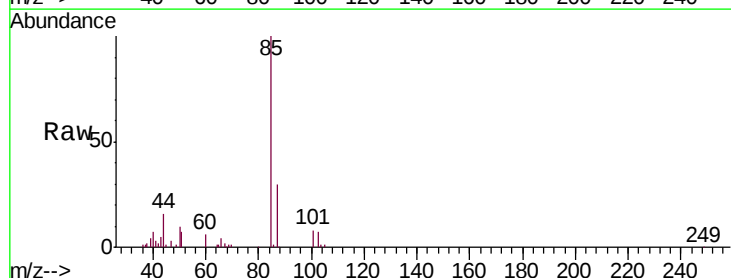
Acq: 17 May 2019 14:04

Tgt Ion: 85 Resp: 45416

Ion Ratio Lower Upper

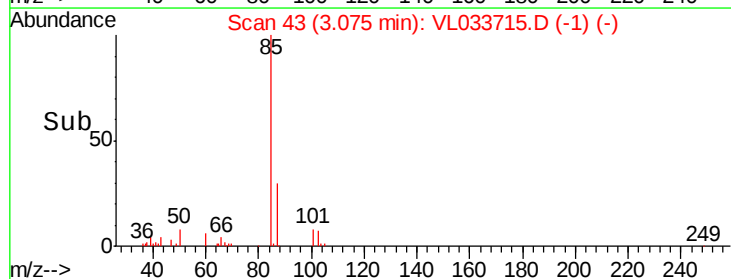
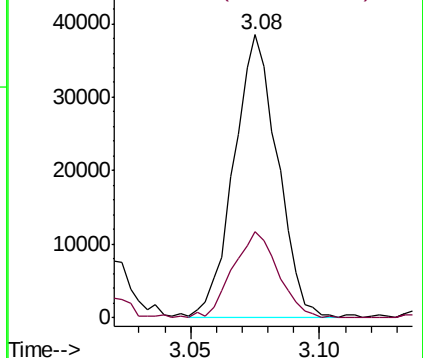
85 100

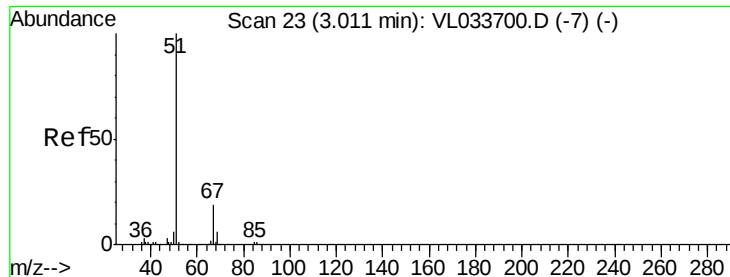
87 30.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

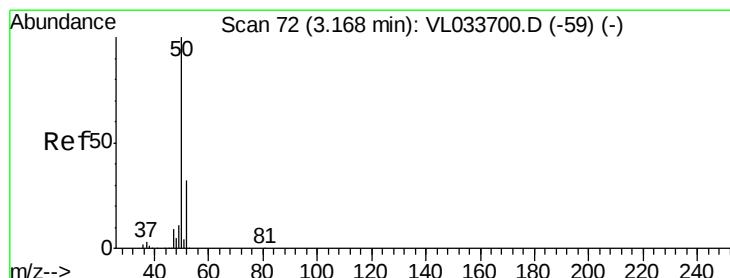
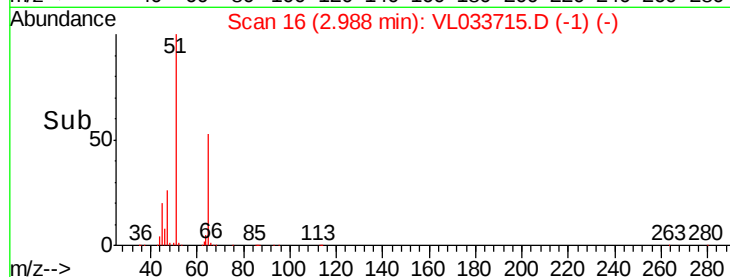
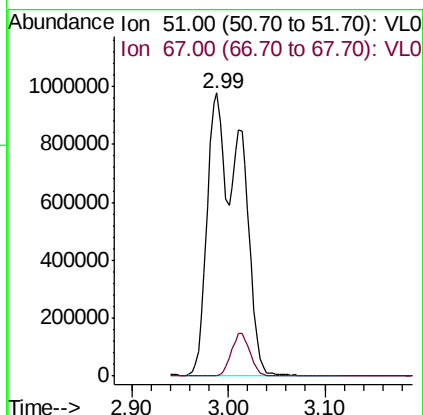
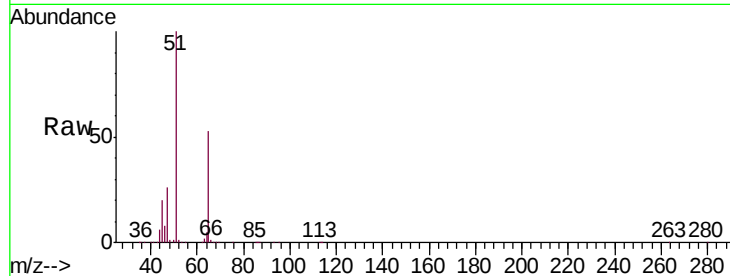




#3
Chlorodifluoromethane
Concen: 19.894 ppbv
RT: 2.99 min Scan# 16
Delta R.T. -0.02 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

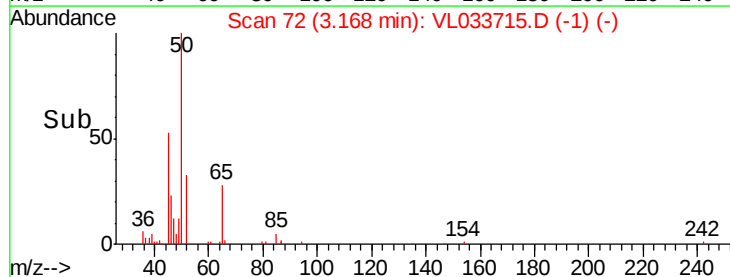
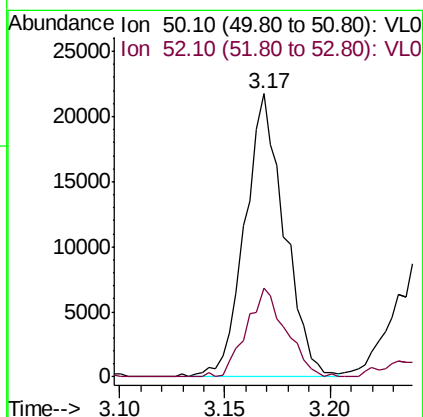
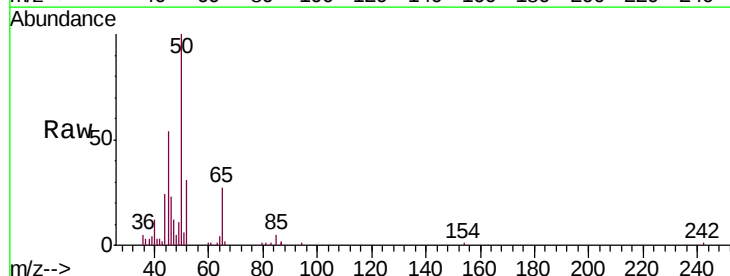
Instrument :
MSVOA_L
ClientSampleId :
S-02

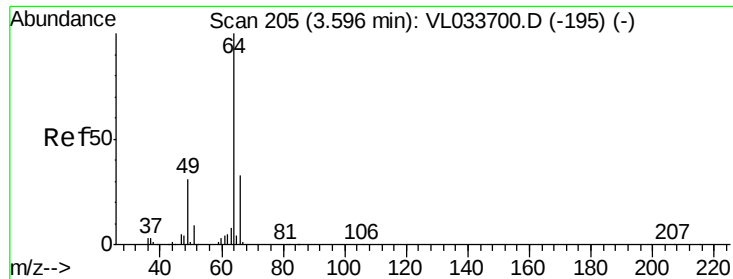
Tgt Ion: 51 Resp: 2342484
Ion Ratio Lower Upper
51 100
67 8.5 15.6 23.4#



#4
Chloromethane
Concen: 0.420 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion: 50 Resp: 28282
Ion Ratio Lower Upper
50 100
52 31.5 25.7 38.5





#7

Chloroethane

Concen: 0.053 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

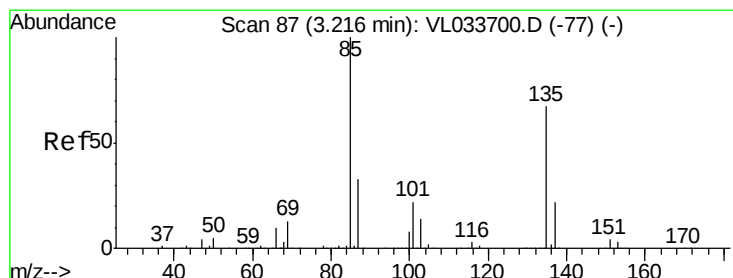
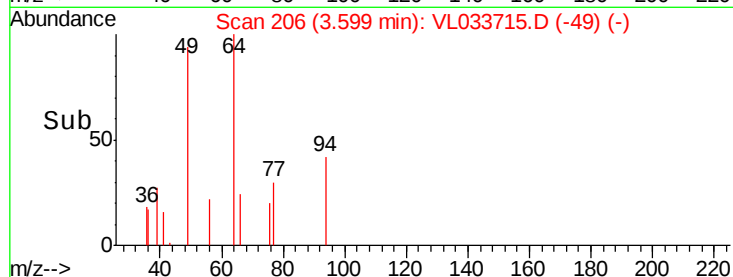
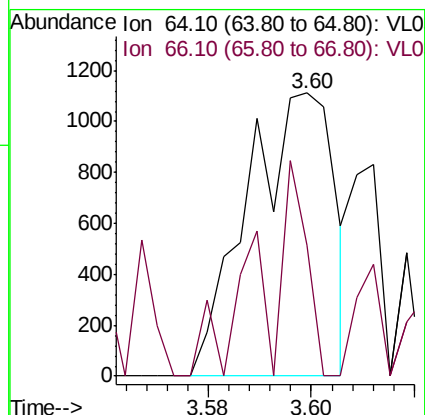
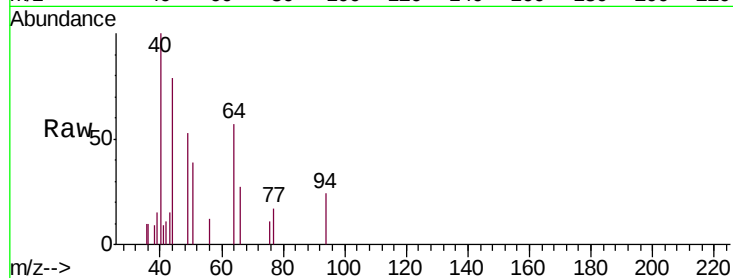
S-02

Tgt Ion: 64 Resp: 1289

Ion Ratio Lower Upper

64 100

66 46.5 26.6 40.0#



#8

Dichlorotetrafluoroethane

Concen: 0.018 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033715.D

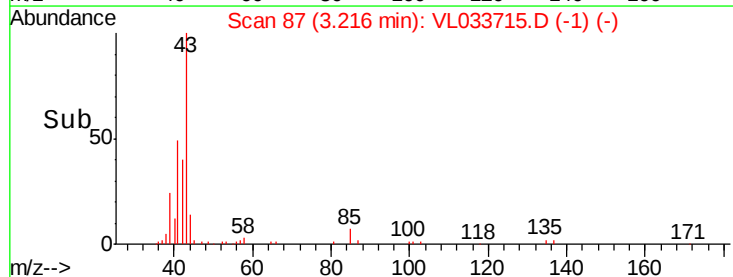
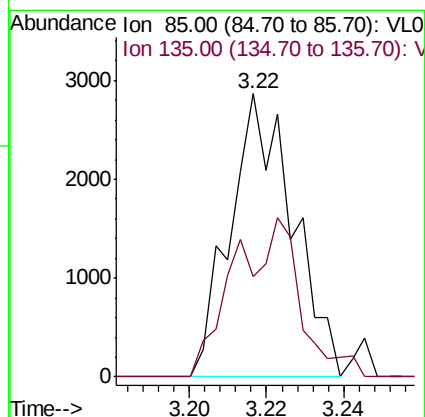
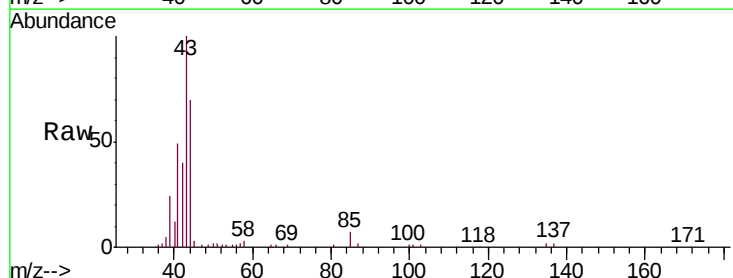
Acq: 17 May 2019 14:04

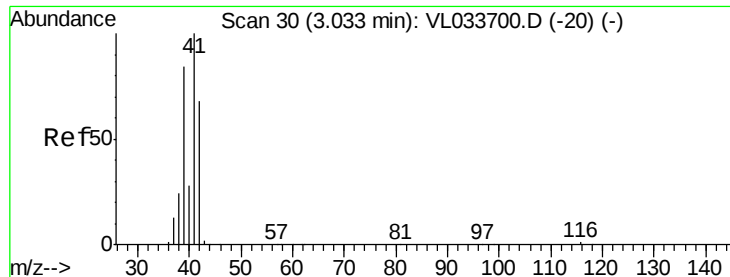
Tgt Ion: 85 Resp: 3220

Ion Ratio Lower Upper

85 100

135 59.2 54.5 81.7





#9

Propene

Concen: 7.761 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

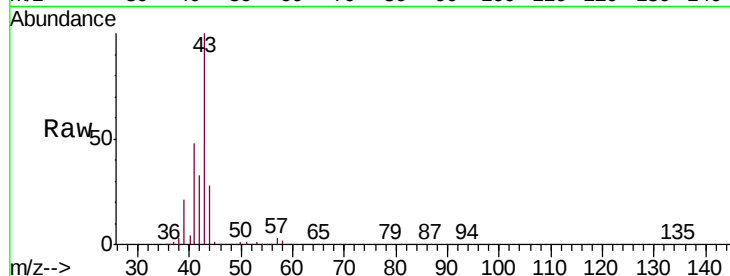
S-02

Tgt Ion: 41 Resp: 388666

Ion Ratio Lower Upper

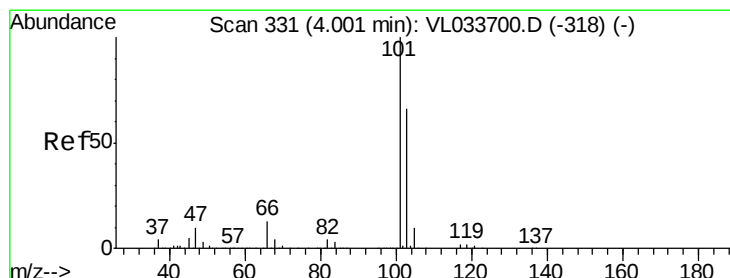
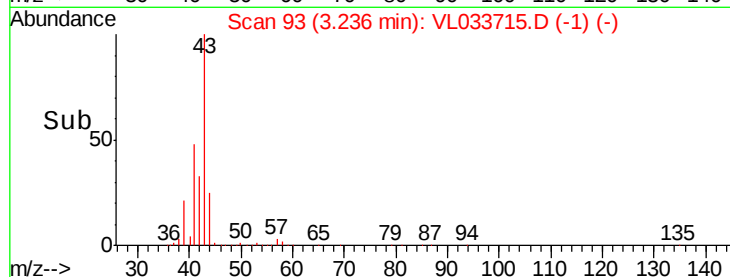
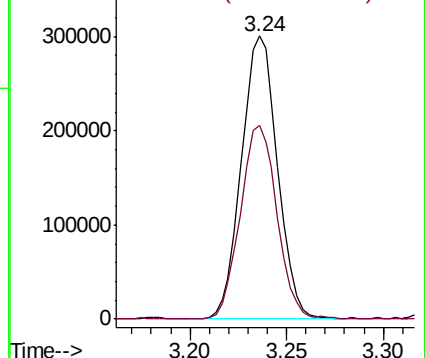
41 100

42 70.8 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 2.176 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL033715.D

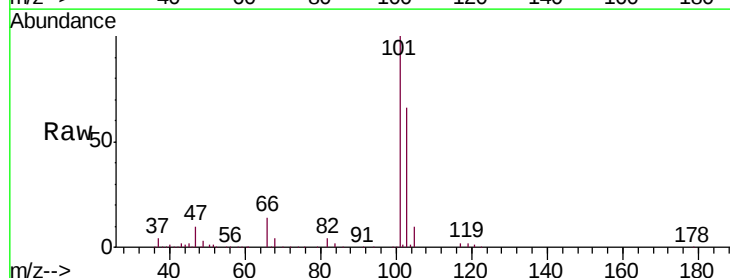
Acq: 17 May 2019 14:04

Tgt Ion: 101 Resp: 449997

Ion Ratio Lower Upper

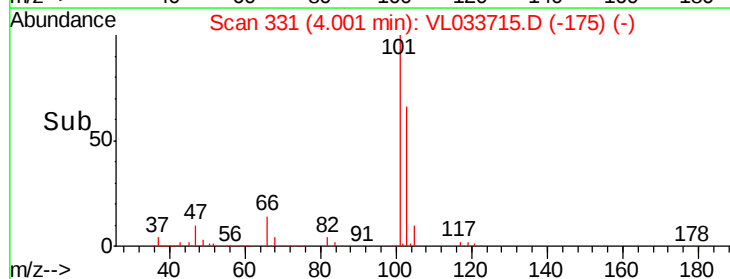
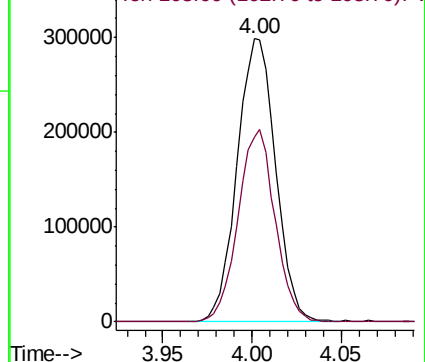
101 100

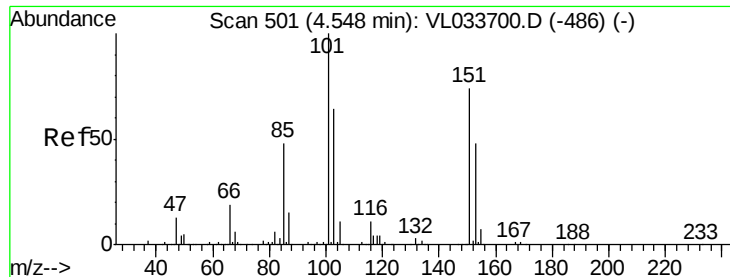
103 65.4 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

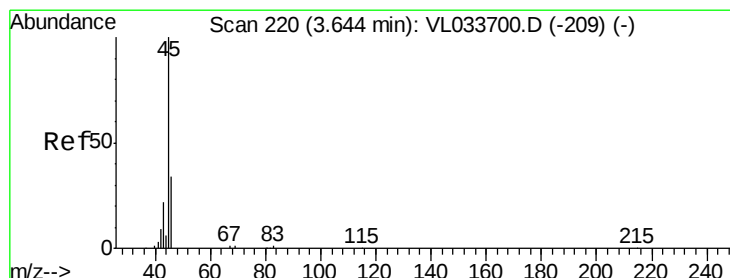
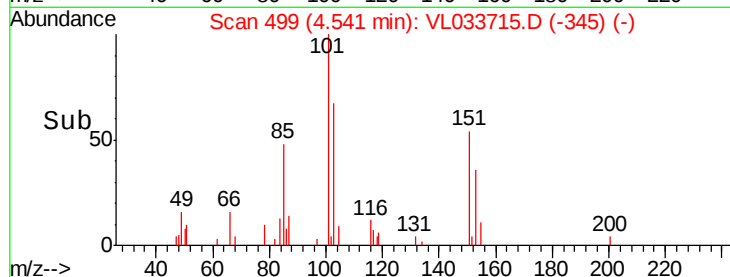
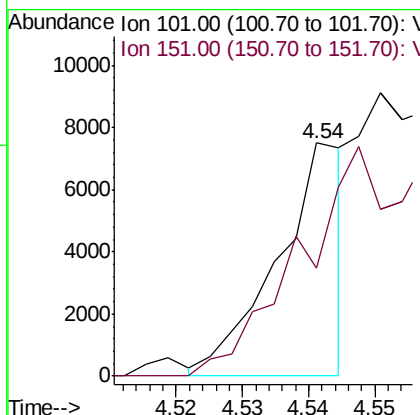
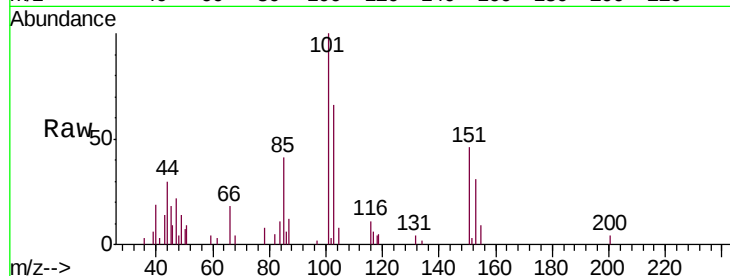




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.036 ppbv
 RT: 4.54 min Scan# 499
 Delta R.T. -0.01 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

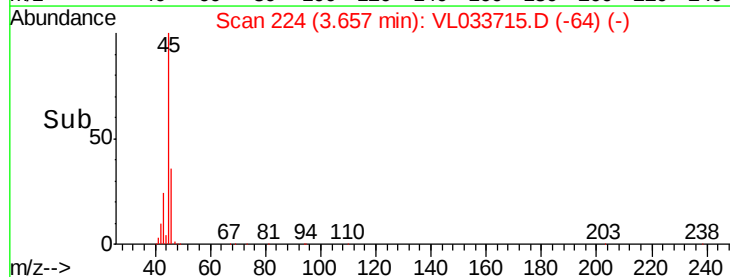
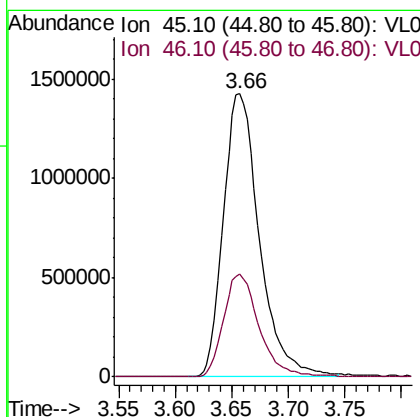
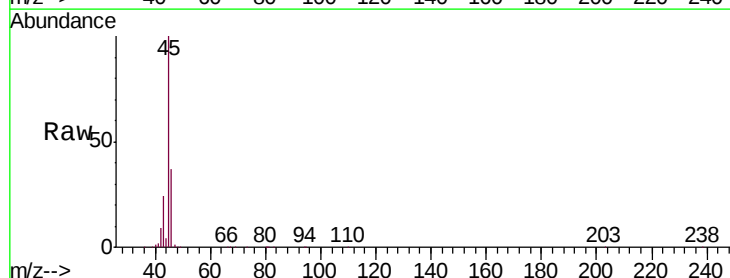
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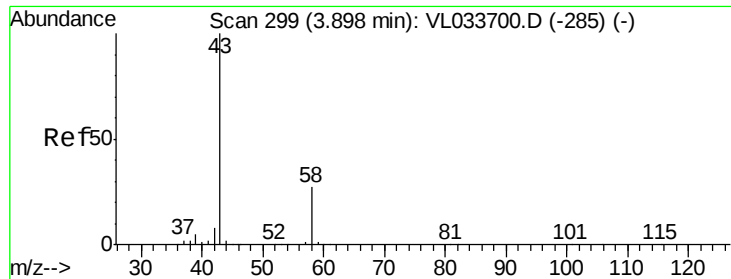
Tgt Ion: 101 Resp: 5255
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.2 87.4#



#13
 Ethanol
 Concen: 195.475 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. 0.01 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Tgt Ion: 45 Resp: 3164206
 Ion Ratio Lower Upper
 45 100
 46 36.2 14.8 59.0





#15

Acetone

Concen: 11.060 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

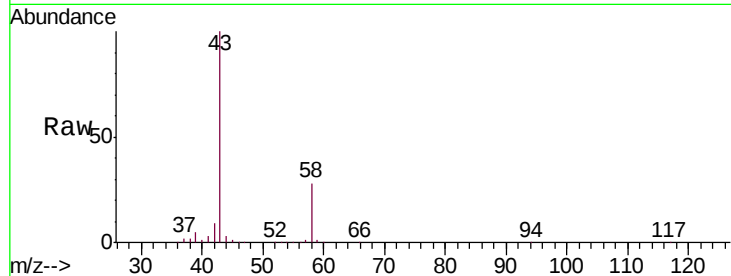
S-02

Tgt Ion: 43 Resp: 1577453

Ion Ratio Lower Upper

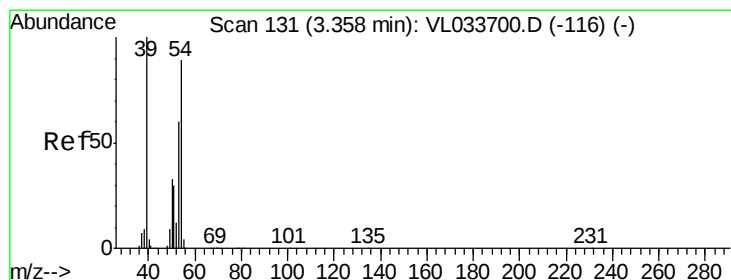
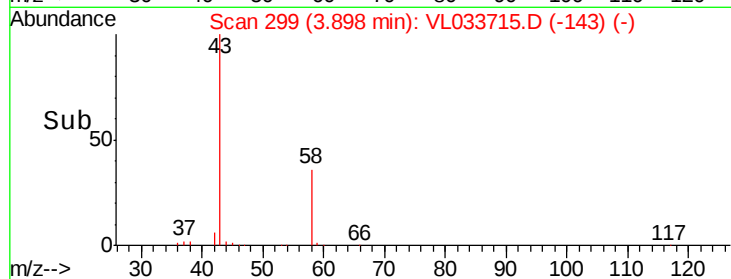
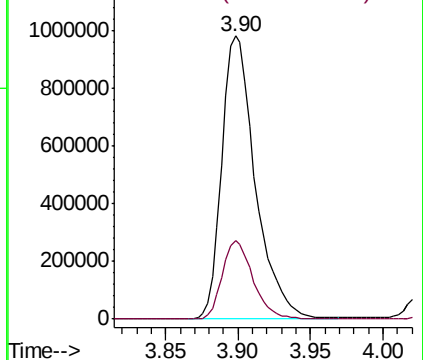
43 100

58 25.7 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 1.624 ppbv

RT: 3.34 min Scan# 124

Delta R.T. -0.02 min

Lab File: VL033715.D

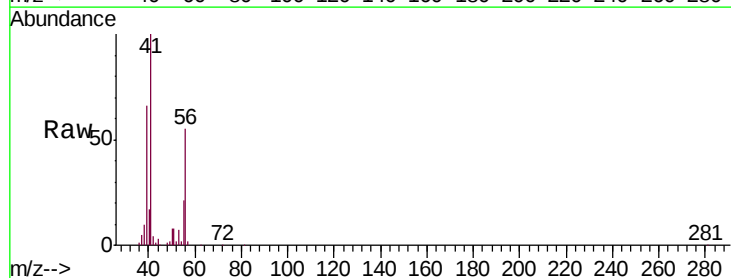
Acq: 17 May 2019 14:04

Tgt Ion: 39 Resp: 92210

Ion Ratio Lower Upper

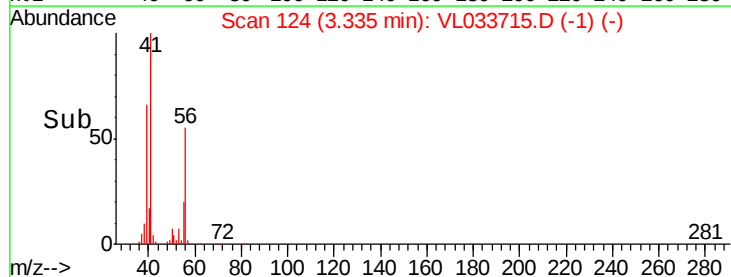
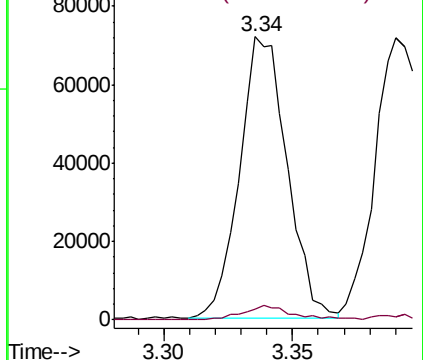
39 100

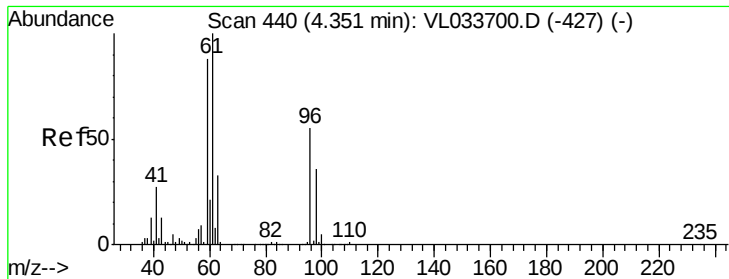
54 5.2 69.0 103.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



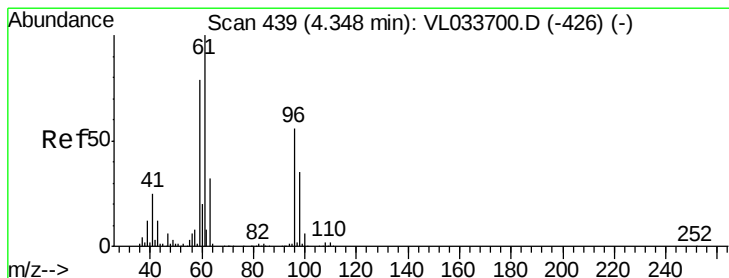
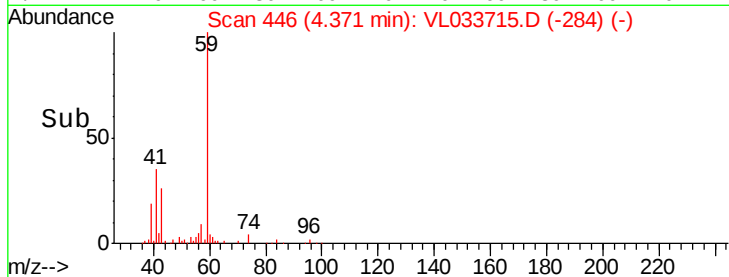
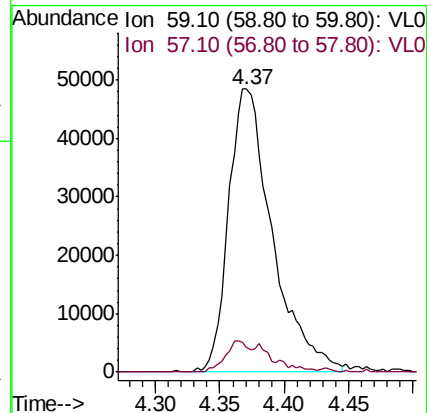
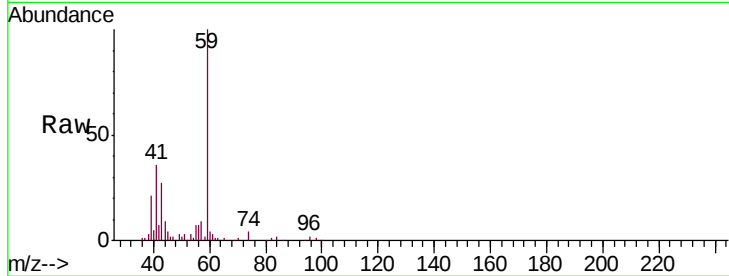


#17

tert-Butyl alcohol
 Concen: 0.992 ppbv
 RT: 4.37 min Scan# 446
 Delta R.T. 0.02 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Instrument :
 MSVOA_L
 ClientSampled :
 S-02

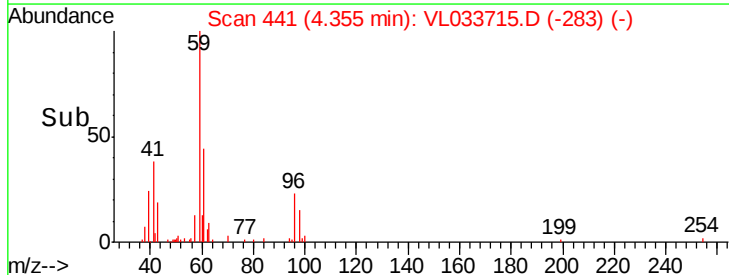
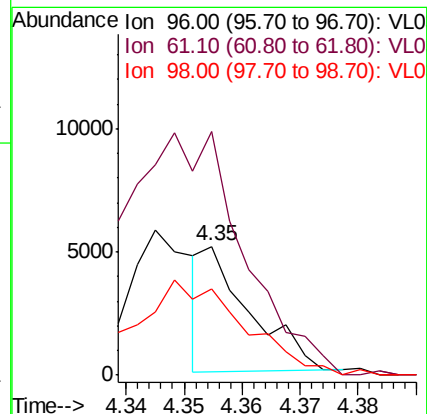
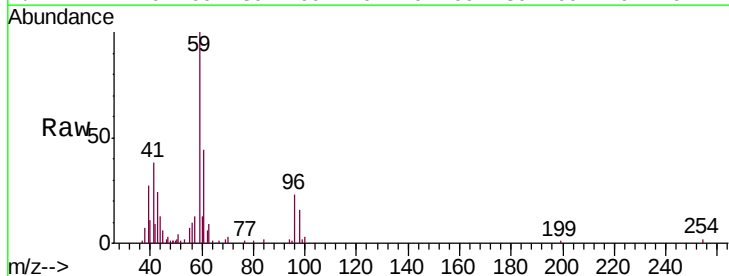
Tgt Ion: 59 Resp: 114397
 Ion Ratio Lower Upper
 59 100
 57 11.3 8.4 12.6

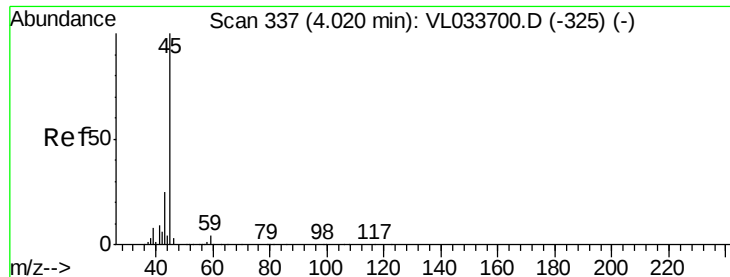


#18

1,1-Dichloroethene
 Concen: 0.047 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. 0.01 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Tgt Ion: 96 Resp: 2839
 Ion Ratio Lower Upper
 96 100
 61 197.5 143.1 214.7
 98 70.2 49.5 74.3



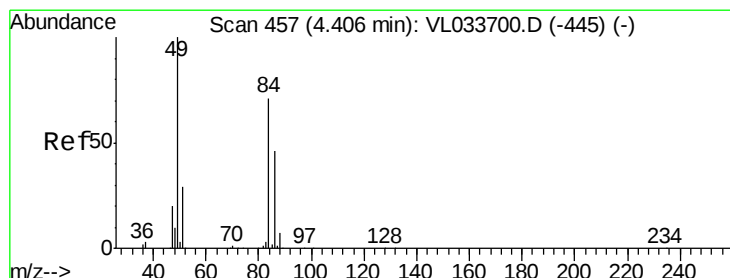
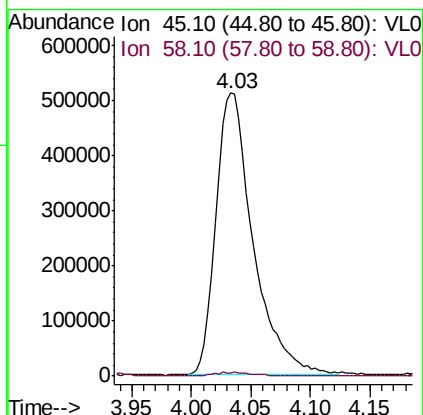
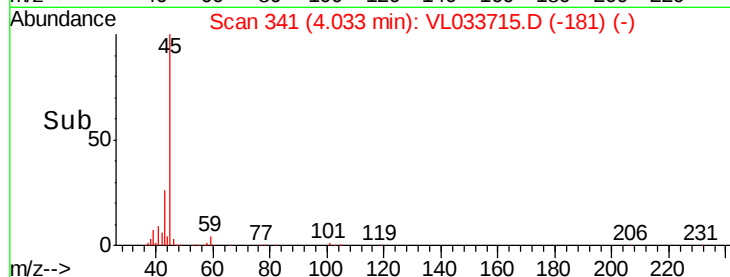
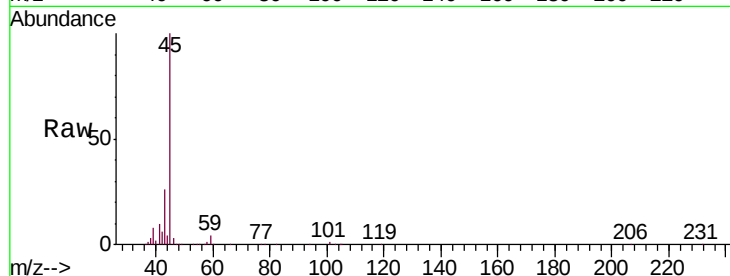


#19

Isopropyl Alcohol
 Concen: 12.028 ppbv
 RT: 4.03 min Scan# 341
 Delta R.T. 0.01 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Instrument :
 MSVOA_L
 ClientSampled :
 S-02

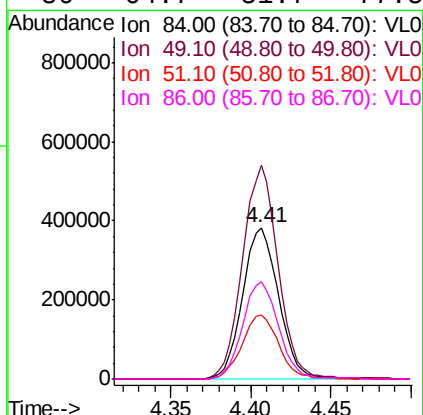
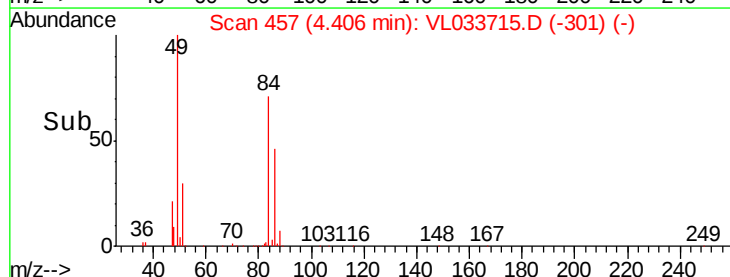
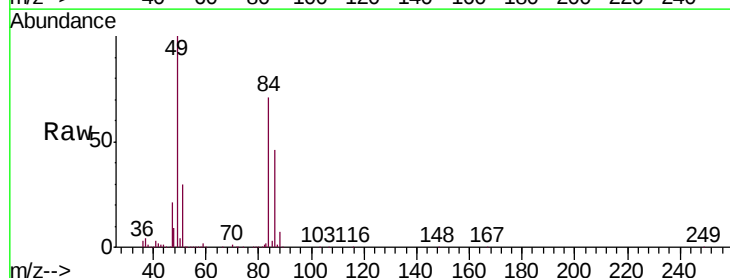
Tgt Ion: 45 Resp: 1106074
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.6 2.4#

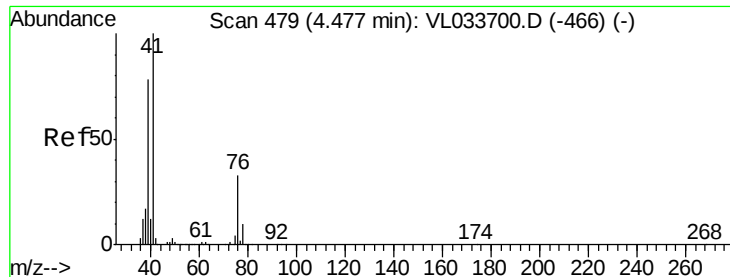


#20

Methylene Chloride
 Concen: 10.657 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Tgt Ion: 84 Resp: 585185
 Ion Ratio Lower Upper
 84 100
 49 141.1 112.8 169.2
 51 42.3 33.4 50.0
 86 64.7 51.7 77.5

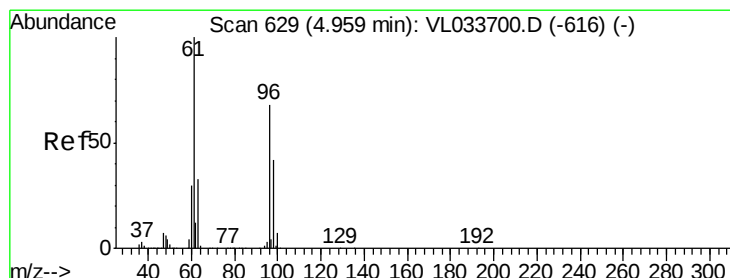
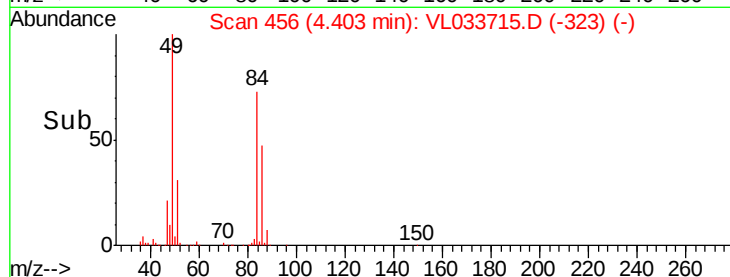
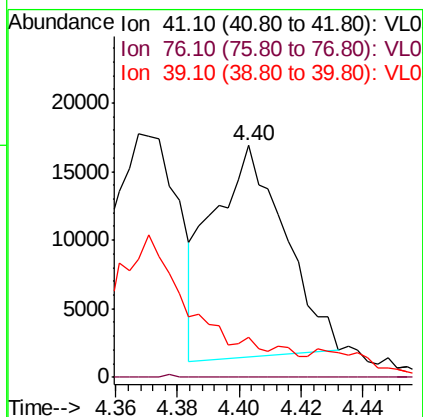
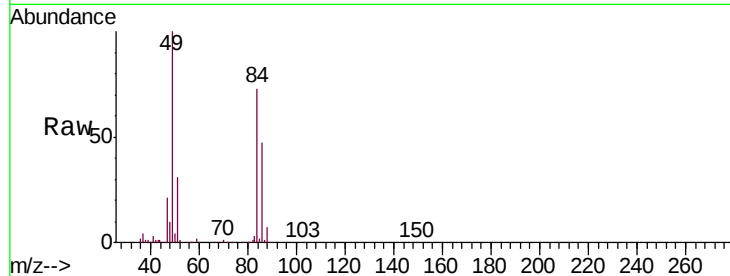




#21
 Allyl Chloride
 Concen: 0.280 ppbv
 RT: 4.40 min Scan# 456
 Delta R.T. -0.07 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

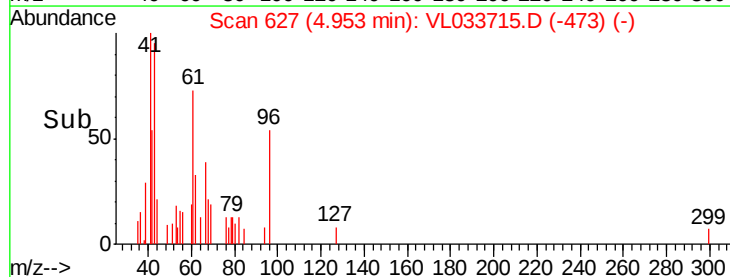
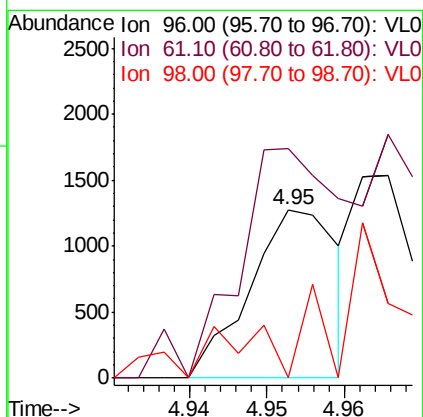
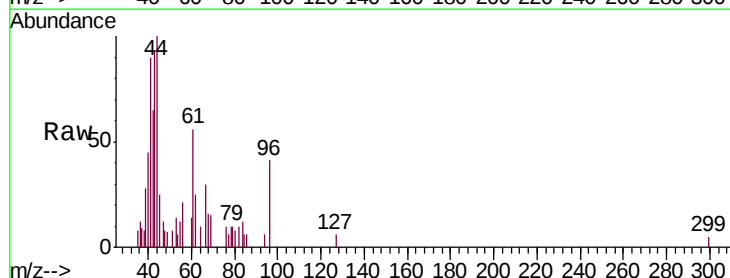
Instrument :
 MSVOA_L
 ClientSampleId :
 S-02

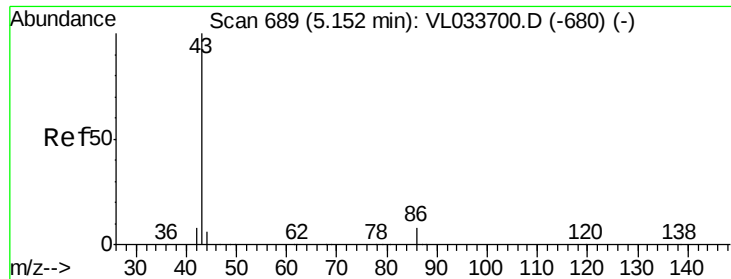
Tgt Ion: 41 Resp: 24949
 Ion Ratio Lower Upper
 41 100
 76 1102.9 25.9 38.9#
 39 0.0 64.6 97.0#



#22
 trans-1,2-Dichloroethene
 Concen: 0.016 ppbv
 RT: 4.95 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Tgt Ion: 96 Resp: 1008
 Ion Ratio Lower Upper
 96 100
 61 136.4 116.8 175.2
 98 0.0 49.4 74.0#





#23

Vinyl Acetate

Concen: 0.223 ppbv

RT: 5.14 min Scan# 684

Delta R.T. -0.02 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

S-02

Tgt Ion: 43 Resp: 41876

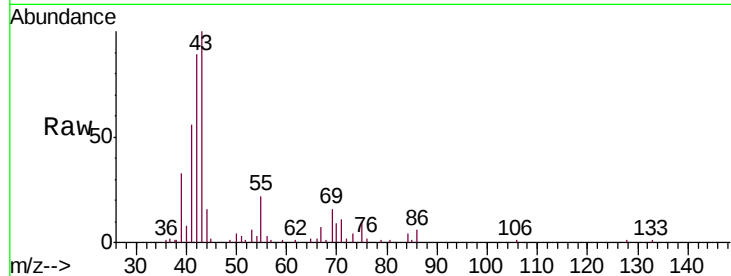
Ion Ratio Lower Upper

43 100

86 5.8 6.0 9.0#

42 89.3 7.5 11.3#

44 9.2 4.4 6.6#

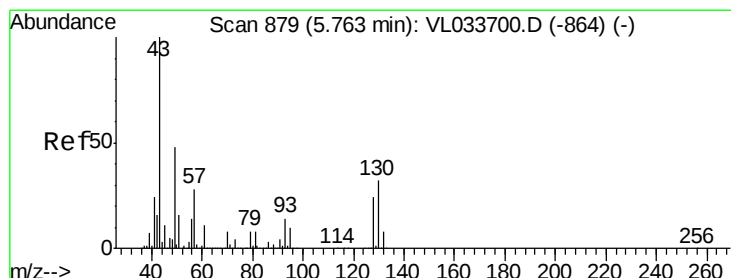
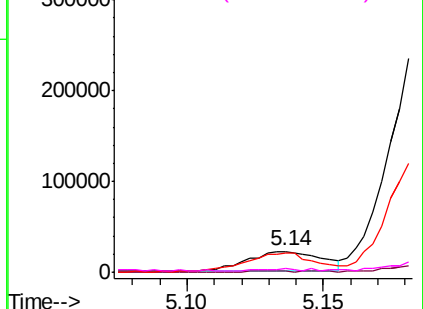
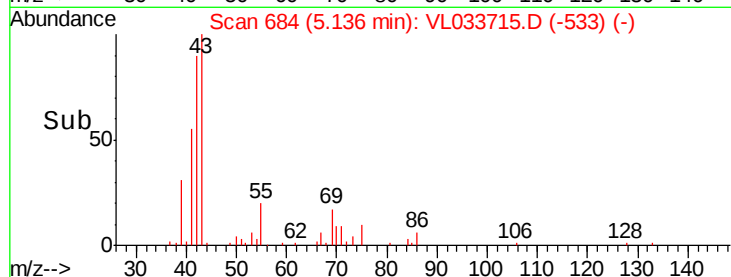


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.789 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Tgt Ion: 43 Resp: 197691

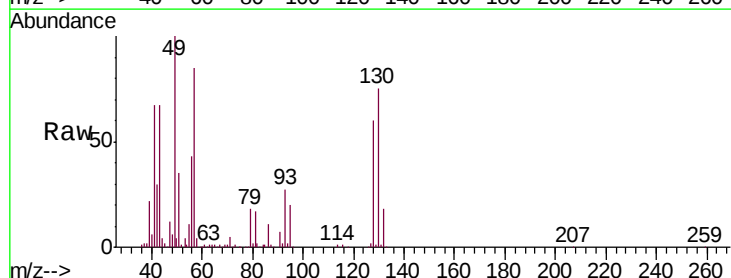
Ion Ratio Lower Upper

43 100

45 7.9 7.9 11.9#

61 3.8 7.7 11.5#

70 3.5 5.8 8.6#

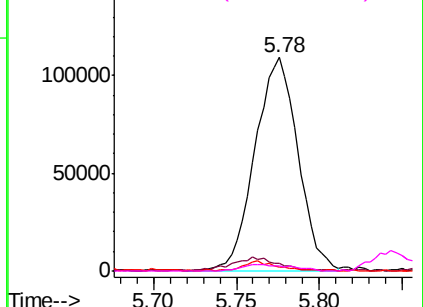
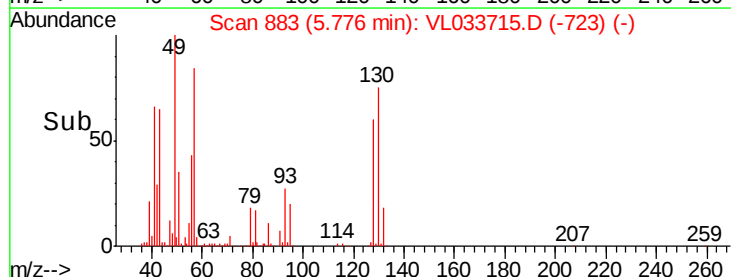


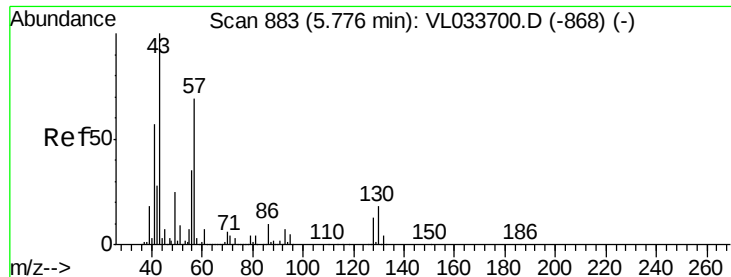
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

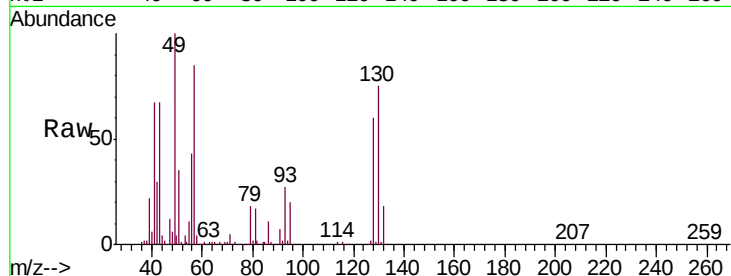




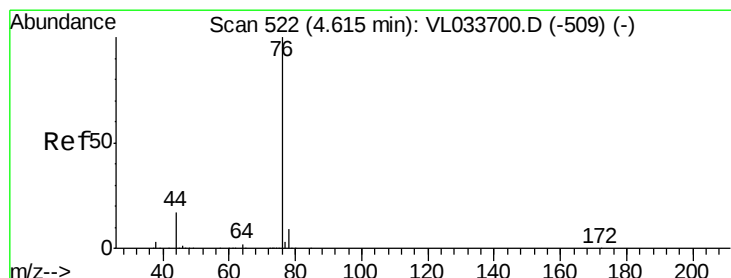
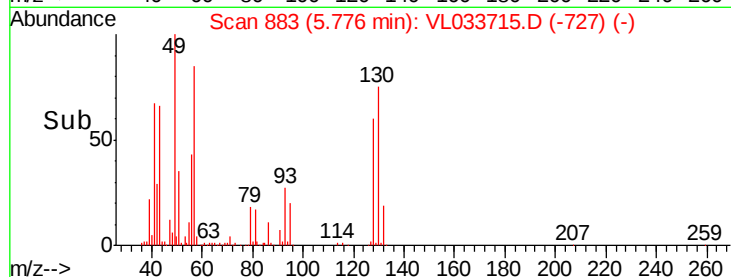
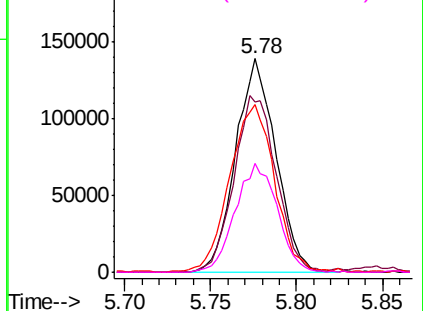
#26
Hexane
Concen: 2.096 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Instrument :
MSVOA_L
ClientSampleId :
S-02

Tgt Ion: 57 Resp: 225722
Ion Ratio Lower Upper
57 100
41 87.0 69.8 104.6
43 89.0 181.8 272.6#
56 53.4 42.1 63.1

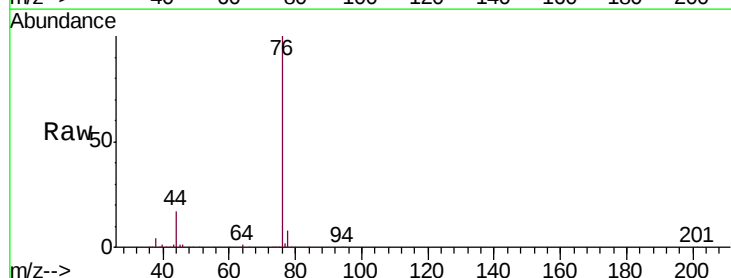


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

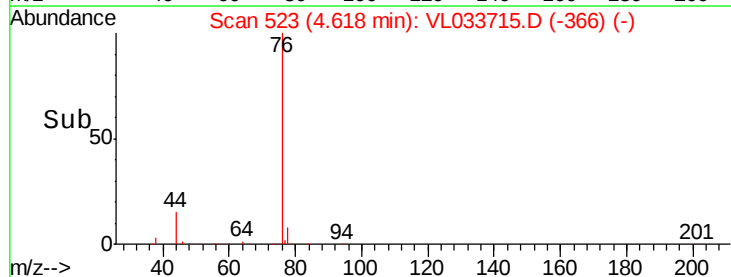
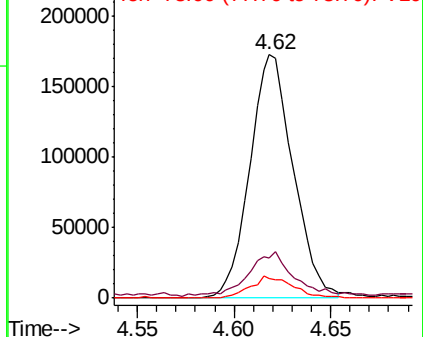


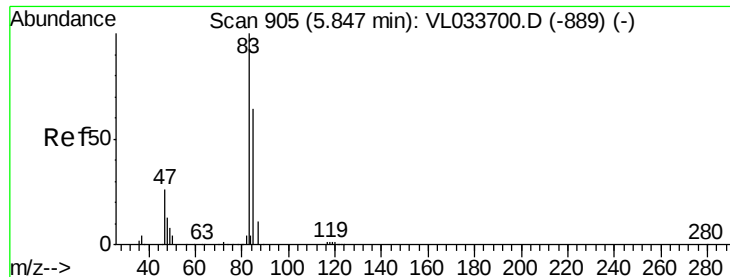
#27
Carbon Disulfide
Concen: 1.819 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion: 76 Resp: 268718
Ion Ratio Lower Upper
76 100
44 18.6 13.8 20.8
78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

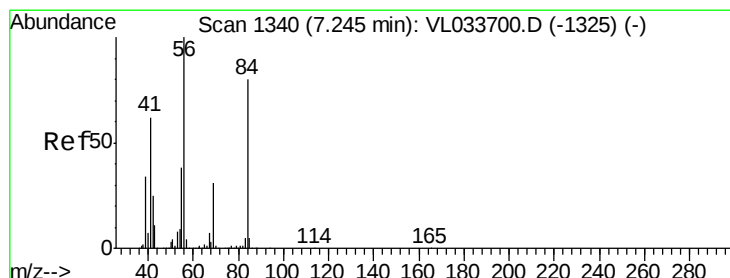
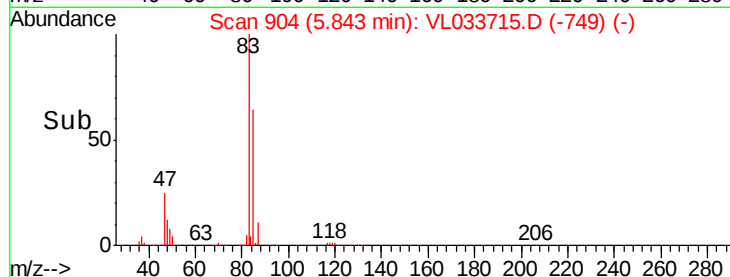
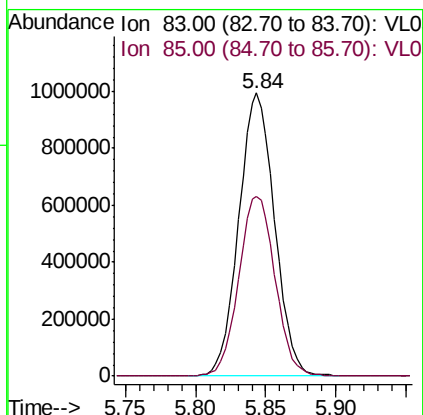
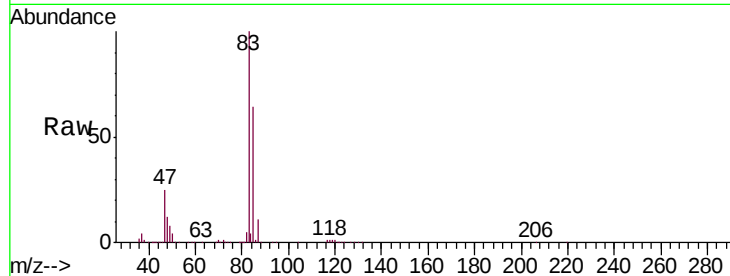




#29
Chloroform
Concen: 8.908 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

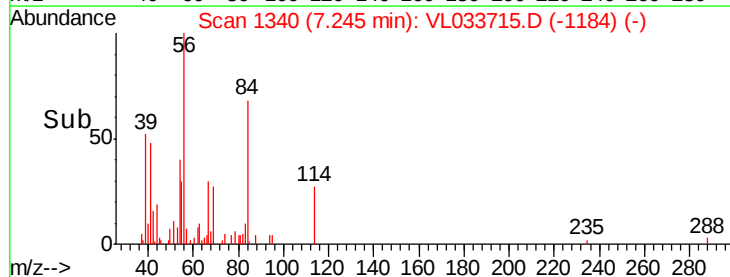
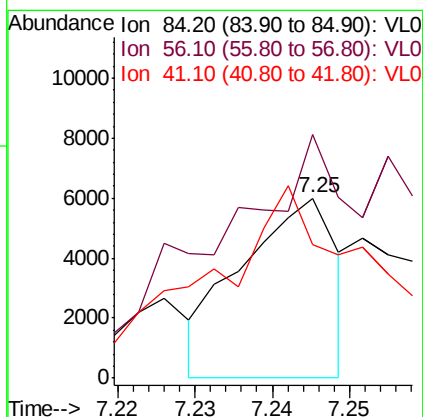
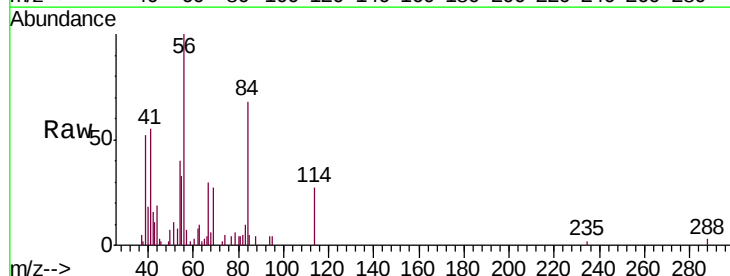
Instrument :
MSVOA_L
ClientSampleId :
S-02

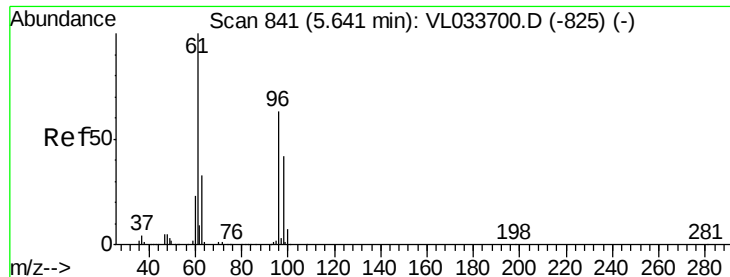
Tgt Ion: 83 Resp: 1767299
Ion Ratio Lower Upper
83 100
85 63.5 51.5 77.3



#30
Cyclohexane
Concen: 0.057 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033715.D
Acq: 17 May 2019 14:04

Tgt Ion: 84 Resp: 5152
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 222.1 66.0 99.0#





#31

cis-1,2-Dichloroethene

Concen: 1.374 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

S-02

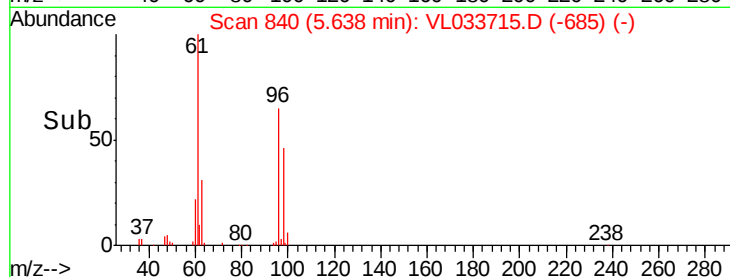
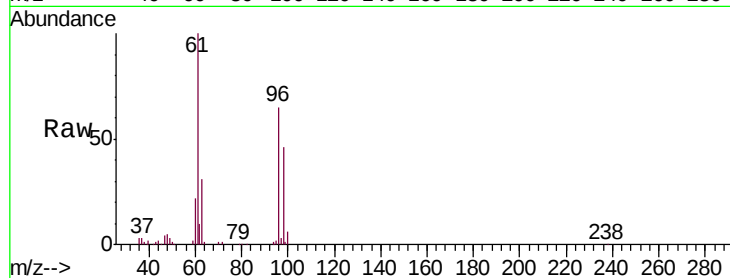
Tgt Ion: 61 Resp: 146769

Ion Ratio Lower Upper

61 100

96 64.8 50.8 76.2

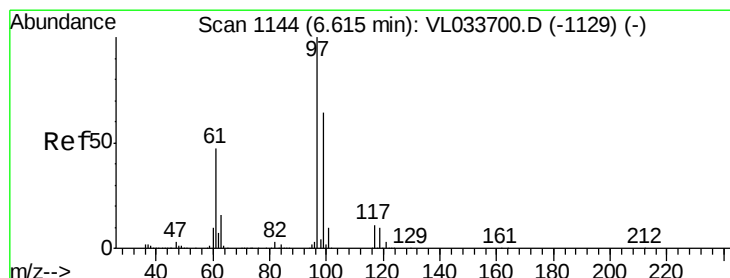
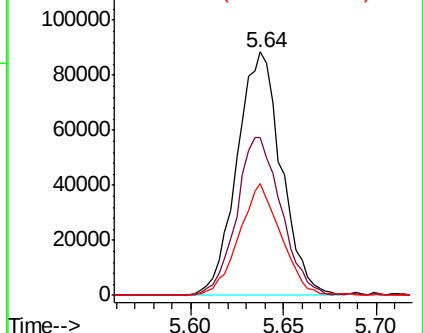
98 46.1 33.3 49.9



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: 0.088 ppbv

RT: 6.61 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

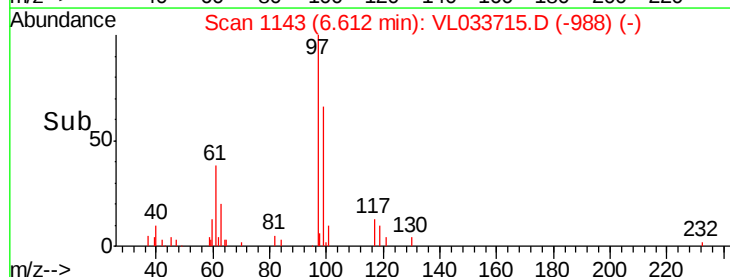
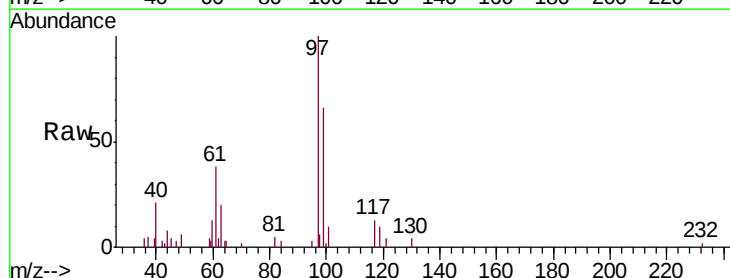
Tgt Ion: 97 Resp: 17352

Ion Ratio Lower Upper

97 100

99 62.9 51.5 77.3

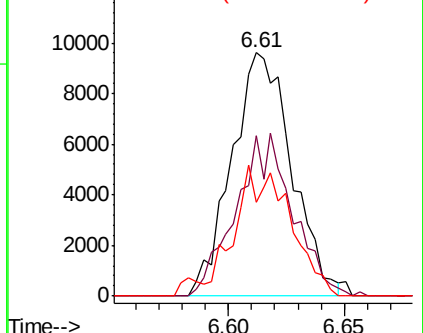
61 51.3 37.8 56.8

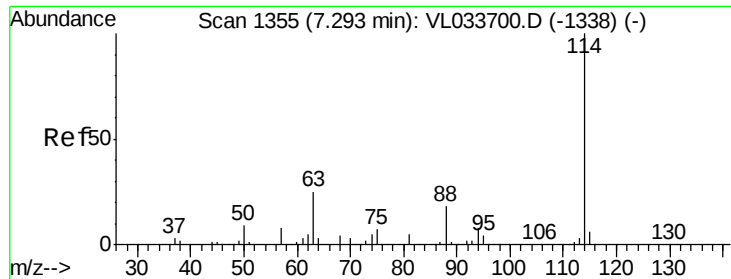


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

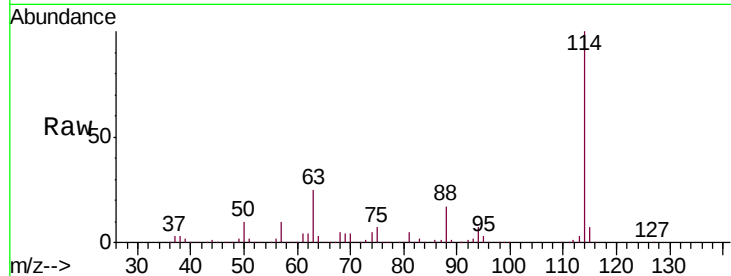




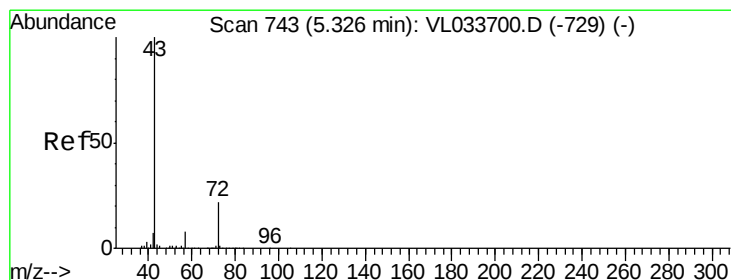
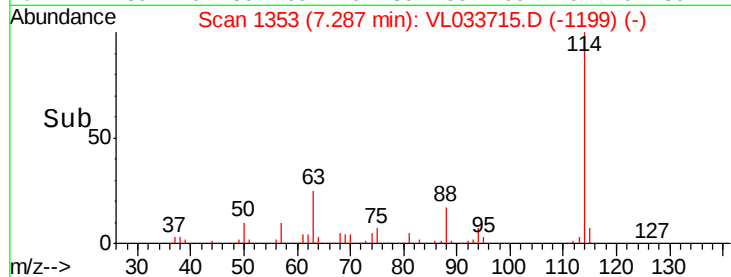
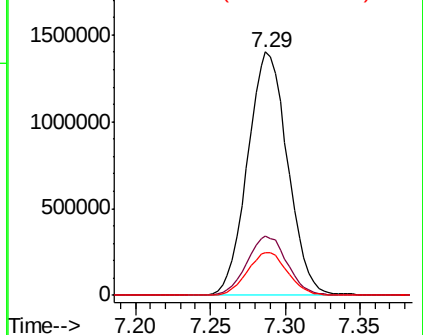
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Instrument :
 MSVOA_L
 ClientSampleId :
 S-02

Tgt Ion:114 Resp: 2615096
 Ion Ratio Lower Upper
 114 100
 63 24.4 20.9 31.3
 88 17.6 14.3 21.5

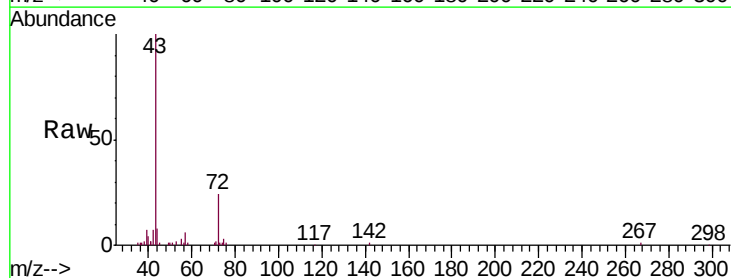


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

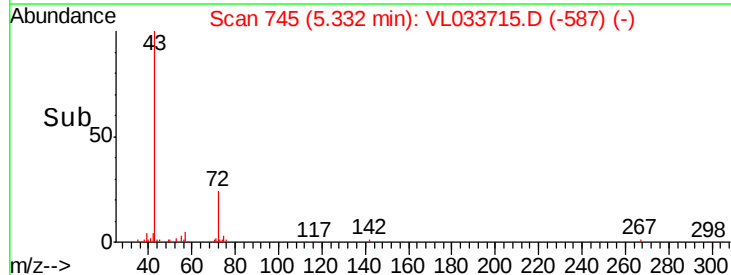
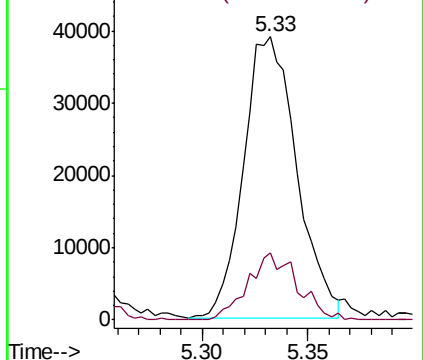


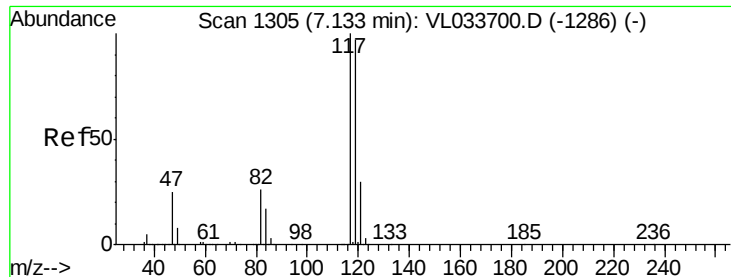
#34
 2-Butanone
 Concen: 0.419 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033715.D
 Acq: 17 May 2019 14:04

Tgt Ion: 43 Resp: 67863
 Ion Ratio Lower Upper
 43 100
 72 22.1 17.8 26.6



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





#35

Carbon Tetrachloride

Concen: 0.049 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampled :

S-02

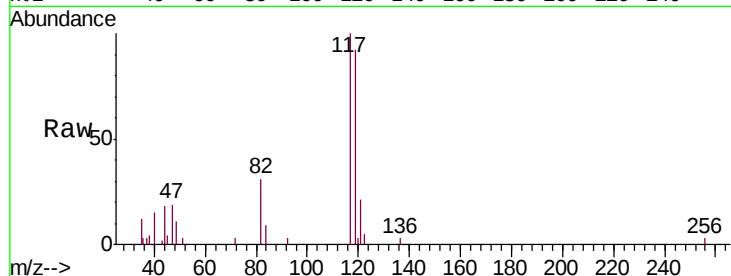
Tgt Ion: 117 Resp: 10201

Ion Ratio Lower Upper

117 100

119 90.0 77.2 115.8

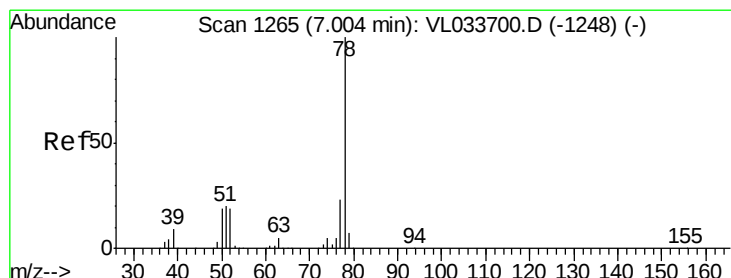
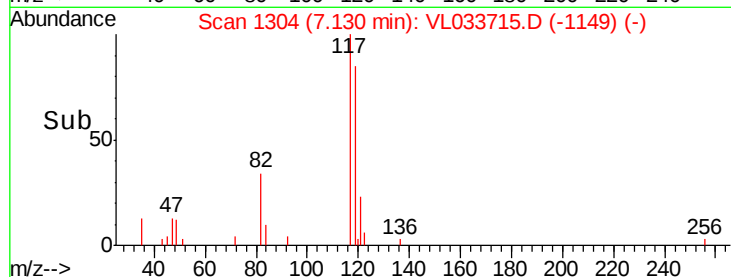
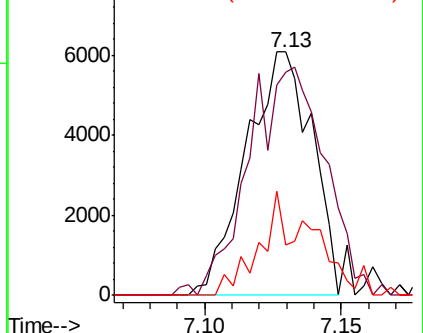
121 20.7 24.1 36.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.090 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

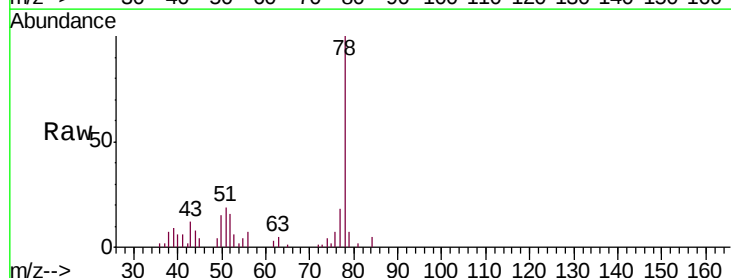
Tgt Ion: 78 Resp: 21378

Ion Ratio Lower Upper

78 100

77 18.3 18.4 27.6#

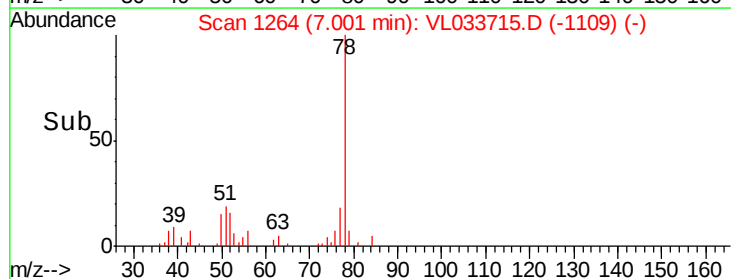
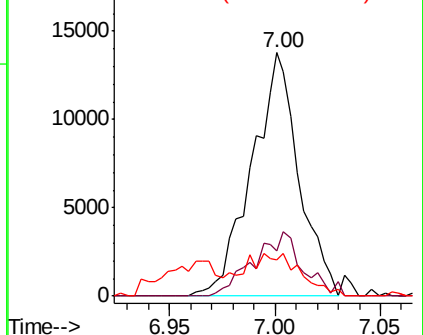
50 12.1 15.5 23.3#

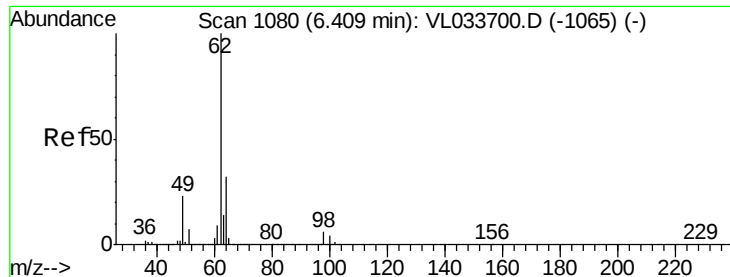


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.014 ppbv

RT: 6.40 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampled :

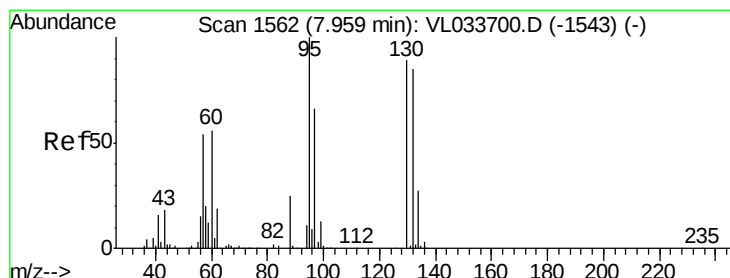
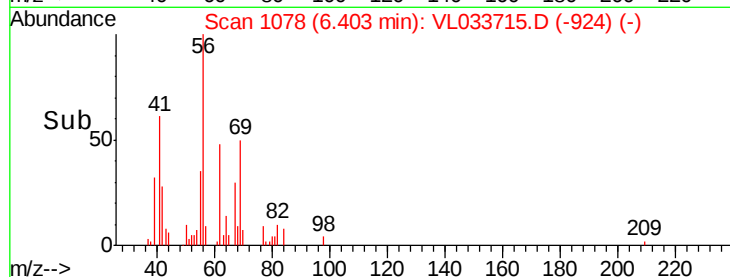
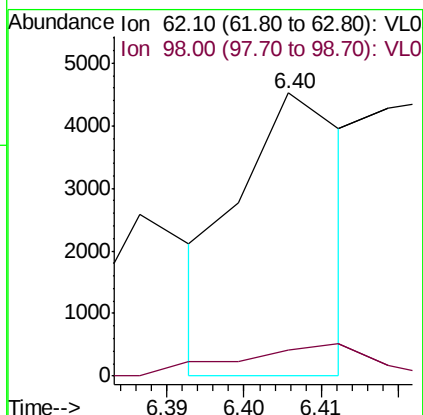
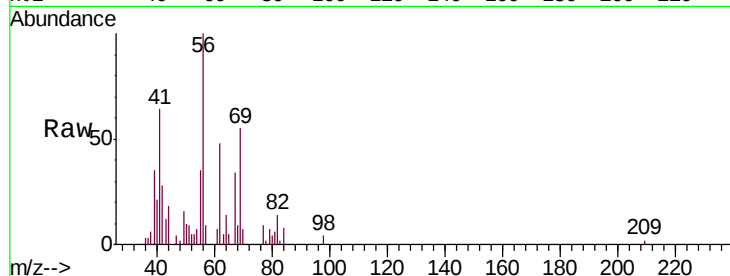
S-02

Tgt Ion: 62 Resp: 2171

Ion Ratio Lower Upper

62 100

98 0.0 4.5 6.7#



#38

Trichloroethene

Concen: 6.445 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Tgt Ion: 130 Resp: 568862

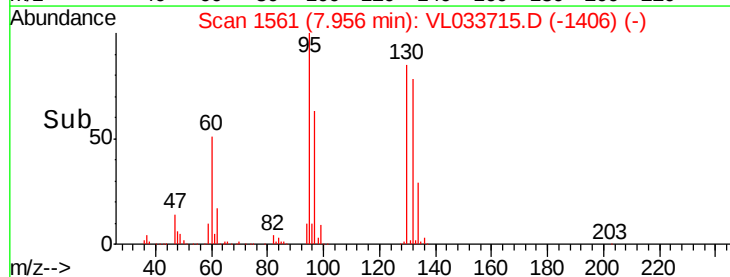
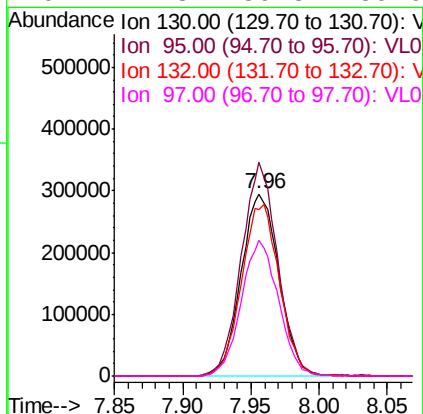
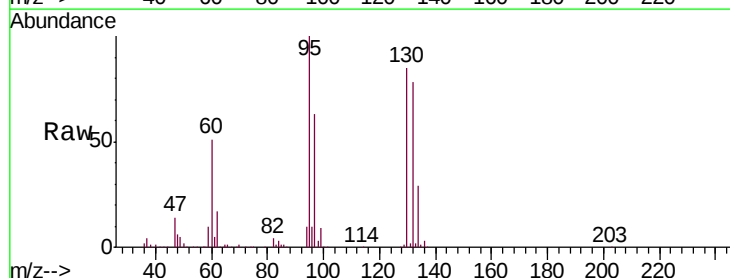
Ion Ratio Lower Upper

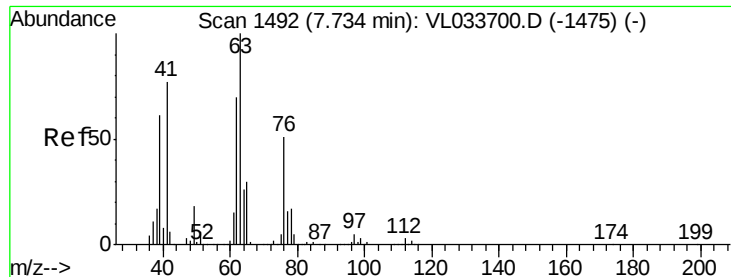
130 100

95 117.3 90.2 135.4

132 90.9 76.4 114.6

97 74.3 59.8 89.6





#39

1,2-Dichloropropane

Concen: 7.175 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

S-02

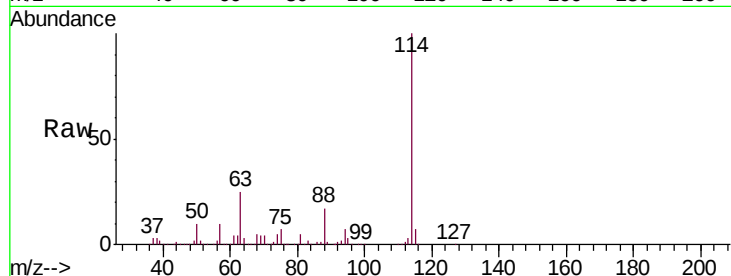
Tgt Ion: 63 Resp: 636383

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

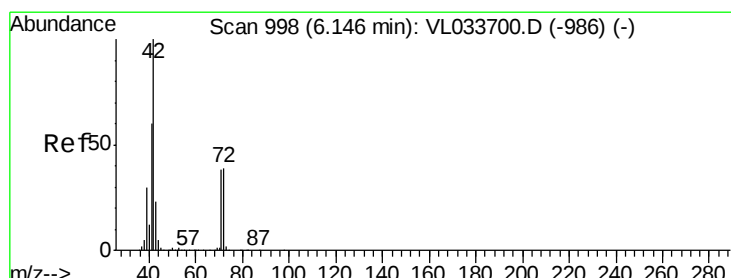
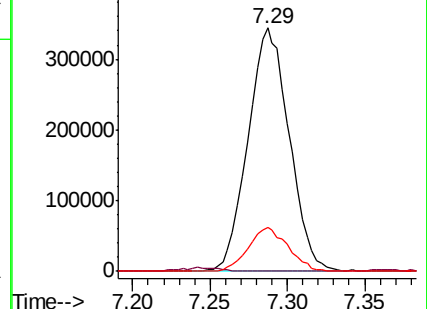
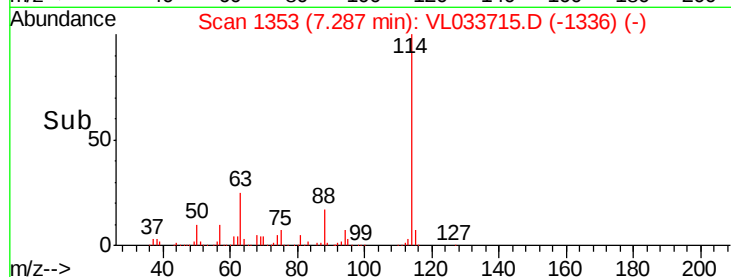
62 17.8 56.2 84.4#



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: 0.034 ppbv

RT: 6.16 min Scan# 1003

Delta R.T. 0.02 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

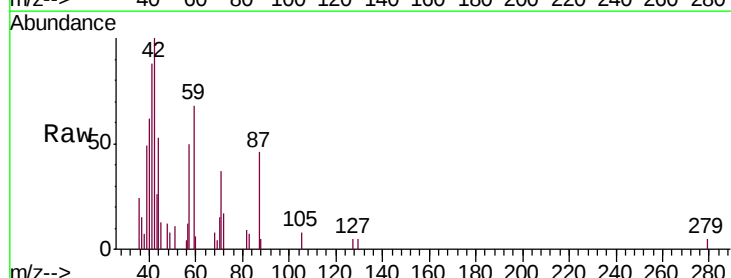
Tgt Ion: 42 Resp: 3054

Ion Ratio Lower Upper

42 100

72 67.4 32.0 48.0#

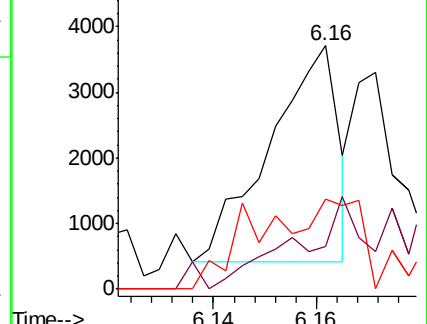
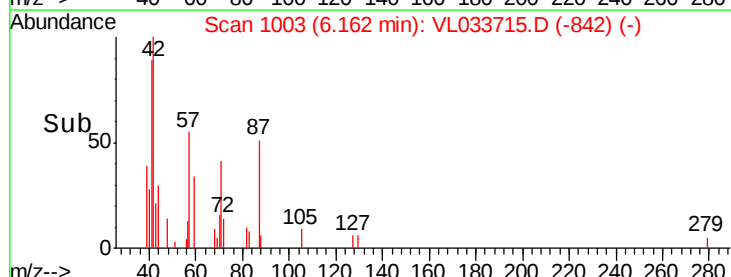
71 78.8 30.4 45.6#

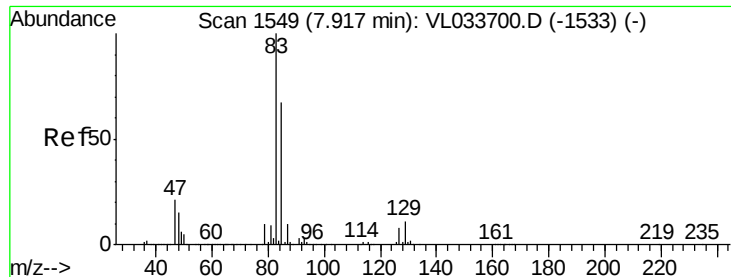


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.447 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

S-02

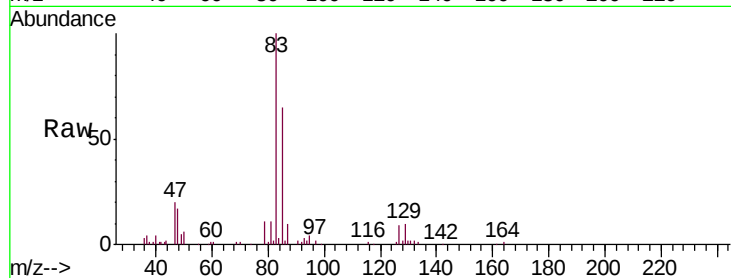
Tgt Ion: 83 Resp: 93939

Ion Ratio Lower Upper

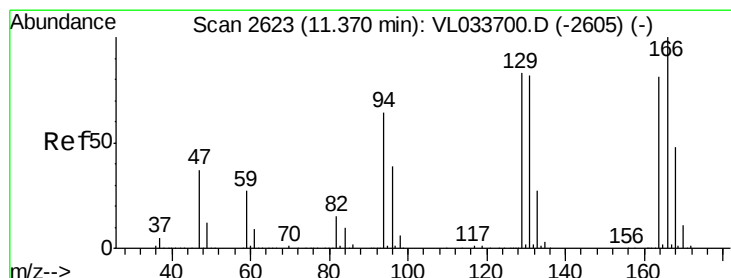
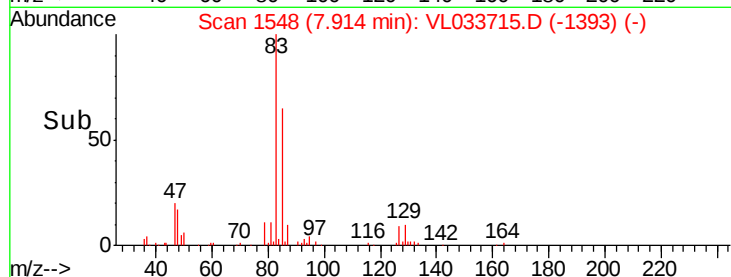
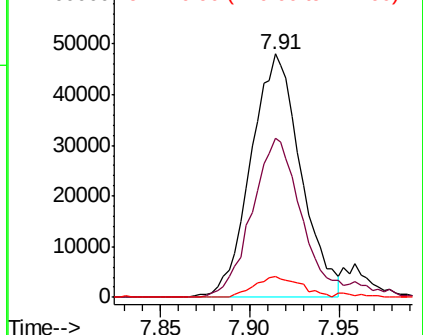
83 100

85 65.3 53.3 79.9

127 8.7 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): V



#52

Tetrachloroethene

Concen: 0.163 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. 0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Tgt Ion: 164 Resp: 13626

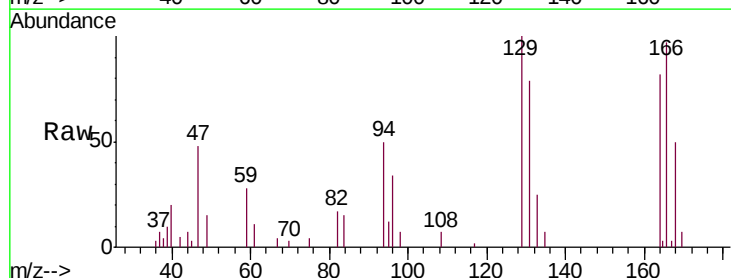
Ion Ratio Lower Upper

164 100

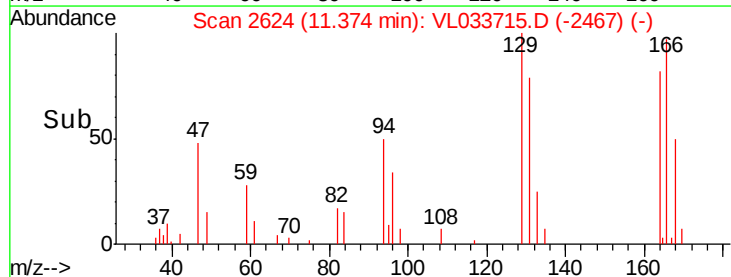
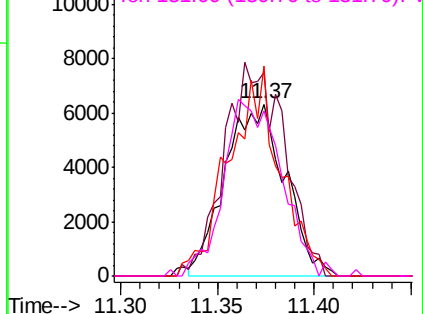
166 118.3 98.9 148.3

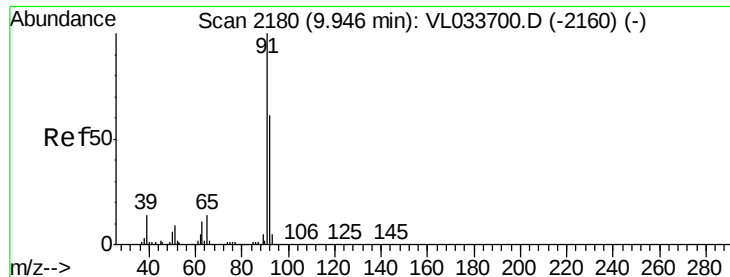
129 122.6 81.8 122.6

131 96.4 81.1 121.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.339 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

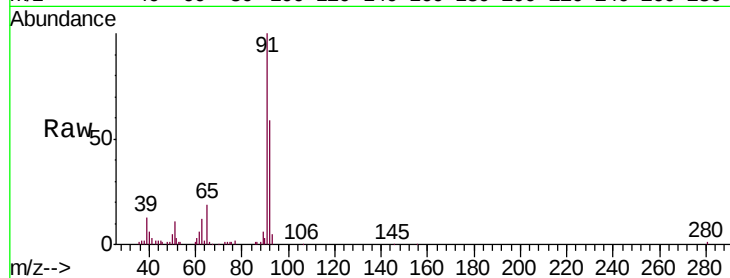
S-02

Tgt Ion: 91 Resp: 87046

Ion Ratio Lower Upper

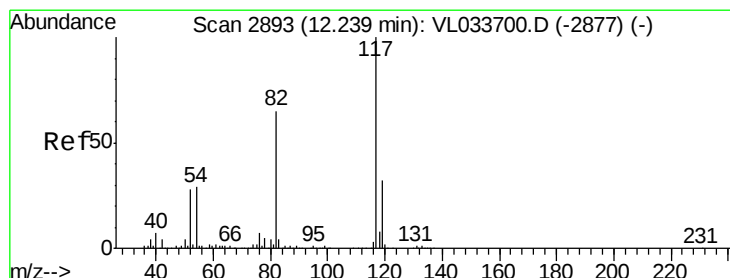
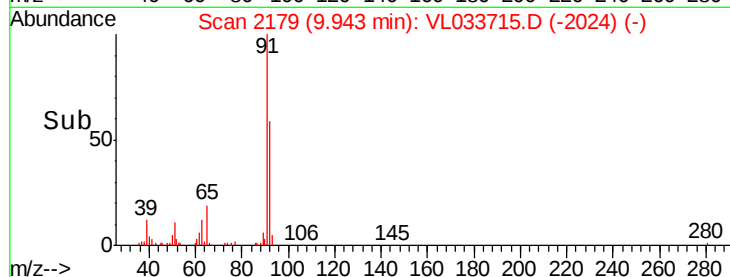
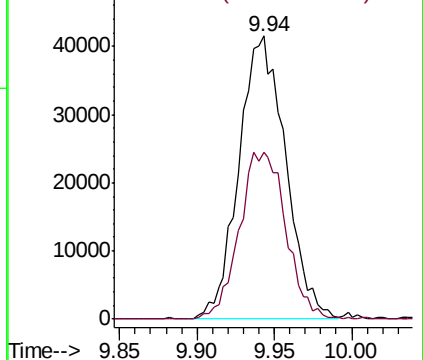
91 100

92 58.9 47.6 71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

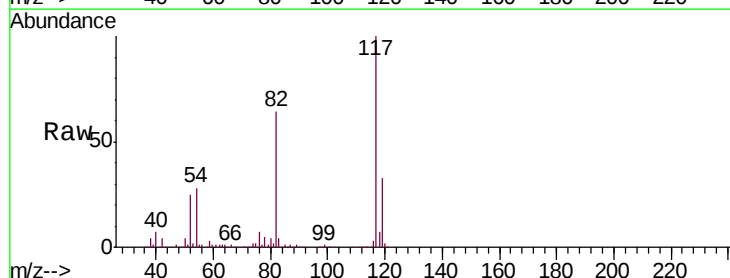
Tgt Ion: 117 Resp: 2396703

Ion Ratio Lower Upper

117 100

82 63.8 49.4 74.0

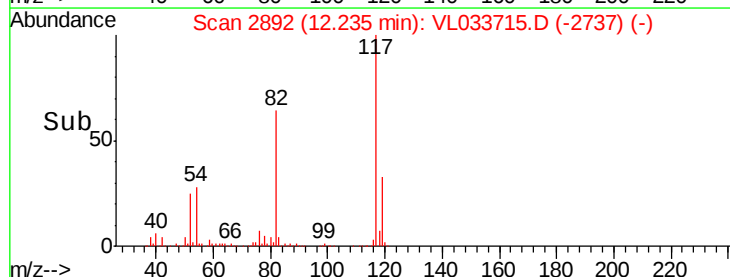
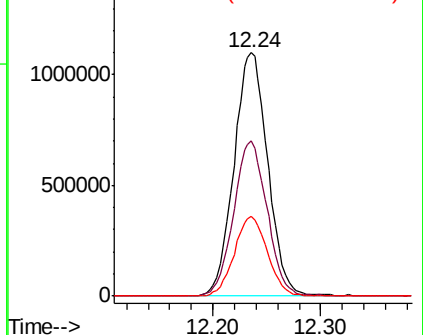
119 32.5 24.9 37.3

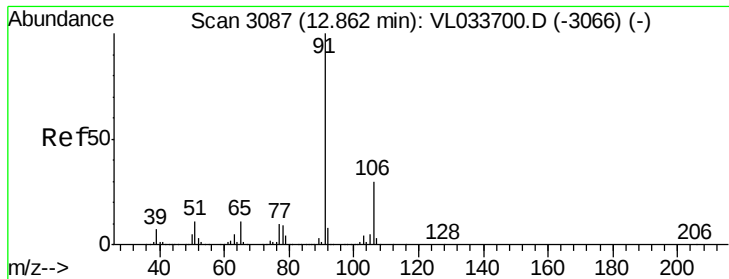


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.021 ppbv

RT: 12.86 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

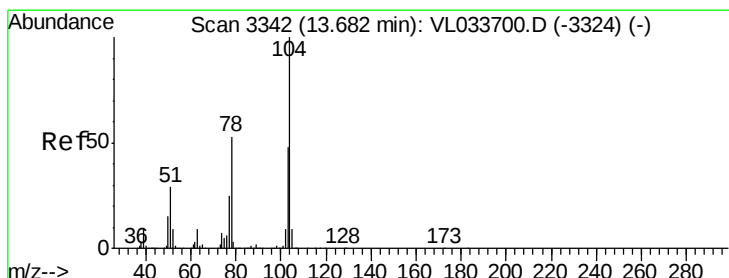
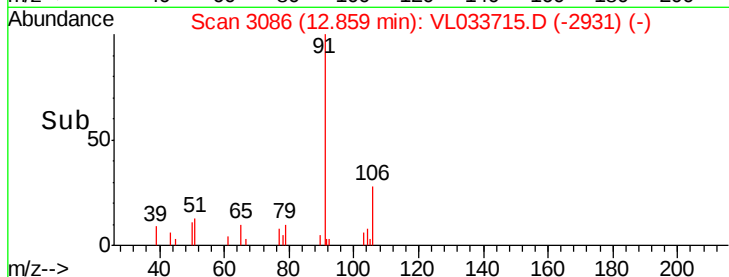
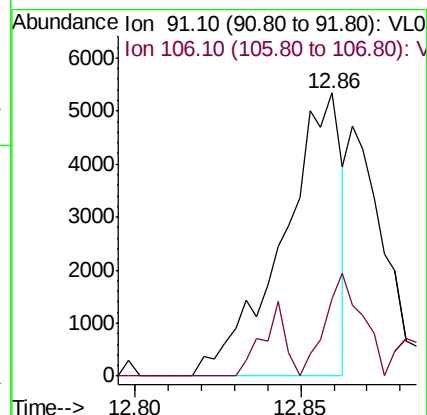
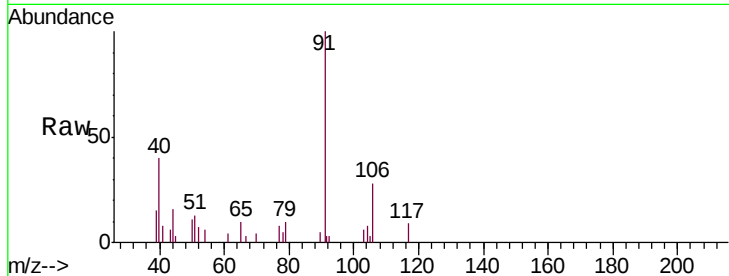
S-02

Tgt Ion: 91 Resp: 6582

Ion Ratio Lower Upper

91 100

106 27.3 23.9 35.9



#61

Styrene

Concen: 0.122 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. 0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

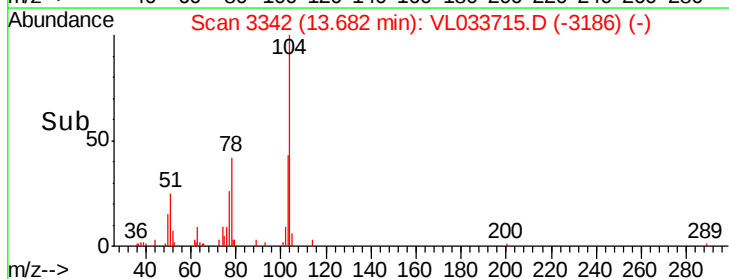
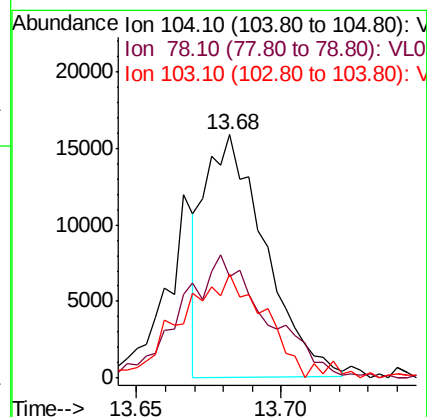
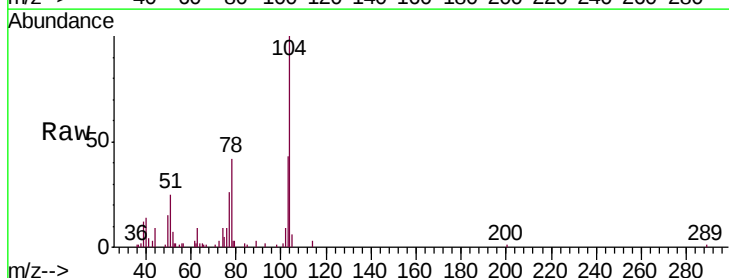
Tgt Ion: 104 Resp: 22885

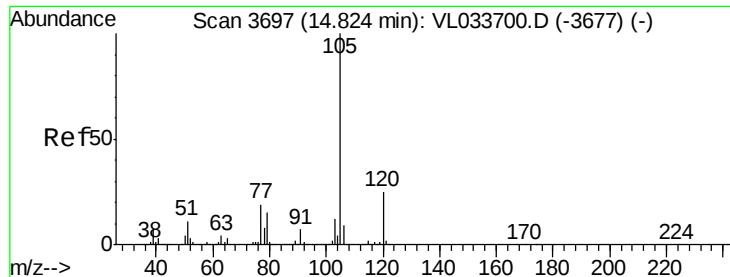
Ion Ratio Lower Upper

104 100

78 73.4 42.6 64.0#

103 63.3 37.8 56.6#





#62

Isopropylbenzene

Concen: 0.011 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

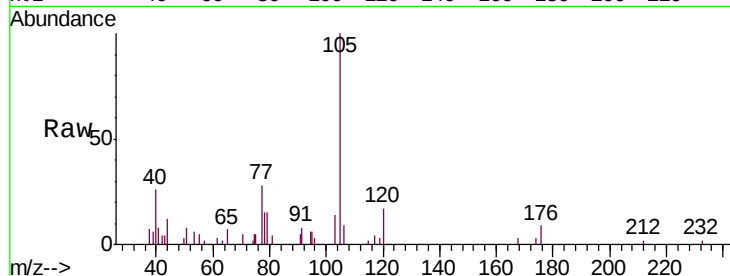
S-02

Tgt Ion: 105 Resp: 4064

Ion Ratio Lower Upper

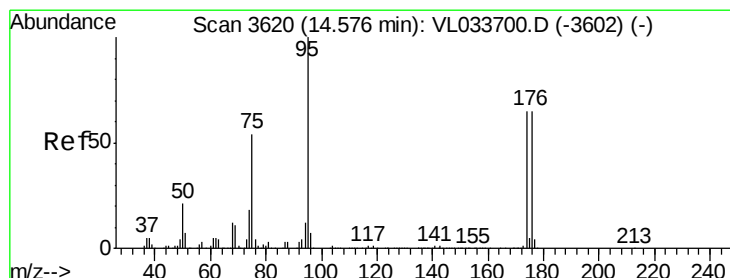
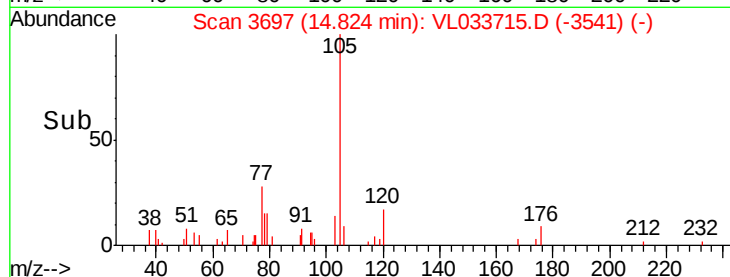
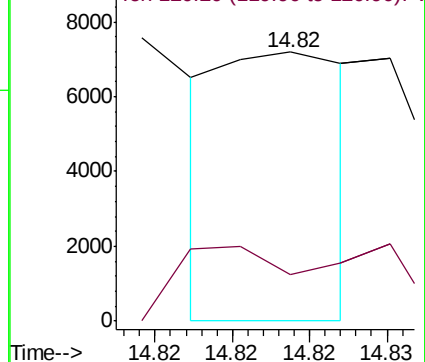
105 100

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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.130 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

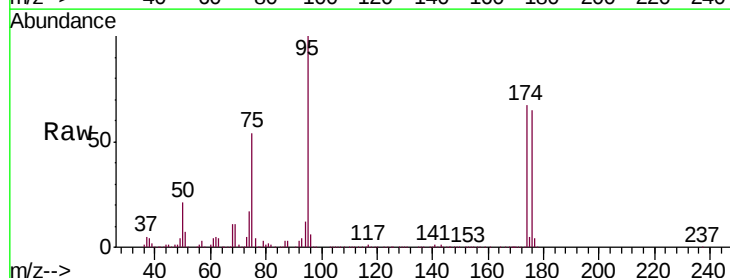
Tgt Ion: 95 Resp: 1968216

Ion Ratio Lower Upper

95 100

174 69.2 53.9 80.9

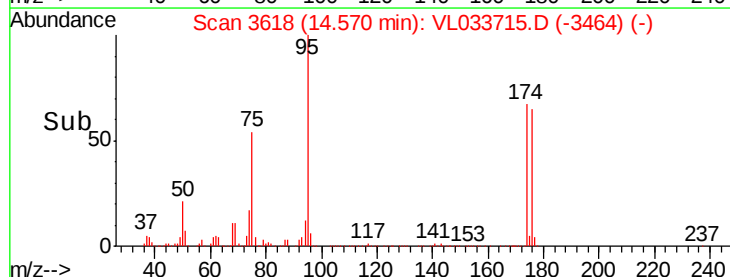
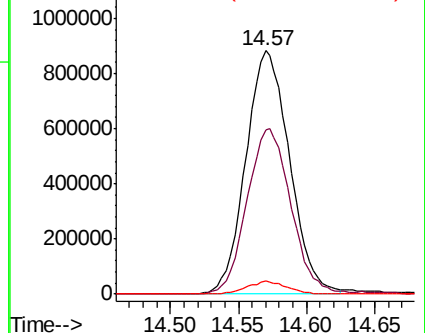
175 4.9 3.8 5.8

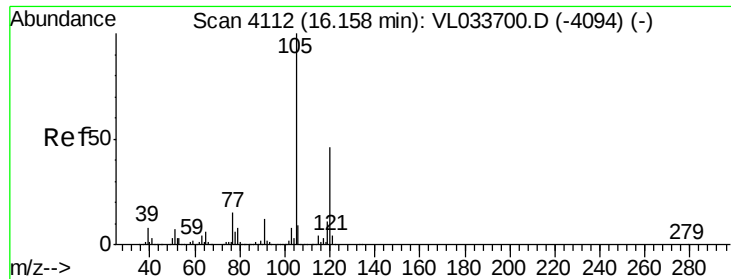


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#73

1,3,5-Trimethylbenzene

Concen: 0.018 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

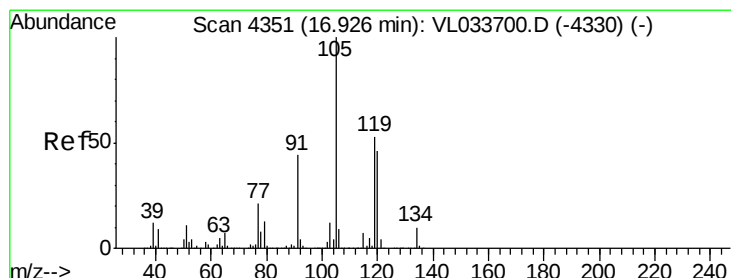
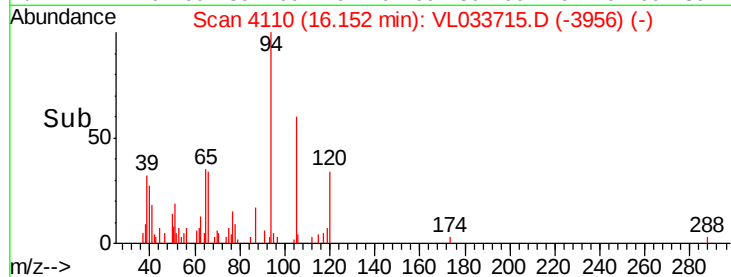
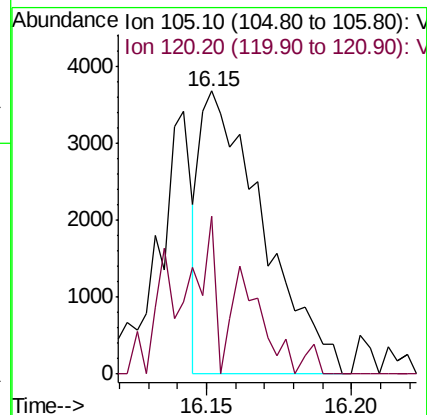
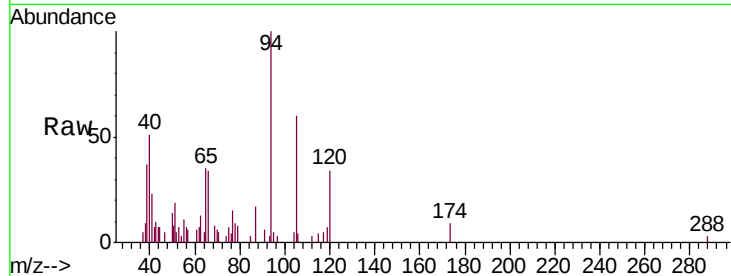
S-02

Tgt Ion:105 Resp: 5548

Ion Ratio Lower Upper

105 100

120 55.6 37.0 55.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.056 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Tgt Ion:105 Resp: 18973

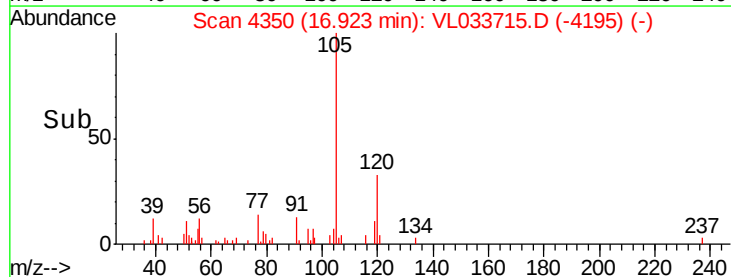
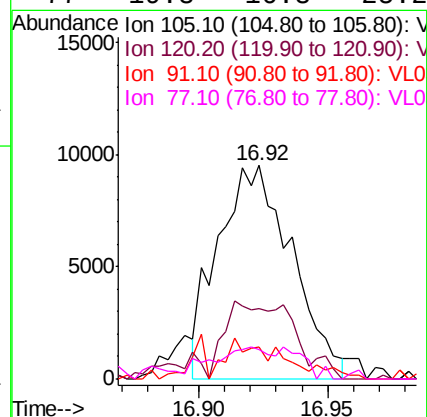
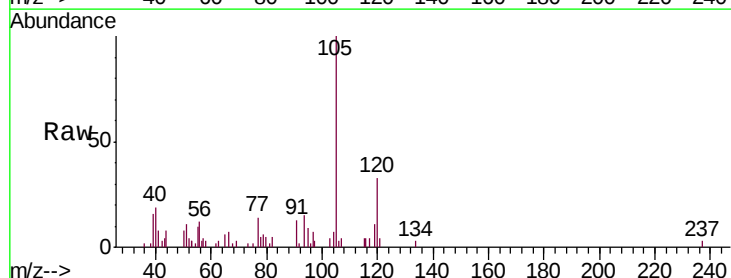
Ion Ratio Lower Upper

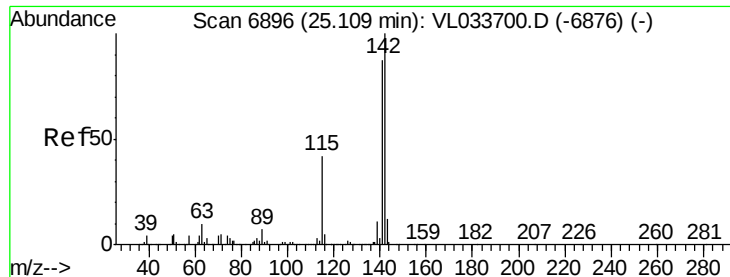
105 100

120 39.6 36.8 55.2

91 12.8 35.4 53.0#

77 19.8 16.8 25.2





#80

Naphthalene, 2-methyl-

Concen: 0.065 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.01 min

Lab File: VL033715.D

Acq: 17 May 2019 14:04

Instrument :

MSVOA_L

ClientSampleId :

S-02

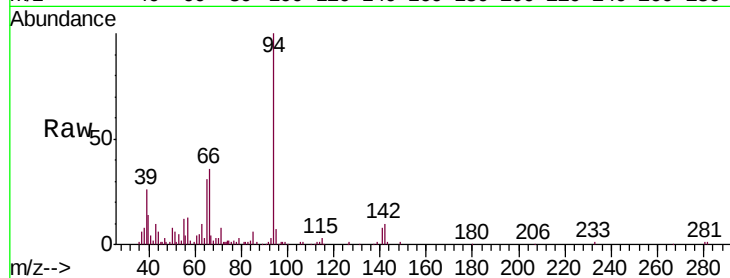
Tgt Ion:142 Resp: 7801

Ion Ratio Lower Upper

142 100

141 94.5 67.2 100.8

115 49.0 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

