

Data File : VL035403.D
Acq On : 13 Aug 2020 16:26
Operator : SY/AP
Sample : L3510-01DL 2X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
E053-1100DL

Quant Time: Aug 14 04:29:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081220AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Aug 12 20:32:44 2020
QLast Update : Wed Aug 12 20:32:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1289371	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2873461	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2810846	10.00	ppbv	-0.02

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.43 95 2546095 11.22 ppbv -0.01
Spiked Amount 10.000 Range 65 - 135 Recovery = 112.20%

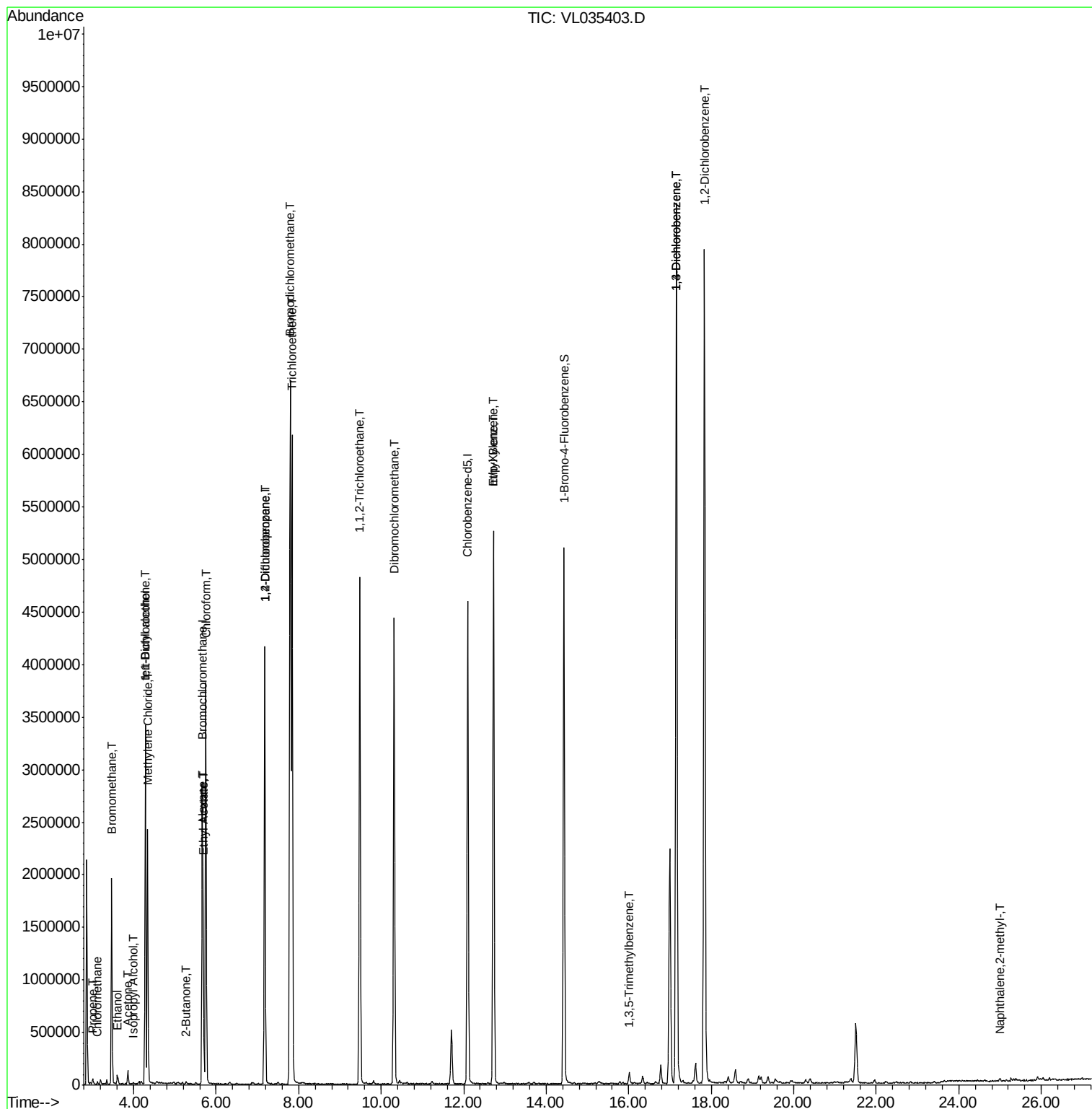
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.13	50	3719	0.044	ppbv	91
6) Bromomethane	3.47	94	983010	21.410	ppbv	97
9) Propene	3.01	41	9326	0.120	ppbv	99
13) Ethanol	3.61	45	82910	3.256	ppbv	98
15) Acetone	3.86	43	121357	0.747	ppbv	97
17) tert-Butyl alcohol	4.29	59	73181	0.386	ppbv #	74
18) 1,1-Dichloroethene	4.28	96	930385	15.847	ppbv	99
19) Isopropyl Alcohol	3.99	45	4040	0.032	ppbv #	44
20) Methylene Chloride	4.34	84	763295	12.447	ppbv	96
25) Ethyl Acetate	5.69	43	210885	0.629	ppbv #	78
26) Hexane	5.69	57	295841	2.017	ppbv #	40
29) Chloroform	5.75	83	2557749	12.219	ppbv	97
34) 2-Butanone	5.27	43	17792	0.087	ppbv #	70
38) Trichloroethene	7.84	130	1822245	16.875	ppbv	95
39) 1,2-Dichloropropane	7.18	63	795498	7.291	ppbv #	26
42) Bromodichloromethane	7.79	83	4585128	21.281	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	1650757	14.917	ppbv	98
48) Dibromochloromethane	10.31	129	2630421	14.871	ppbv	100
58) Ethyl Benzene	12.73	91	4846257	10.908	ppbv	99
59) m/p-Xylene	12.73	91	4846257	13.081	ppbv #	77
73) 1,3,5-Trimethylbenzene	16.01	105	71251	0.174	ppbv	88
75) 1,3-Dichlorobenzene	17.16	146	4089760	17.355	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	4089760	16.897	ppbv	97
77) 1,2-Dichlorobenzene	17.84	146	4006143	16.862	ppbv	98
80) Naphthalene,2-methyl-	24.99	142	15373	0.061	ppbv	92

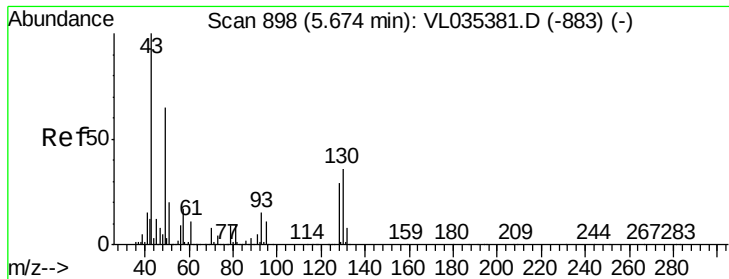
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

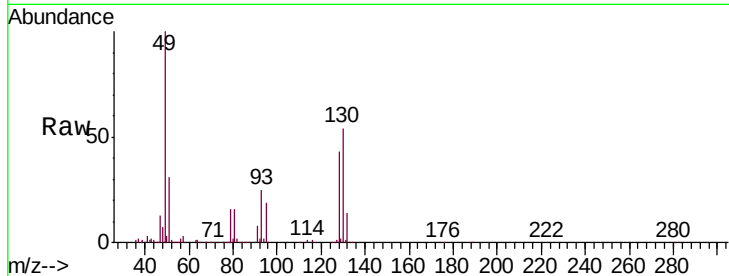
Tgt Ion: 49 Resp: 1289371

Ion Ratio Lower Upper

49 100

128 42.6 21.8 65.3

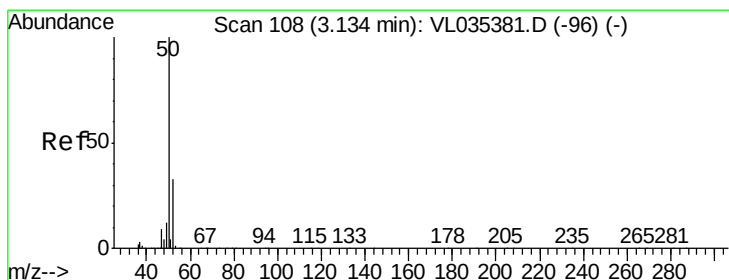
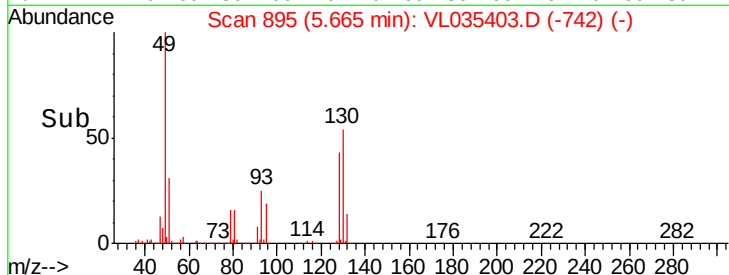
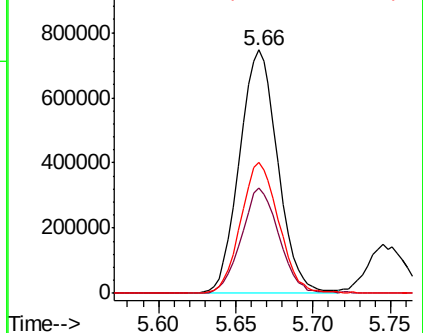
130 53.7 27.9 83.6



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



#4

Chloromethane

Concen: 0.044 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.00 min

Lab File: VL035403.D

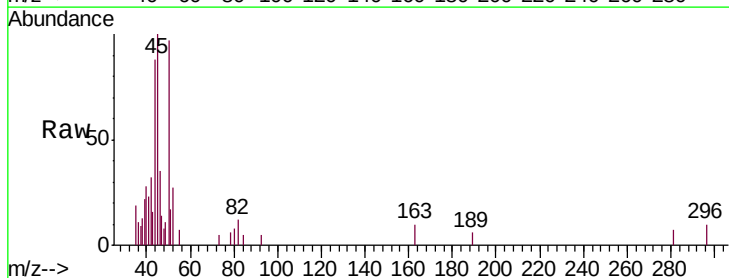
Acq: 13 Aug 2020 16:26

Tgt Ion: 50 Resp: 3719

Ion Ratio Lower Upper

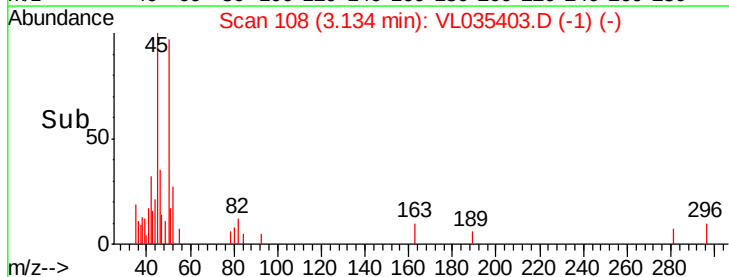
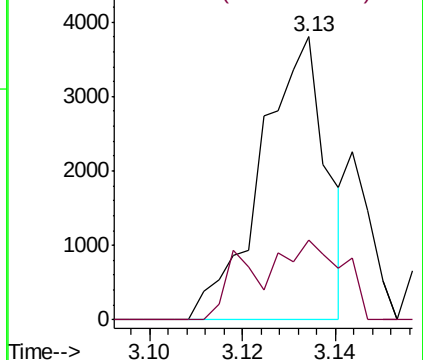
50 100

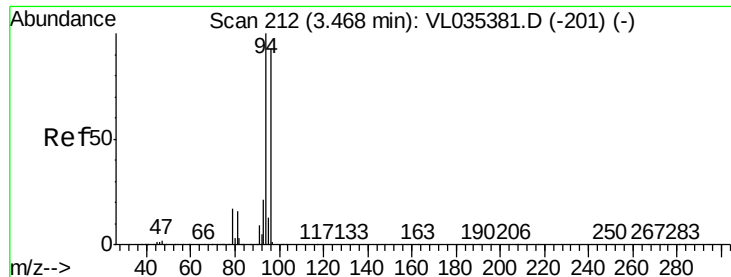
52 28.3 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#6

Bromomethane

Concen: 21.410 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

Instrument :

MSVOA_L

ClientSampleId :

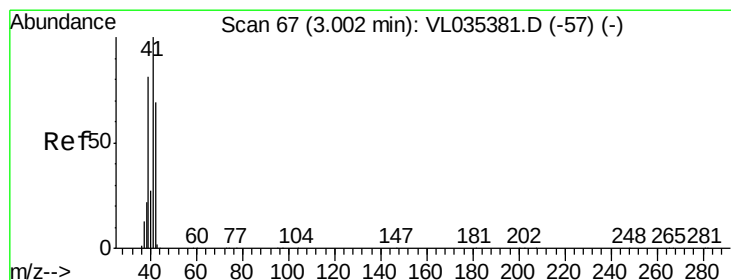
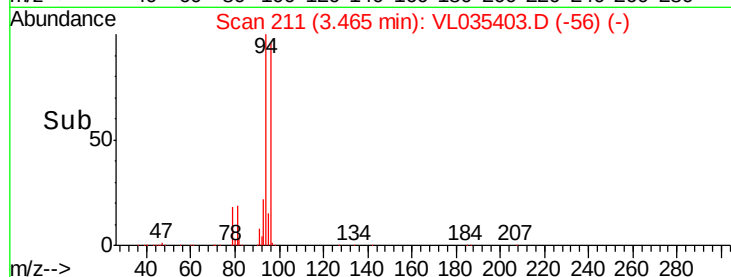
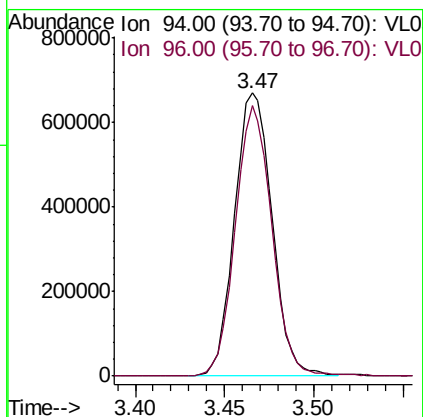
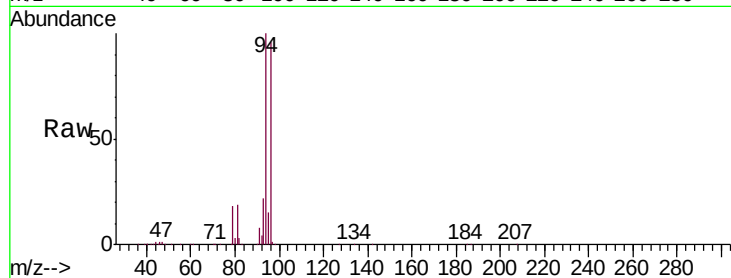
E053-1100DL

Tgt Ion: 94 Resp: 983010

Ion Ratio Lower Upper

94 100

96 95.6 74.4 111.6



#9

Propene

Concen: 0.120 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035403.D

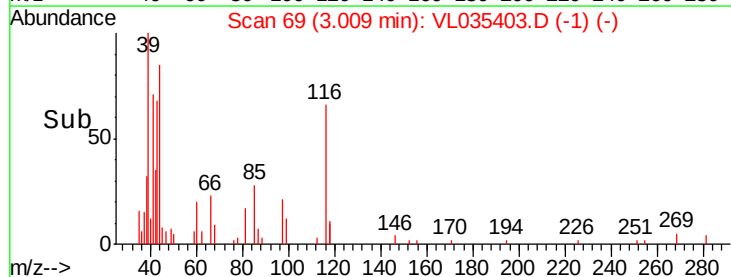
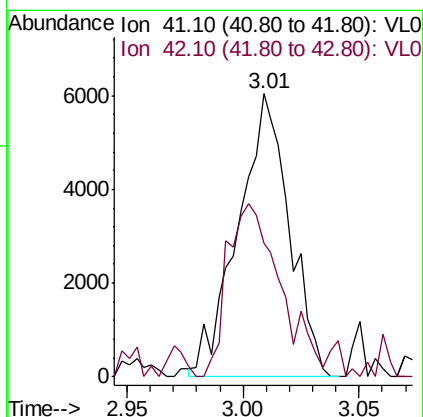
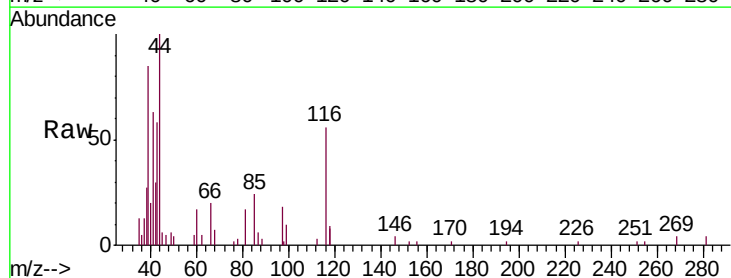
Acq: 13 Aug 2020 16:26

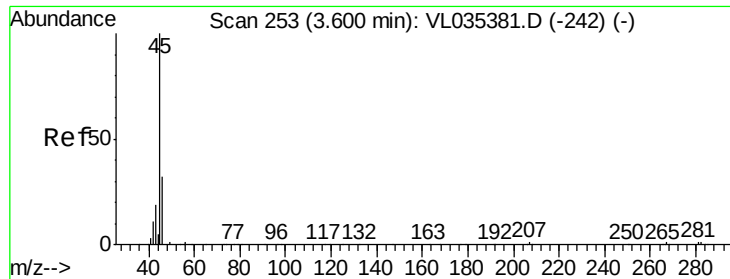
Tgt Ion: 41 Resp: 9326

Ion Ratio Lower Upper

41 100

42 69.8 55.4 83.2





#13

Ethanol

Concen: 3.256 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

Instrument :

MSVOA_L

ClientSampleId :

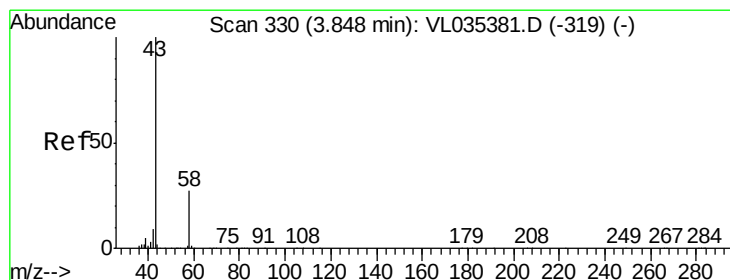
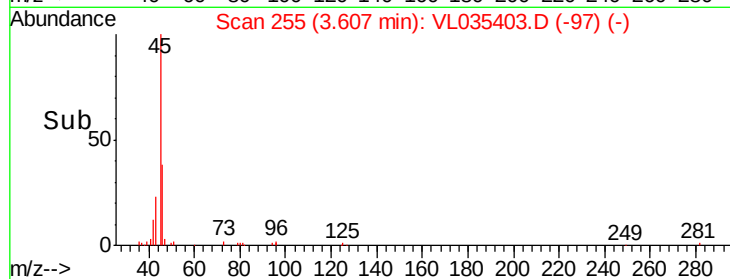
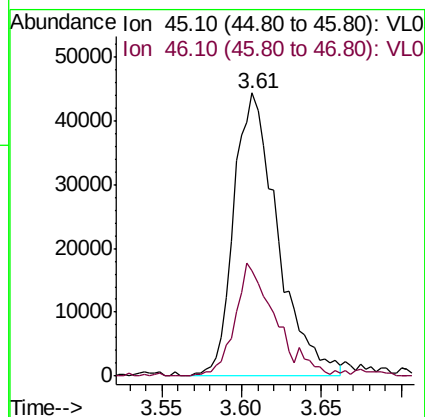
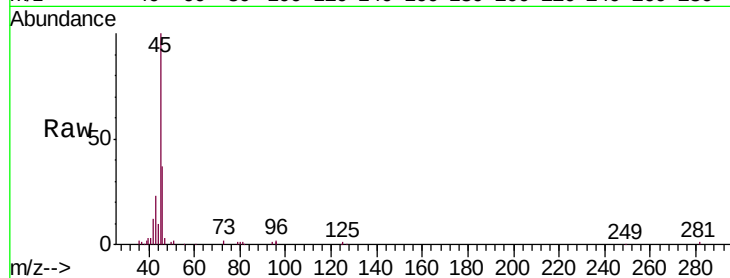
E053-1100DL

Tgt Ion: 45 Resp: 82910

Ion Ratio Lower Upper

45 100

46 36.6 14.1 56.3



#15

Acetone

Concen: 0.747 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL035403.D

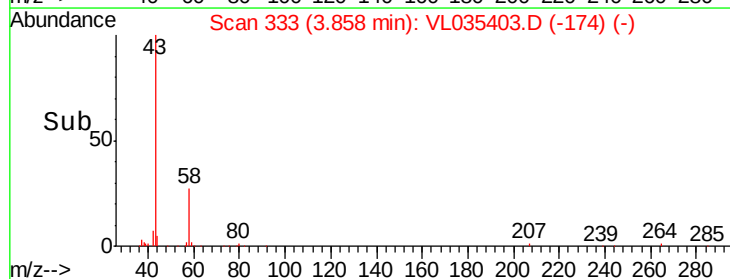
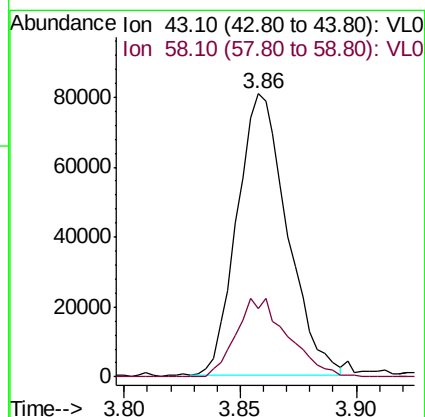
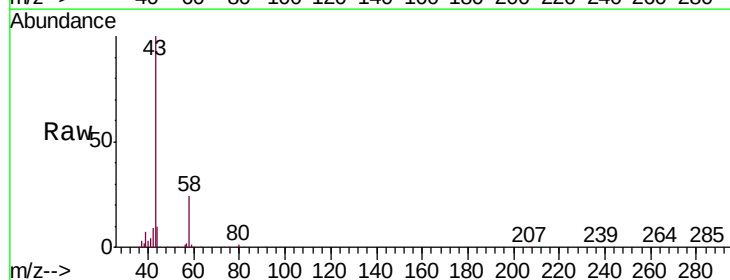
Acq: 13 Aug 2020 16:26

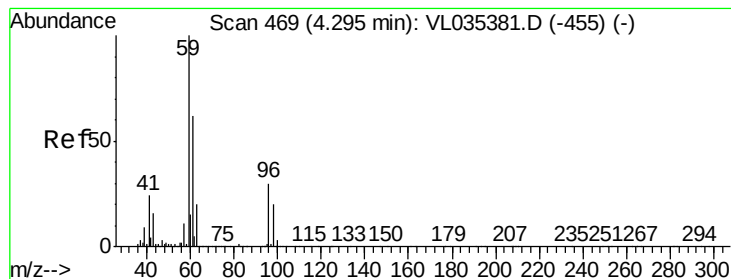
Tgt Ion: 43 Resp: 121357

Ion Ratio Lower Upper

43 100

58 28.9 21.7 32.5





#17

tert-Butyl alcohol

Concen: 0.386 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

Instrument :

MSVOA_L

ClientSampleID :

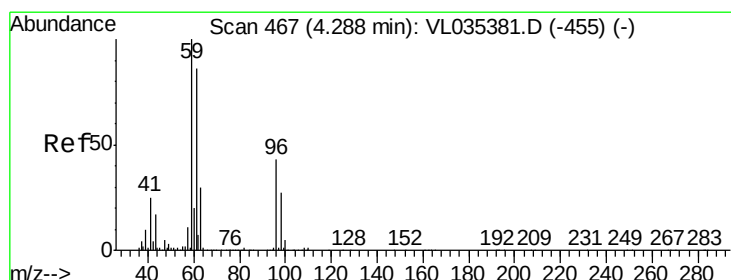
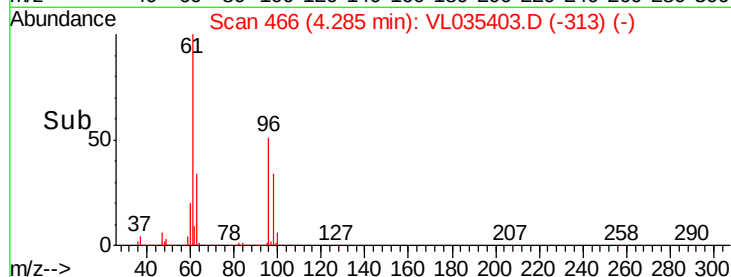
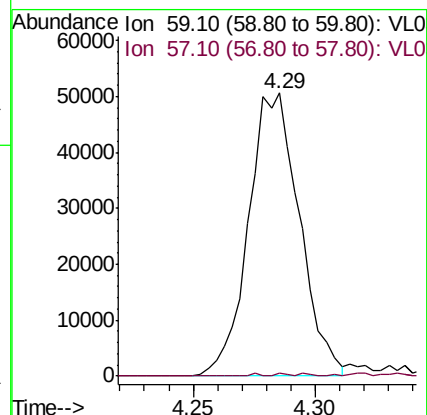
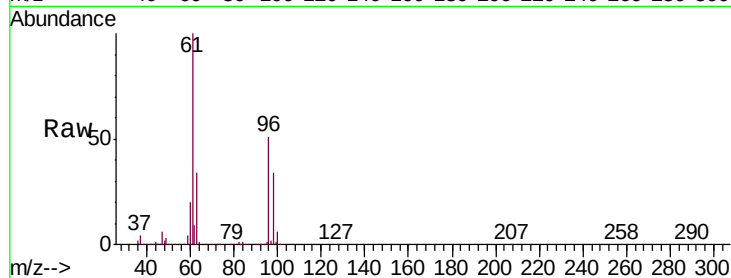
E053-1100DL

Tgt Ion: 59 Resp: 73181

Ion Ratio Lower Upper

59 100

57 0.8 8.6 13.0#



#18

1,1-Dichloroethene

Concen: 15.847 ppbv

RT: 4.28 min Scan# 465

Delta R.T. -0.01 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

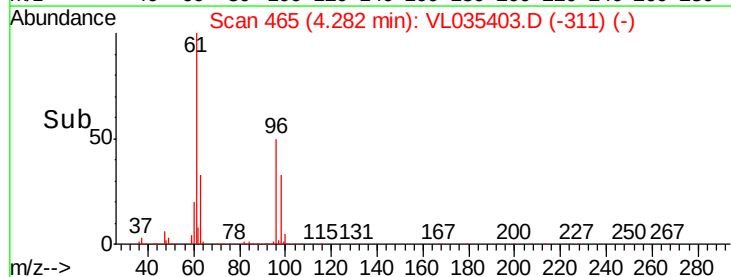
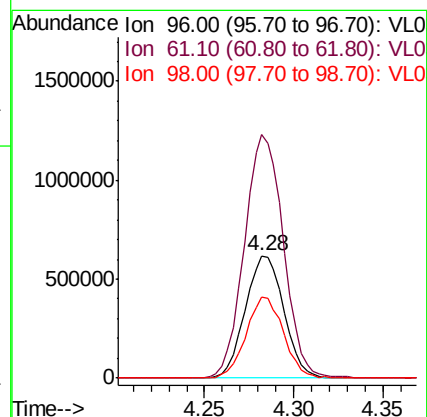
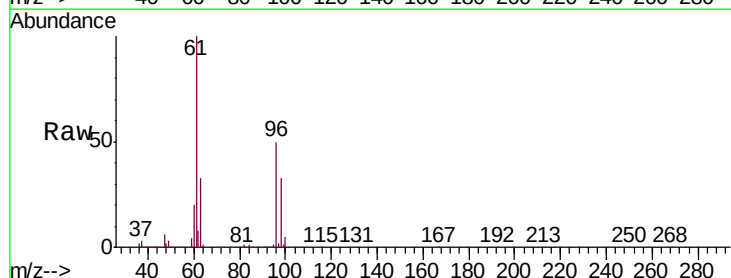
Tgt Ion: 96 Resp: 930385

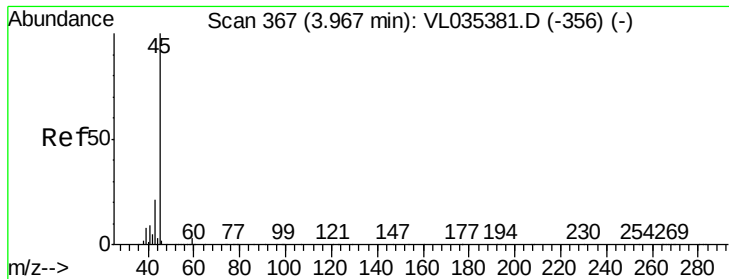
Ion Ratio Lower Upper

96 100

61 199.6 159.0 238.4

98 66.2 50.3 75.5





#19

Isopropyl Alcohol

Concen: 0.032 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

Instrument :

MSVOA_L

ClientSampleId :

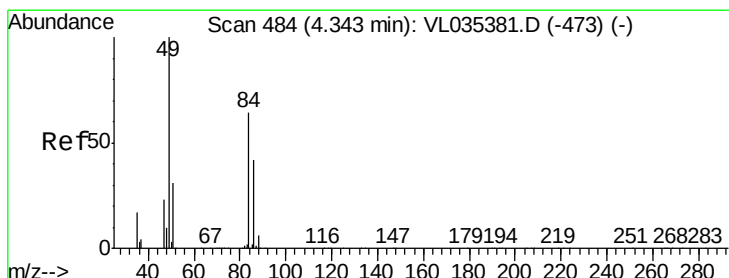
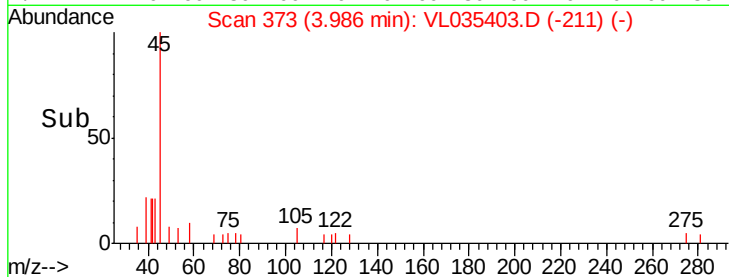
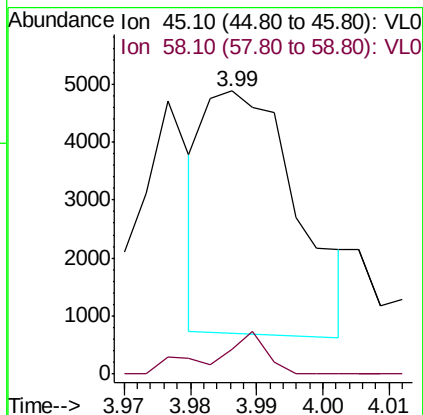
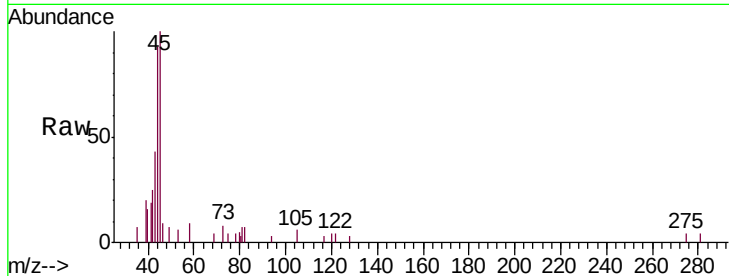
E053-1100DL

Tgt Ion: 45 Resp: 4040

Ion Ratio Lower Upper

45 100

58 0.0 24.9 37.3#



#20

Methylene Chloride

Concen: 12.447 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

Tgt Ion: 84 Resp: 763295

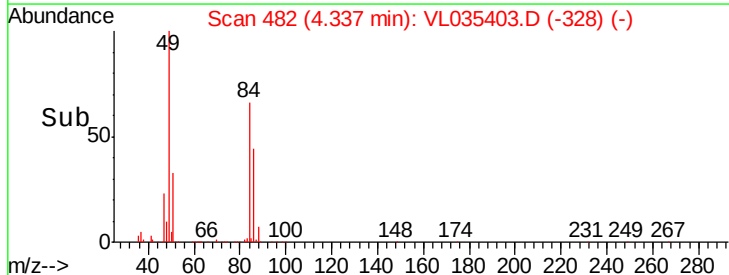
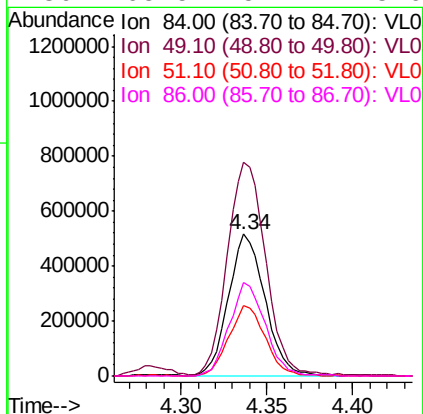
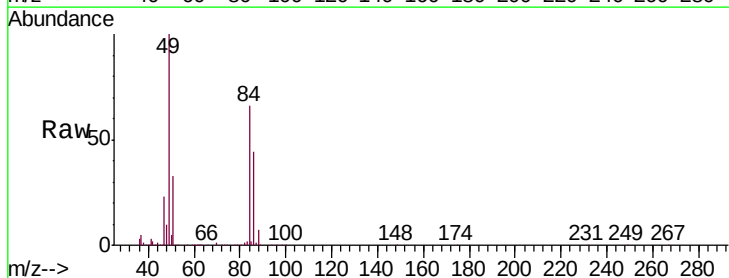
Ion Ratio Lower Upper

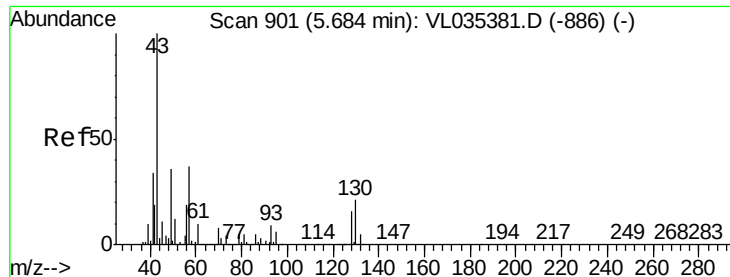
84 100

49 149.8 125.7 188.5

51 49.4 38.5 57.7

86 65.5 52.4 78.6

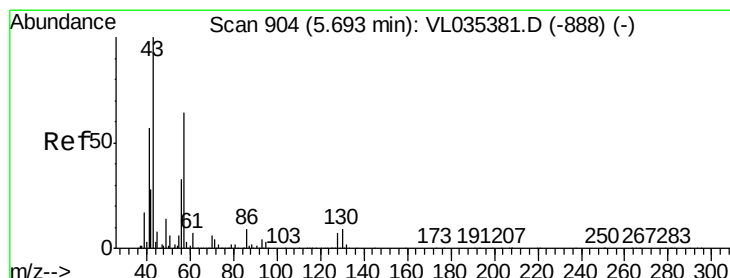
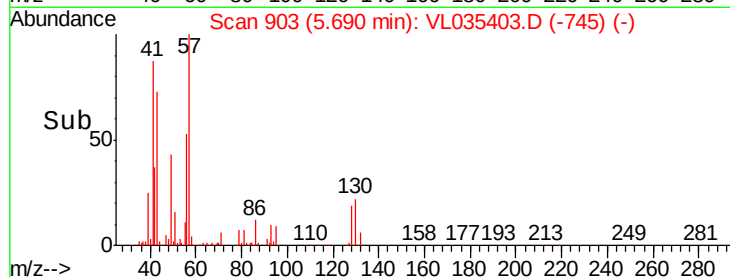
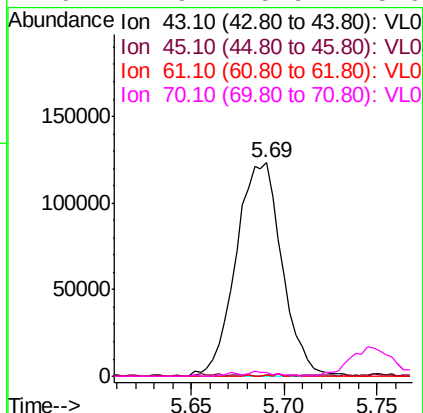
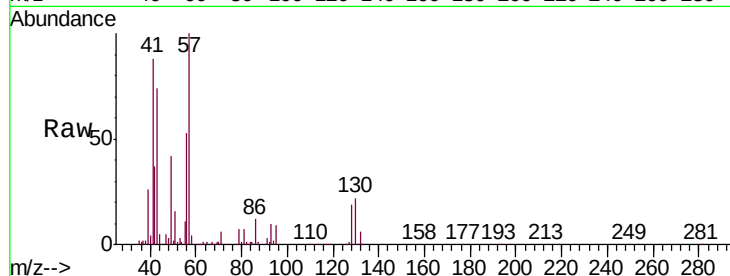




#25
Ethyl Acetate
Concen: 0.629 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL035403.D
Acq: 13 Aug 2020 16:26

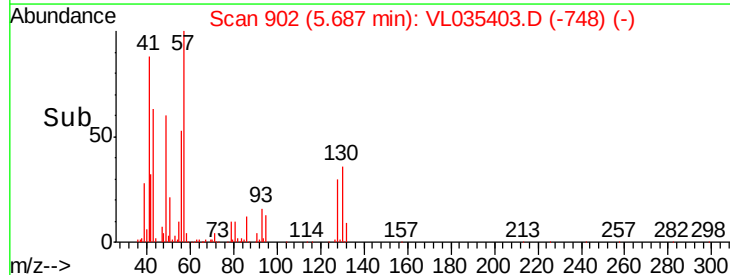
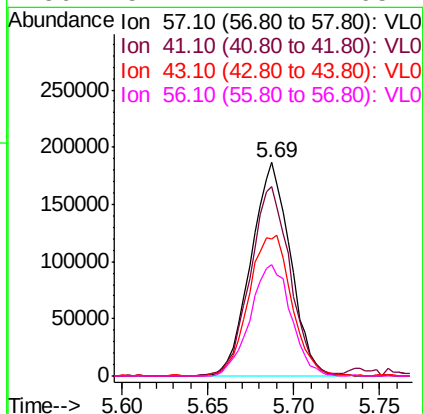
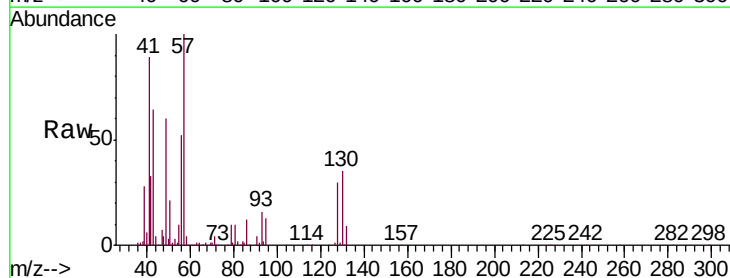
Instrument :
MSVOA_L
ClientSampleId :
E053-1100DL

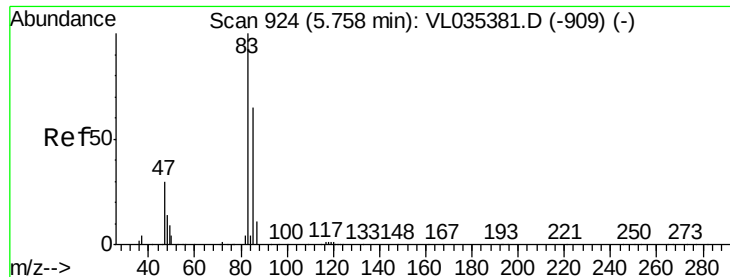
Tgt Ion:	43	Resp:	210885
Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.0	12.0#
61	0.4	7.4	11.2#
70	1.9	5.9	8.9#



#26
Hexane
Concen: 2.017 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL035403.D
Acq: 13 Aug 2020 16:26

Tgt Ion:	57	Resp:	295841
Ion	Ratio	Lower	Upper
57	100		
41	90.2	75.4	113.2
43	72.0	184.1	276.1#
56	54.2	42.2	63.4





#29

Chloroform

Concen: 12.219 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.01 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

Instrument :

MSVOA_L

ClientSampleId :

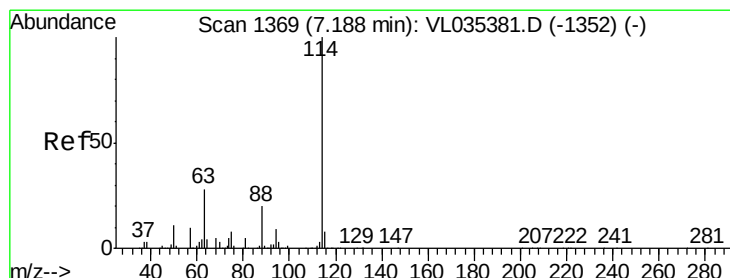
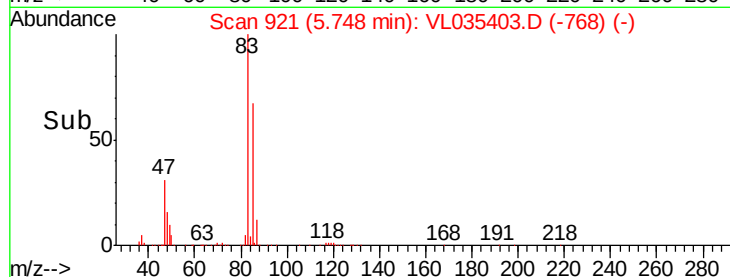
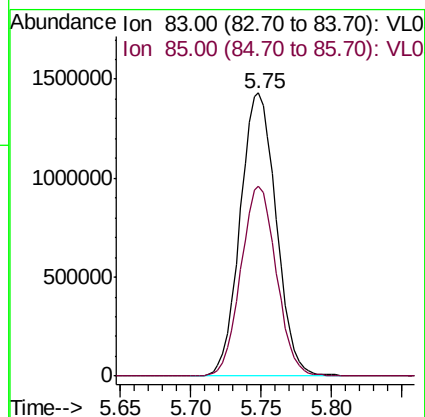
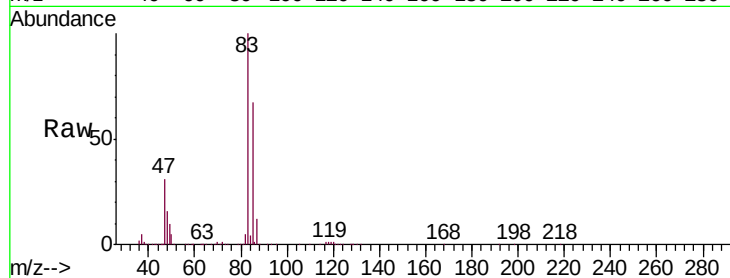
E053-1100DL

Tgt Ion: 83 Resp: 2557749

Ion Ratio Lower Upper

83 100

85 67.1 51.7 77.5



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

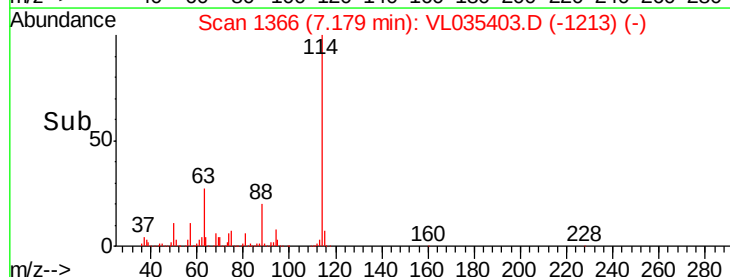
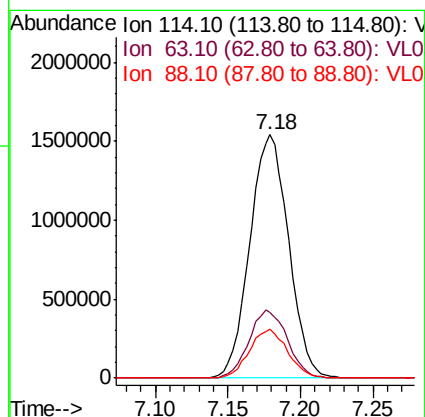
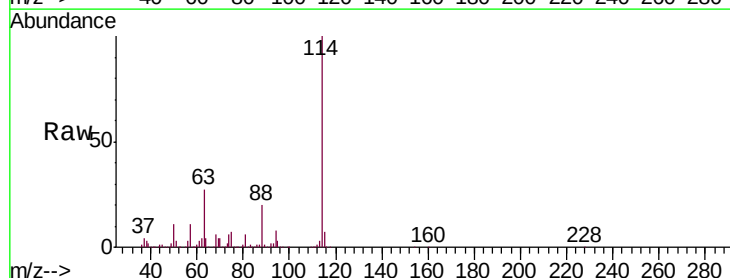
Tgt Ion: 114 Resp: 2873461

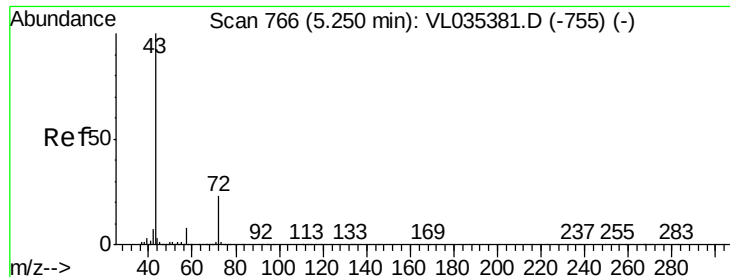
Ion Ratio Lower Upper

114 100

63 27.8 21.5 32.3

88 19.8 15.6 23.4

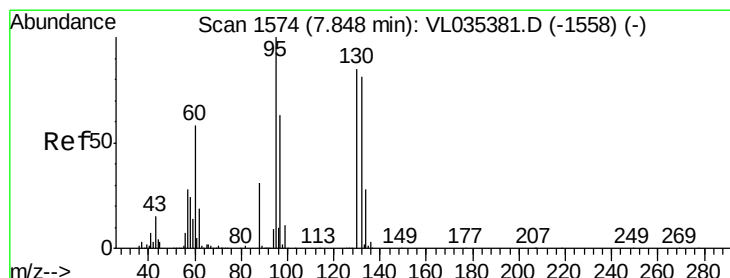
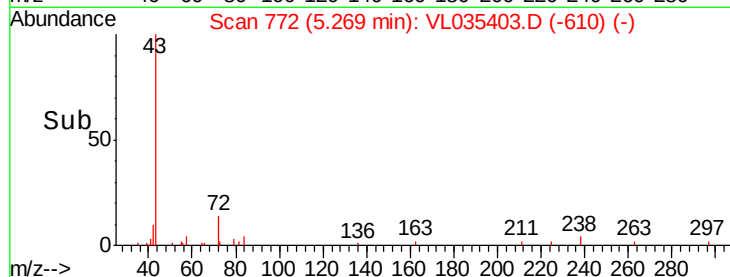
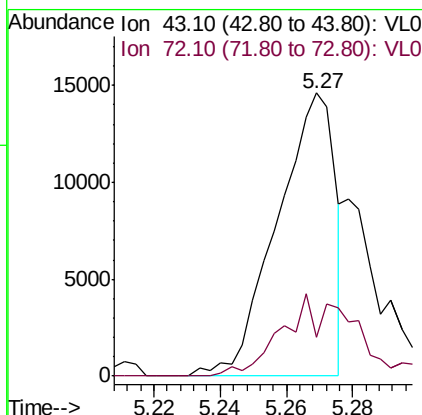
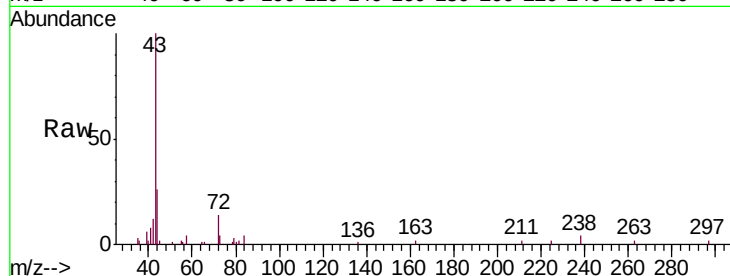




#34
2-Butanone
Concen: 0.087 ppbv
RT: 5.27 min Scan# 772
Delta R.T. 0.02 min
Lab File: VL035403.D
Acq: 13 Aug 2020 16:26

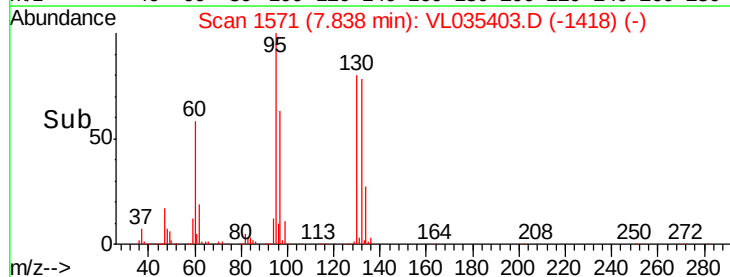
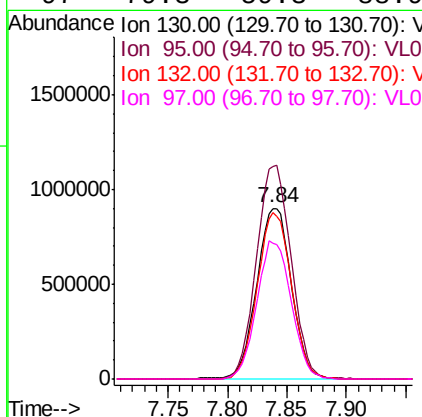
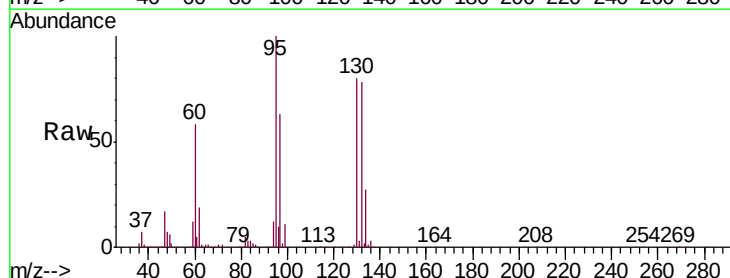
Instrument :
MSVOA_L
ClientSampleId :
E053-1100DL

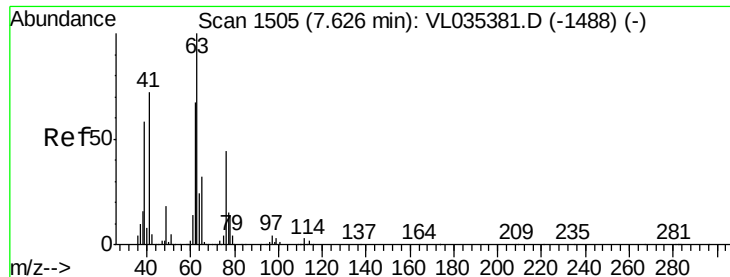
Tgt Ion: 43 Resp: 17792
Ion Ratio Lower Upper
43 100
72 36.3 17.7 26.5#



#38
Trichloroethene
Concen: 16.875 ppbv
RT: 7.84 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL035403.D
Acq: 13 Aug 2020 16:26

Tgt Ion: 130 Resp: 1822245
Ion Ratio Lower Upper
130 100
95 125.0 94.2 141.4
132 97.3 76.6 114.8
97 79.3 59.3 88.9





#39

1,2-Dichloropropane

Concen: 7.291 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.45 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

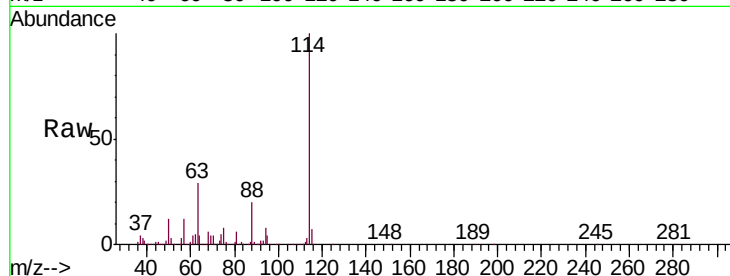
Tgt Ion: 63 Resp: 795498

Ion Ratio Lower Upper

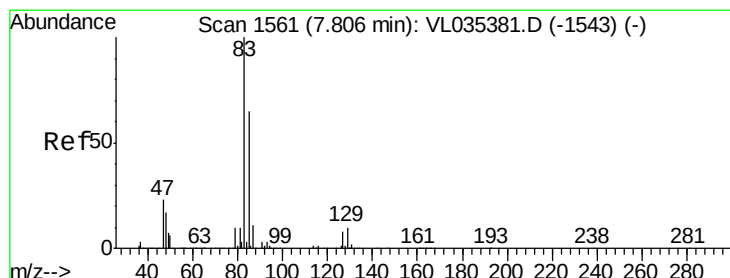
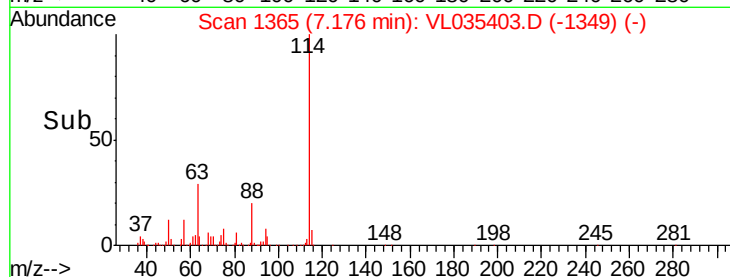
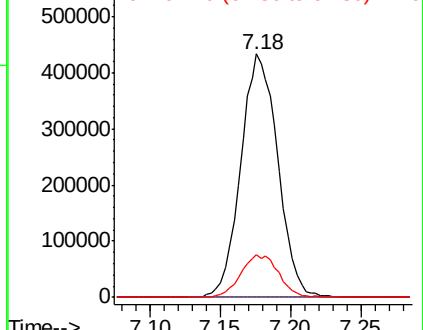
63 100

41 0.1 57.4 86.2#

62 17.5 53.6 80.4#



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



#42

Bromodichloromethane

Concen: 21.281 ppbv

RT: 7.79 min Scan# 1557

Delta R.T. -0.01 min

Lab File: VL035403.D

Acq: 13 Aug 2020 16:26

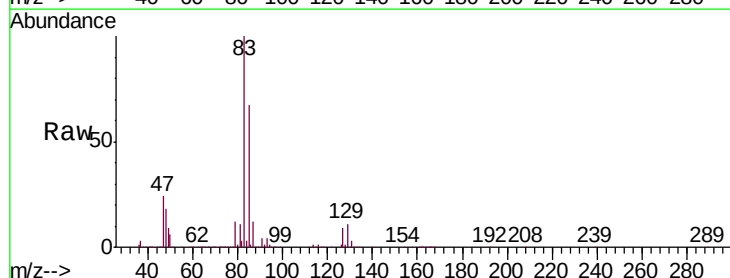
Tgt Ion: 83 Resp: 4585128

Ion Ratio Lower Upper

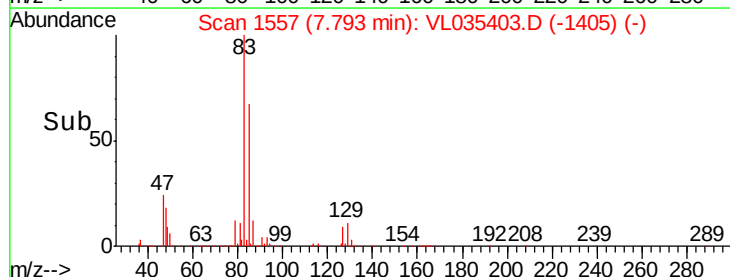
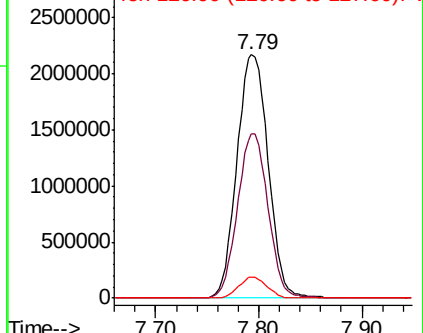
83 100

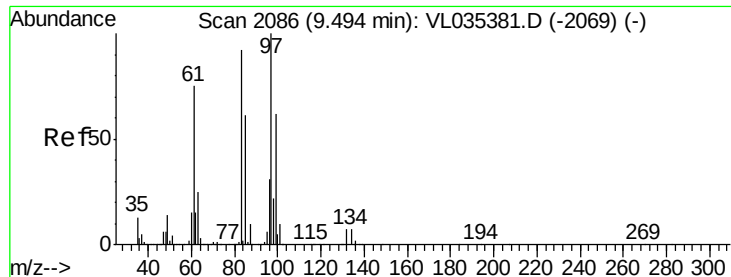
85 67.2 52.2 78.4

127 8.7 6.3 9.5



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

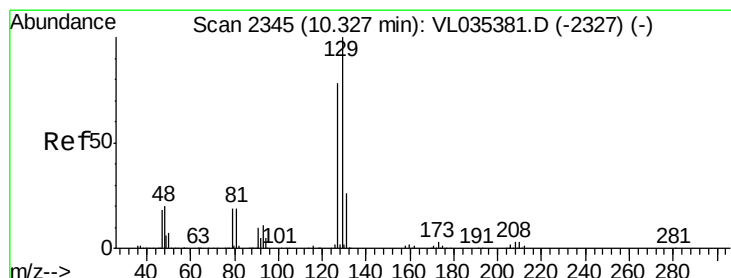
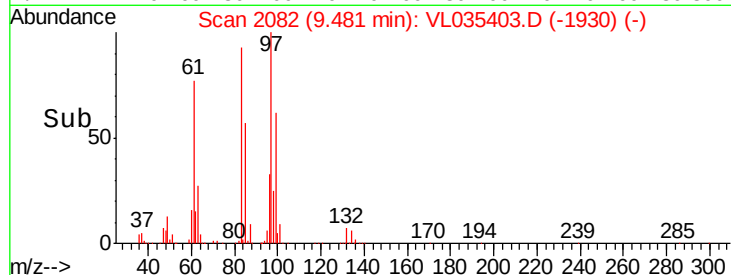
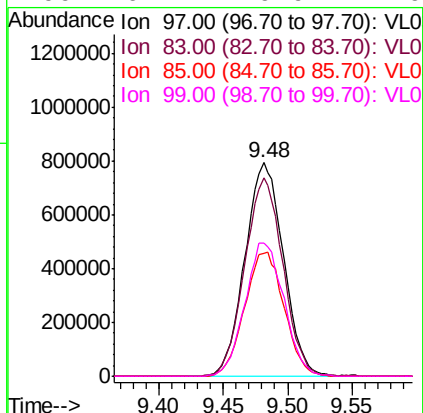
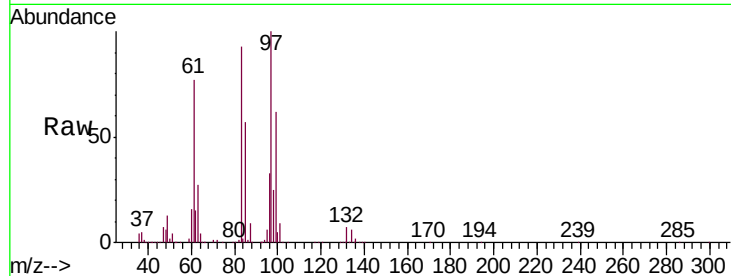




#47
 1,1,2-Trichloroethane
 Concen: 14.917 ppbv
 RT: 9.48 min Scan# 2082
 Delta R.T. -0.01 min
 Lab File: VL035403.D
 Acq: 13 Aug 2020 16:26

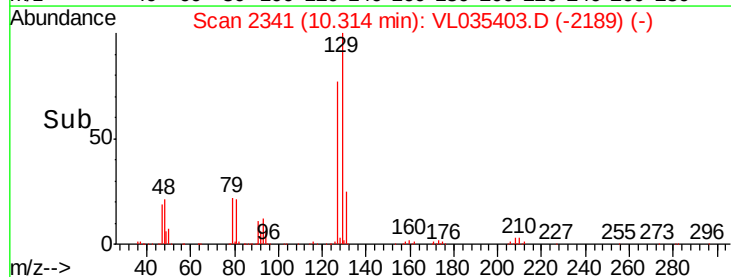
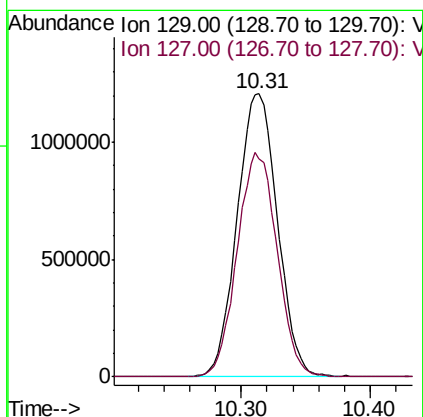
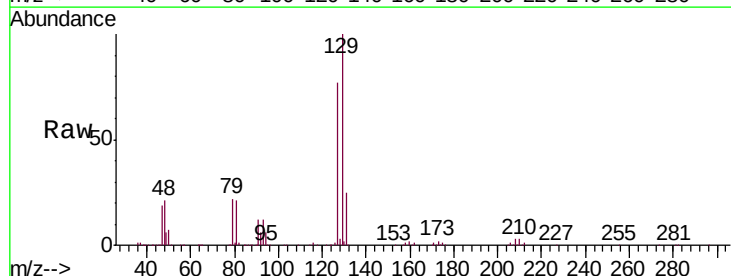
Instrument :
 MSVOA_L
 ClientSampleID :
 E053-1100DL

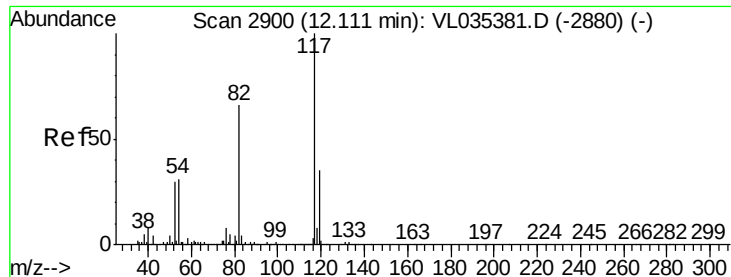
Tgt Ion: 97 Resp: 1650757
 Ion Ratio Lower Upper
 97 100
 83 93.0 73.9 110.9
 85 57.4 49.0 73.6
 99 62.2 49.9 74.9



#48
 Dibromochloromethane
 Concen: 14.871 ppbv
 RT: 10.31 min Scan# 2341
 Delta R.T. -0.01 min
 Lab File: VL035403.D
 Acq: 13 Aug 2020 16:26

Tgt Ion: 129 Resp: 2630421
 Ion Ratio Lower Upper
 129 100
 127 78.8 39.3 117.8

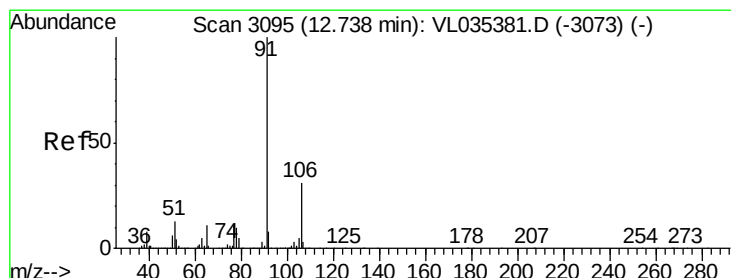
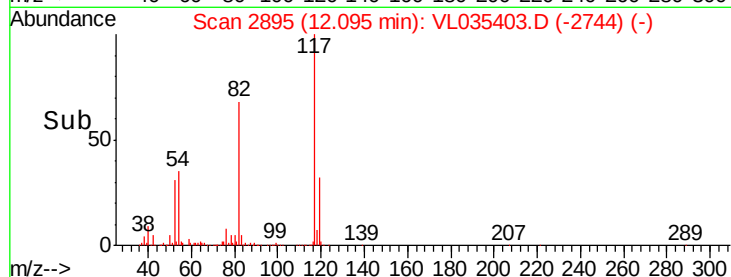
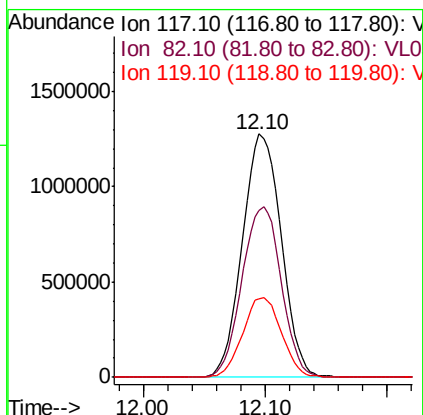
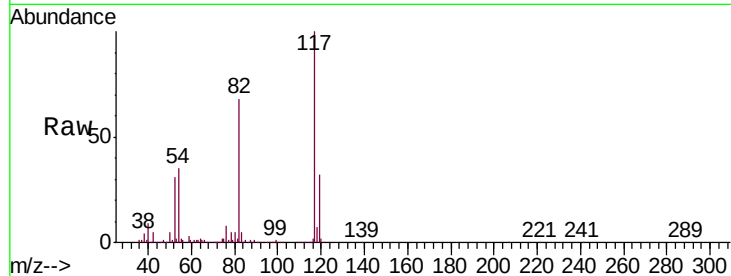




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.02 min
Lab File: VL035403.D
Acq: 13 Aug 2020 16:26

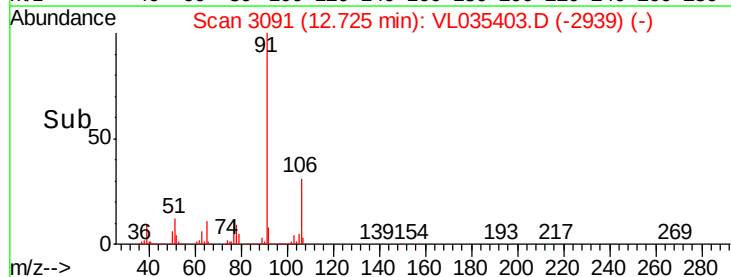
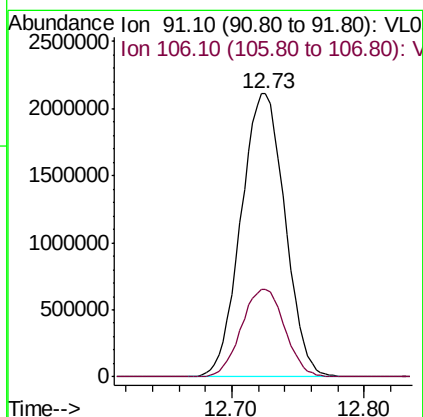
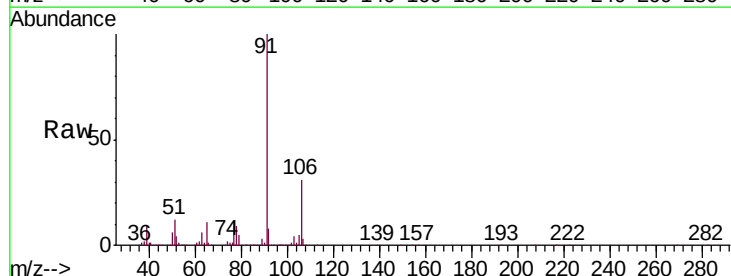
Instrument :
MSVOA_L
ClientSampleId :
E053-1100DL

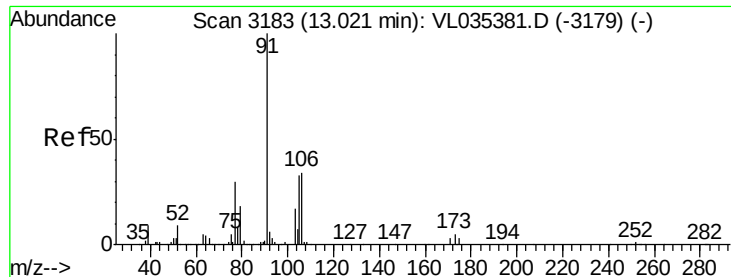
Tgt Ion: 117 Resp: 2810846
Ion Ratio Lower Upper
117 100
82 71.0 53.0 79.6
119 32.8 25.7 38.5



#58
Ethyl Benzene
Concen: 10.908 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. -0.01 min
Lab File: VL035403.D
Acq: 13 Aug 2020 16:26

Tgt Ion: 91 Resp: 4846257
Ion Ratio Lower Upper
91 100
106 31.1 25.1 37.7

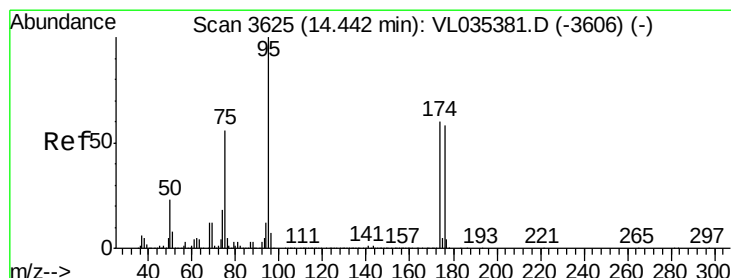
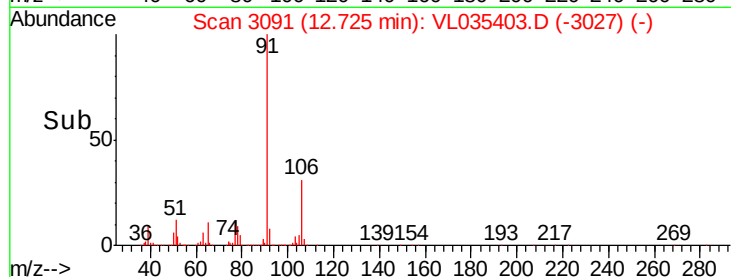
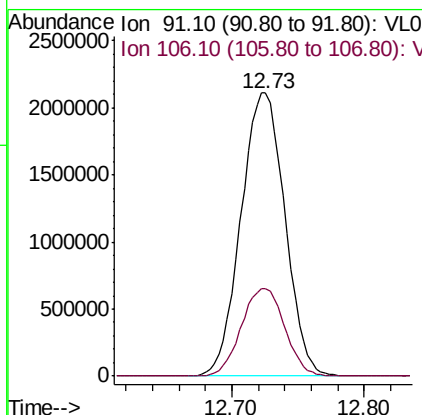
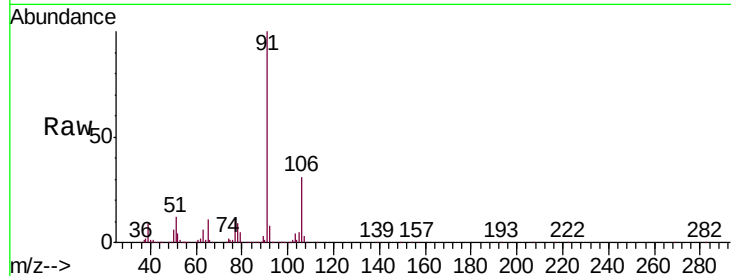




#59
m/p-Xylene
Concen: 13.081 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. -0.30 min
Lab File: VL035403.D
Acq: 13 Aug 2020 16:26

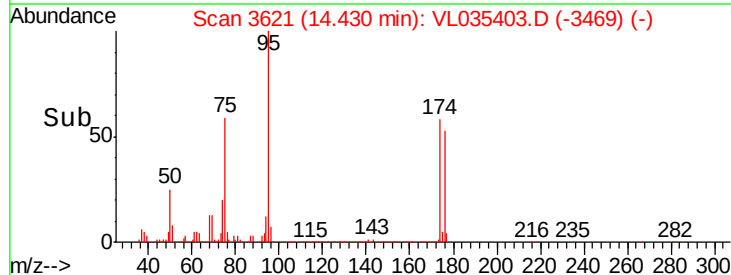
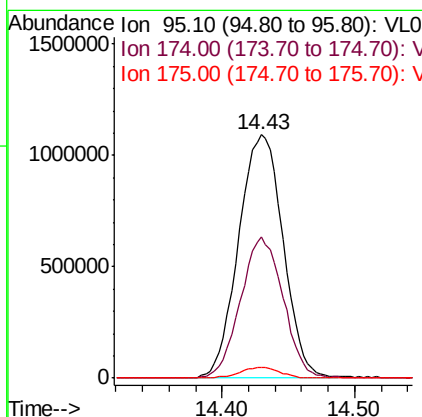
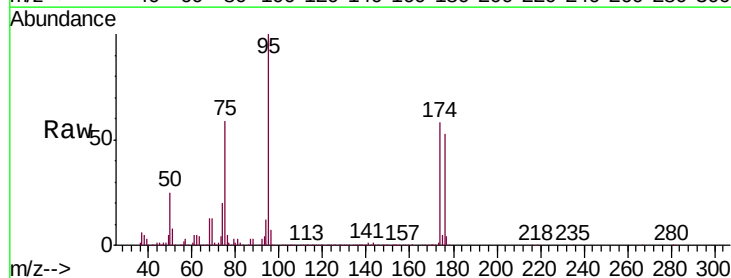
Instrument :
MSVOA_L
ClientSampleId :
E053-1100DL

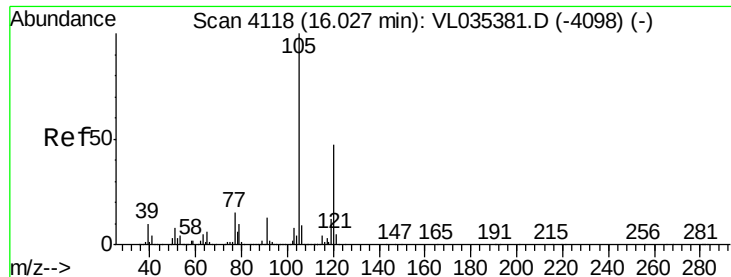
Tgt Ion: 91 Resp: 4846257
Ion Ratio Lower Upper
91 100
106 30.8 36.7 55.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 11.219 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.01 min
Lab File: VL035403.D
Acq: 13 Aug 2020 16:26

Tgt Ion: 95 Resp: 2546095
Ion Ratio Lower Upper
95 100
174 56.0 48.2 72.2
175 4.1 3.7 5.5

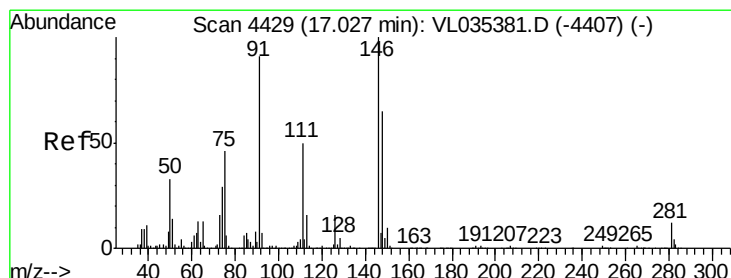
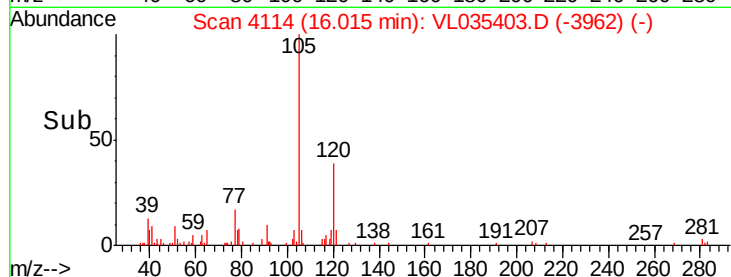
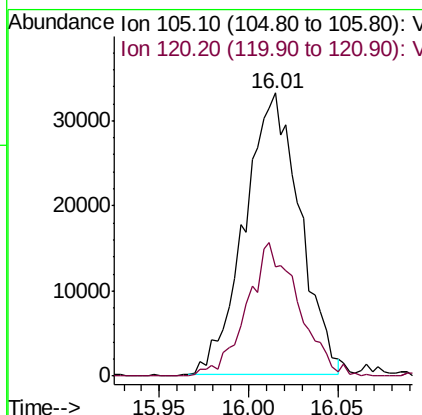
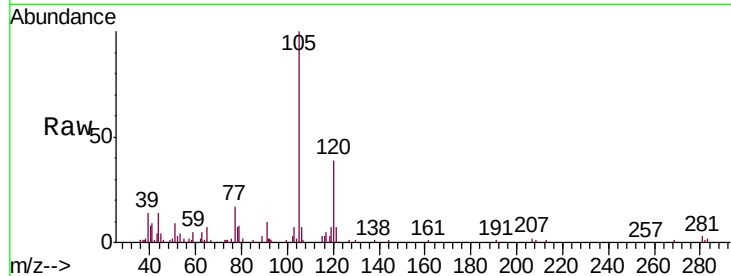




#73
 1,3,5-Trimethylbenzene
 Concen: 0.174 ppbv
 RT: 16.01 min Scan# 4114
 Delta R.T. -0.01 min
 Lab File: VL035403.D
 Acq: 13 Aug 2020 16:26

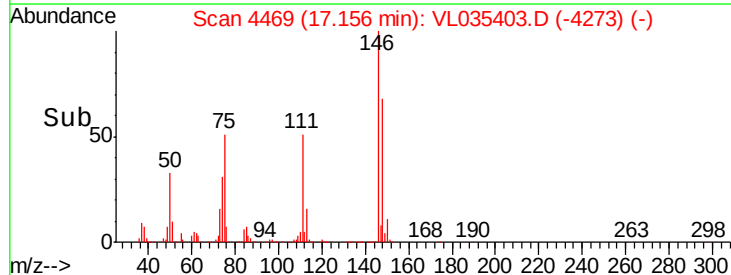
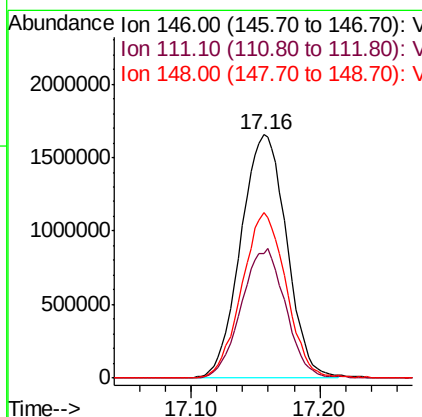
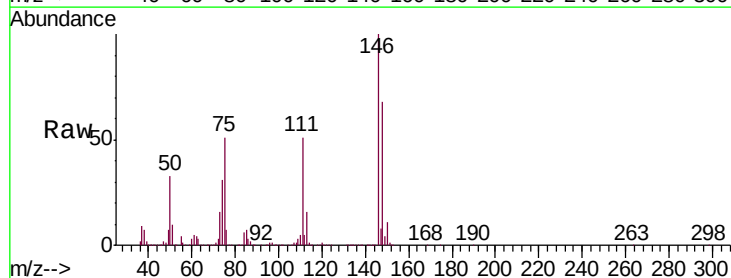
Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

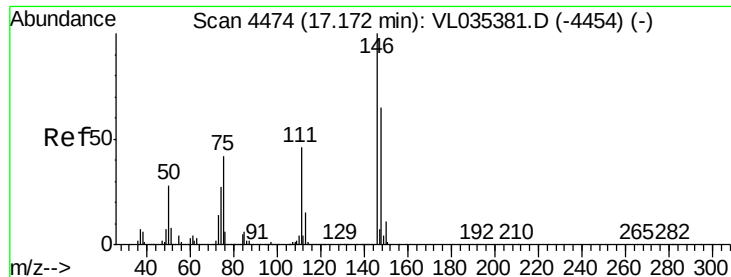
Tgt Ion:105 Resp: 71251
 Ion Ratio Lower Upper
 105 100
 120 39.0 37.4 56.0



#75
 1,3-Dichlorobenzene
 Concen: 17.355 ppbv
 RT: 17.16 min Scan# 4469
 Delta R.T. 0.13 min
 Lab File: VL035403.D
 Acq: 13 Aug 2020 16:26

Tgt Ion:146 Resp: 4089760
 Ion Ratio Lower Upper
 146 100
 111 51.6 25.0 75.0
 148 65.7 32.6 97.7

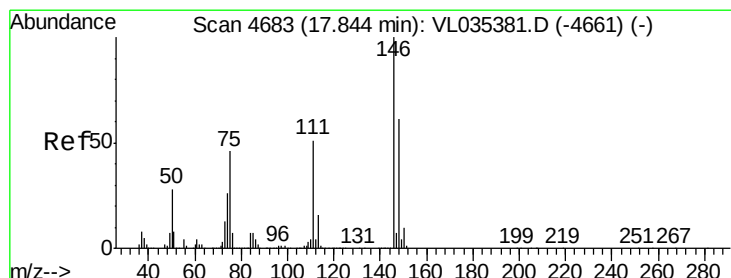
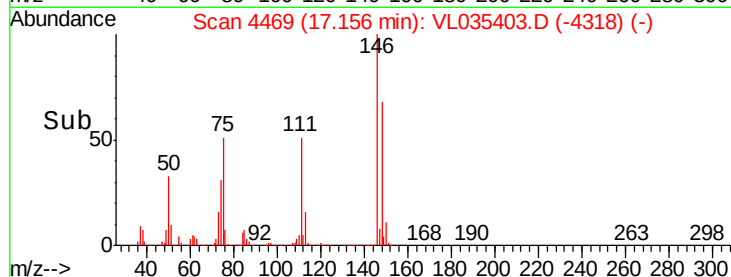
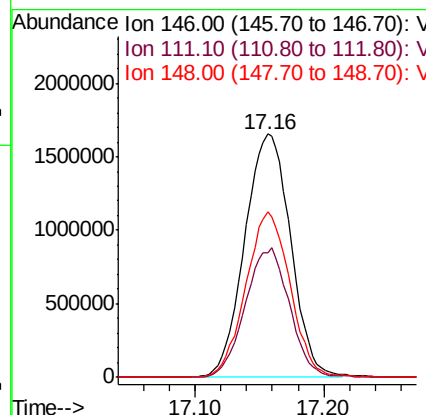
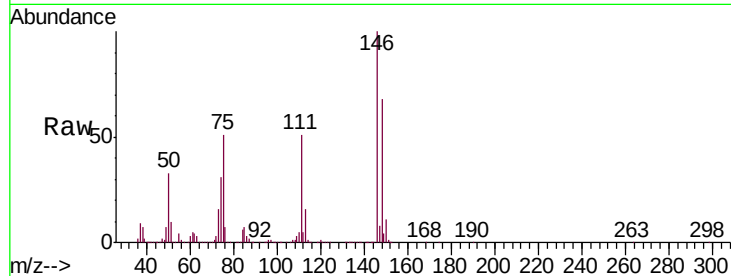




#76
 1,4-Dichlorobenzene
 Concen: 16.897 ppbv
 RT: 17.16 min Scan# 4469
 Delta R.T. -0.02 min
 Lab File: VL035403.D
 Acq: 13 Aug 2020 16:26

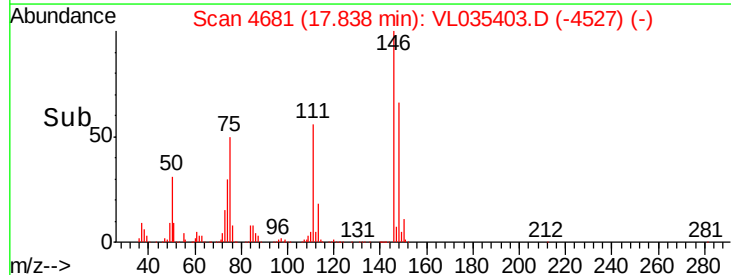
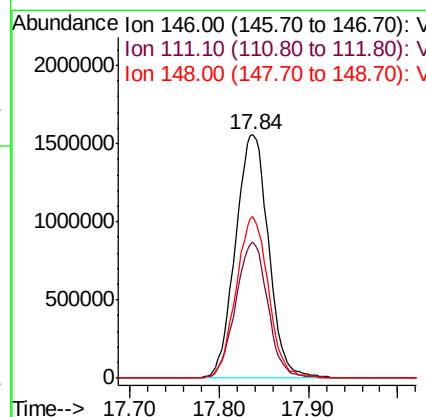
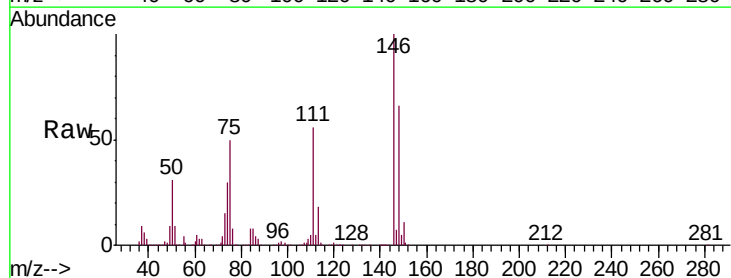
Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

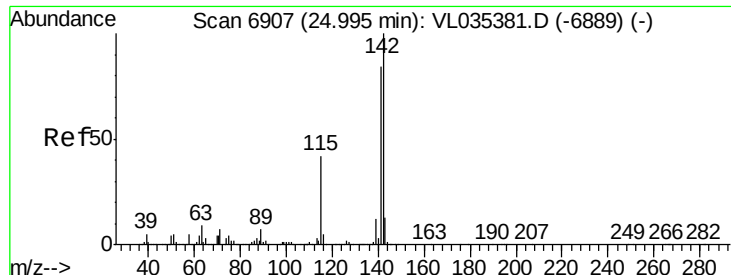
Tgt Ion:146 Resp: 4089760
 Ion Ratio Lower Upper
 146 100
 111 51.6 24.0 72.0
 148 65.7 32.5 97.5



#77
 1,2-Dichlorobenzene
 Concen: 16.862 ppbv
 RT: 17.84 min Scan# 4681
 Delta R.T. -0.01 min
 Lab File: VL035403.D
 Acq: 13 Aug 2020 16:26

Tgt Ion:146 Resp: 4006143
 Ion Ratio Lower Upper
 146 100
 111 54.3 25.9 77.8
 148 64.8 32.1 96.3





#80
 Naphthalene, 2-methyl-
 Concen: 0.061 ppbv
 RT: 24.99 min Scan# 6906
 Delta R.T. -0.00 min
 Lab File: VL035403.D
 Acq: 13 Aug 2020 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	79.3	67.7	101.5
115	49.6	34.0	51.0

