

Data File : VL035425.D
Acq On : 17 Aug 2020 17:23
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Aug 17 19:18:52 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 09:05:17 2020
QLast Update : Mon Aug 17 09:05:17 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1113287	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4904193	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4879738	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.45 95 3486524 8.44 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 84.40%

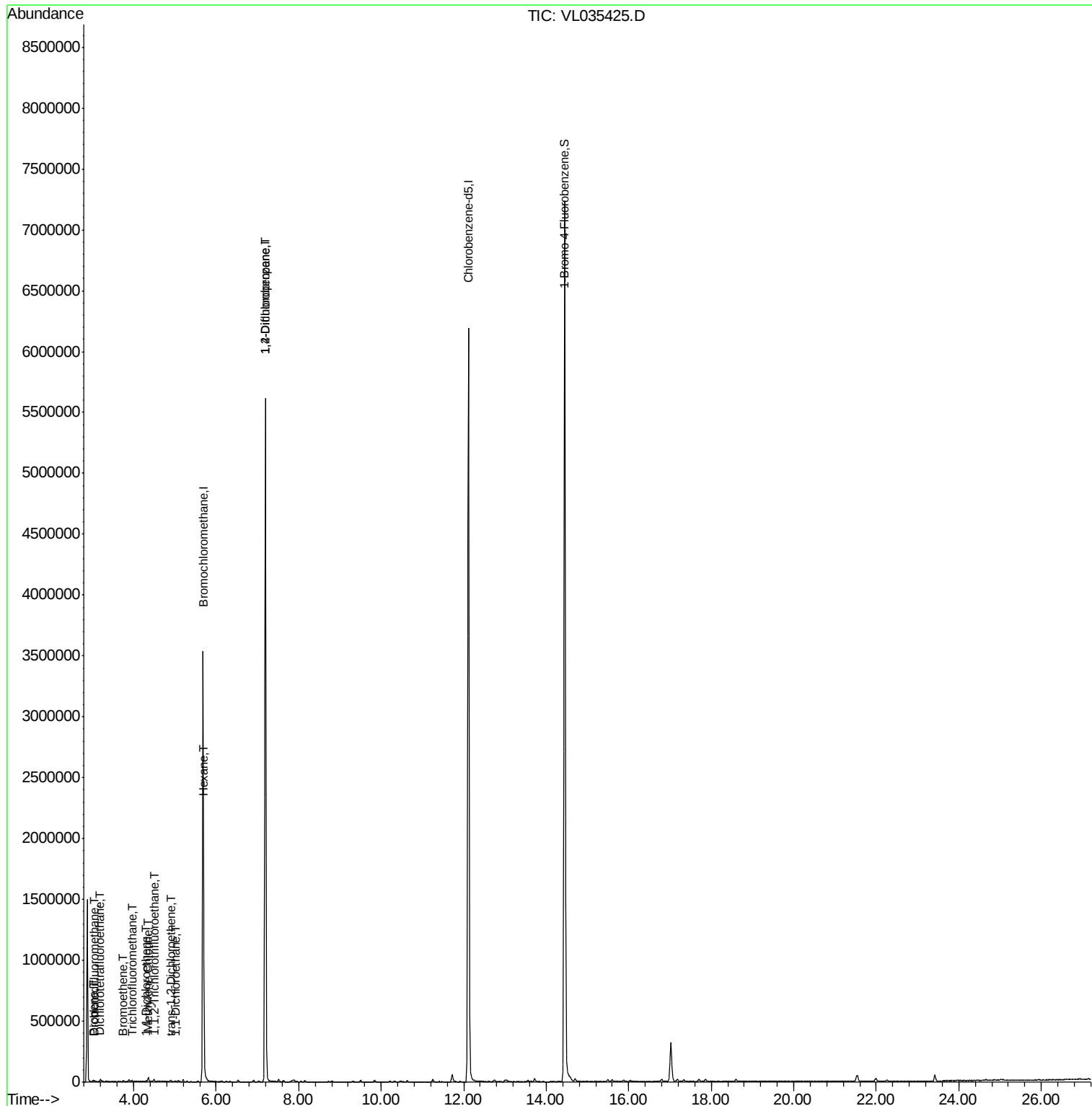
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	7844	0.053	ppbv	89
8) Dichlorotetrafluoroethane	3.19	85	6751	0.040	ppbv #	57
9) Propene	3.02	41	4124	0.061	ppbv	96
11) Trichlorofluoromethane	3.96	101	8114	0.046	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.49	101	3794	0.033	ppbv #	16
14) Bromoethene	3.75	108	1779	0.035	ppbv #	44
18) 1,1-Dichloroethene	4.30	96	1968	0.038	ppbv #	59
20) Methylene Chloride	4.35	84	14661	0.270	ppbv #	67
22) trans-1,2-Dichloroethene	4.90	96	2542	0.049	ppbv #	58
24) 1,1-Dichloroethane	5.02	63	4829	0.032	ppbv #	89
26) Hexane	5.70	57	4654	0.037	ppbv #	78
39) 1,2-Dichloropropane	7.19	63	853189	4.254	ppbv #	23

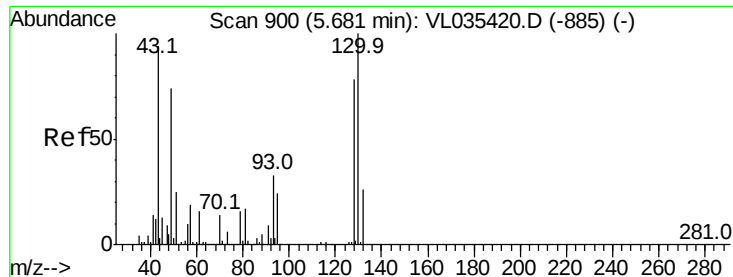
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL035425.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

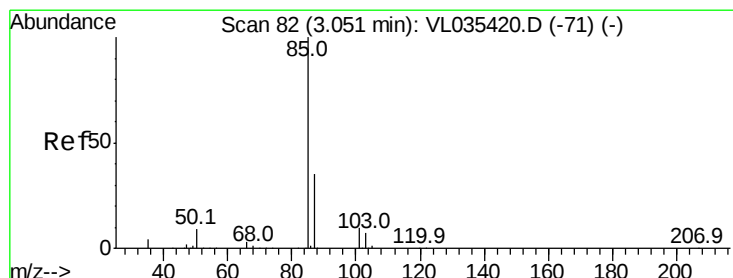
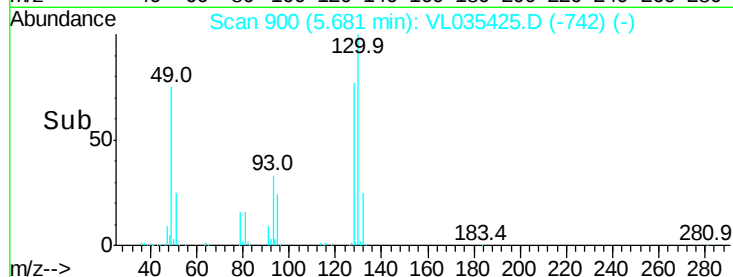
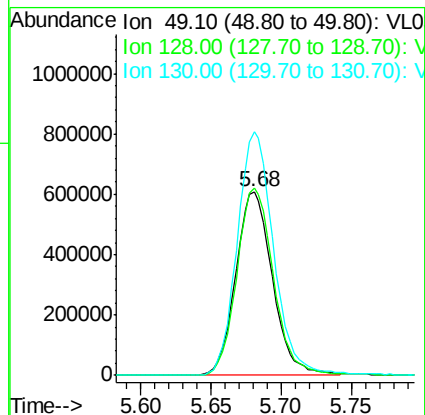
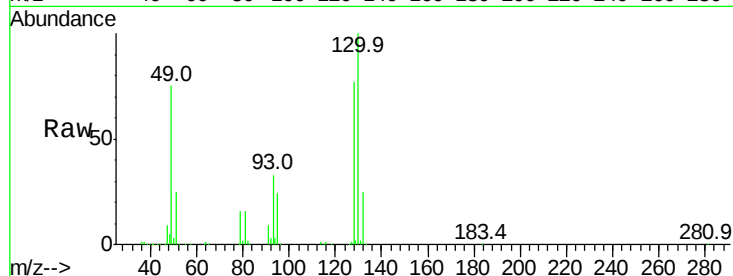
Tgt Ion: 49 Resp: 1113287

Ion Ratio Lower Upper

49 100

128 102.7 20.9 62.7#

130 132.7 26.7 80.1#



#2

Dichlorodifluoromethane

Concen: 0.053 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL035425.D

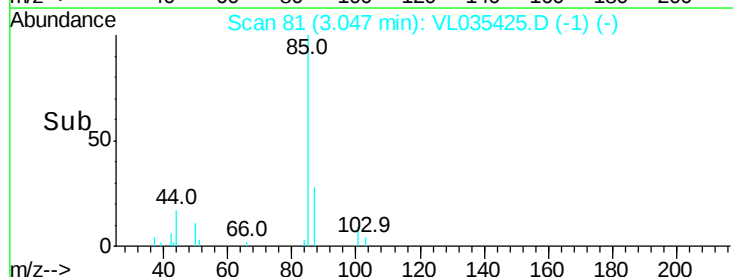
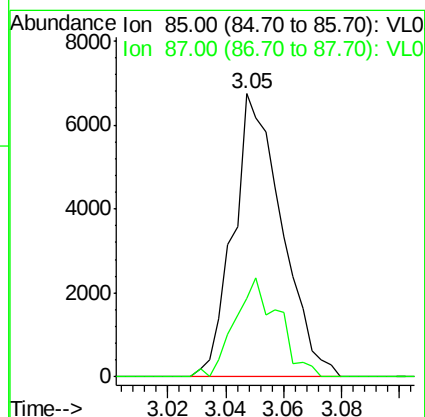
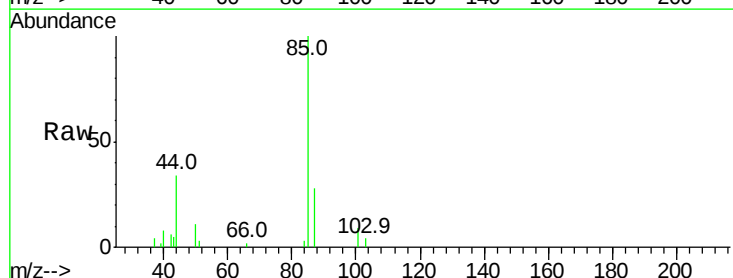
Acq: 17 Aug 2020 17:23

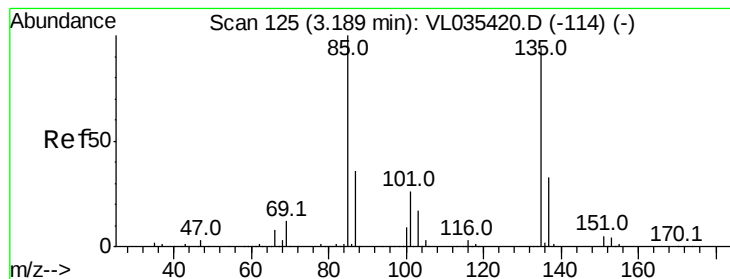
Tgt Ion: 85 Resp: 7844

Ion Ratio Lower Upper

85 100

87 27.6 27.1 40.7





#8

Dichlorotetrafluoroethane

Concen: 0.040 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.01 min

Lab File: VL035425.D

Acq: 17 Aug 2020 17:23

Instrument :

MSVOA_L

ClientSampleId :

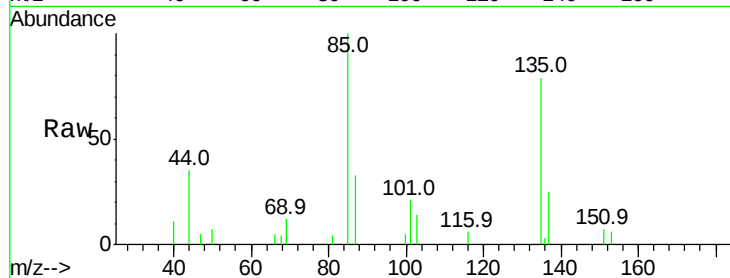
VSTDIC0.03

Tgt Ion: 85 Resp: 6751

Ion Ratio Lower Upper

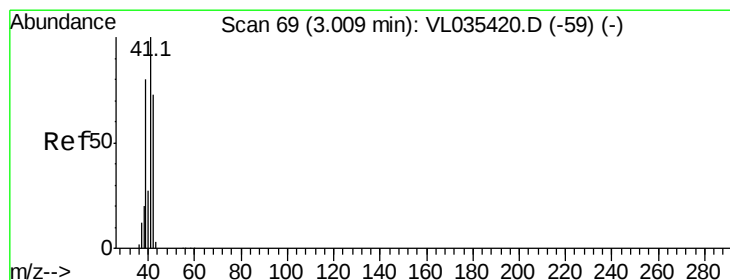
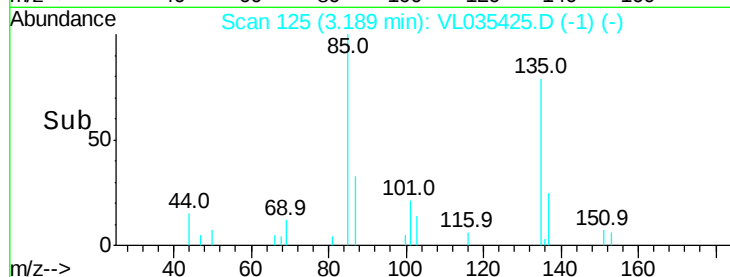
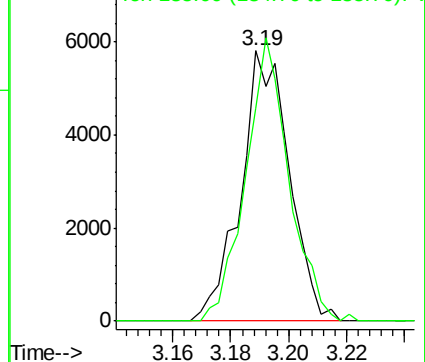
85 100

135 93.6 48.6 72.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.061 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035425.D

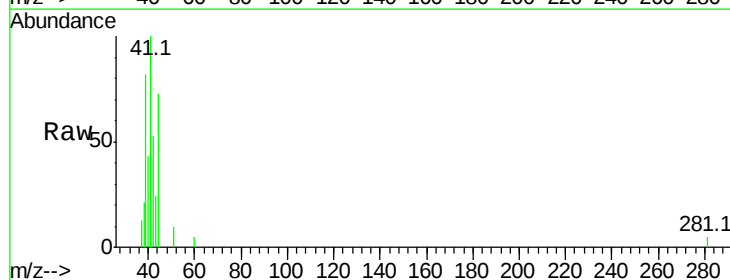
Acq: 17 Aug 2020 17:23

Tgt Ion: 41 Resp: 4124

Ion Ratio Lower Upper

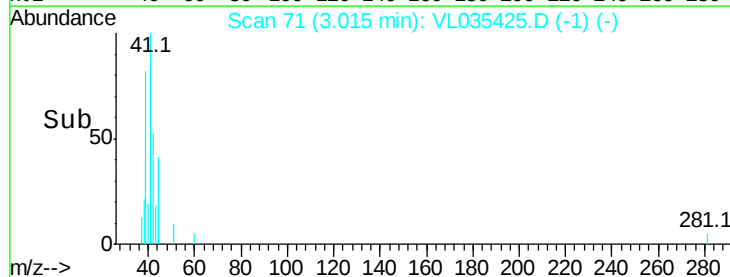
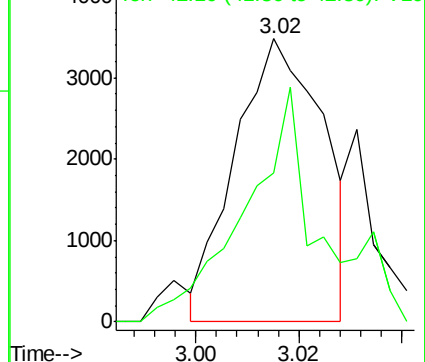
41 100

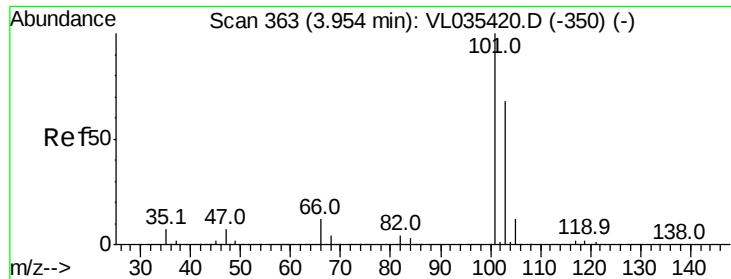
42 72.8 55.5 83.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.046 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL035425.D

Acq: 17 Aug 2020 17:23

Instrument :

MSVOA_L

ClientSampleId :

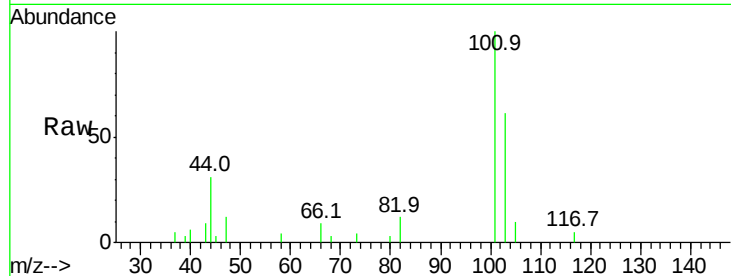
VSTDIC0.03

Tgt Ion:101 Resp: 8114

Ion Ratio Lower Upper

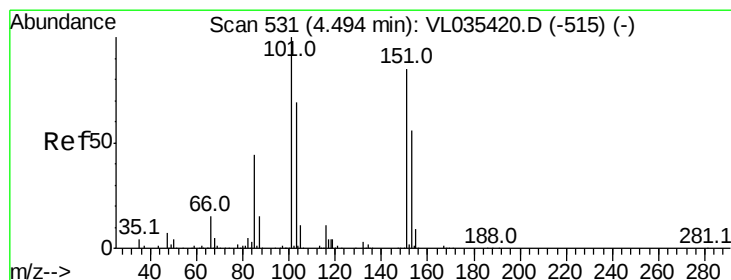
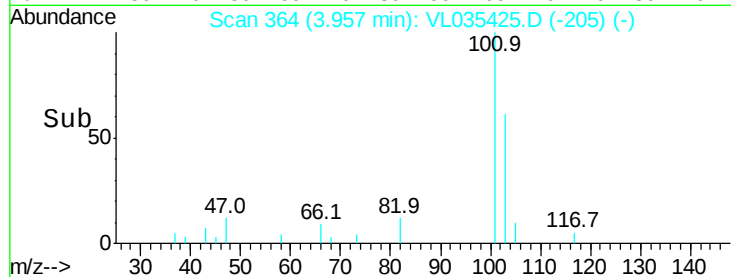
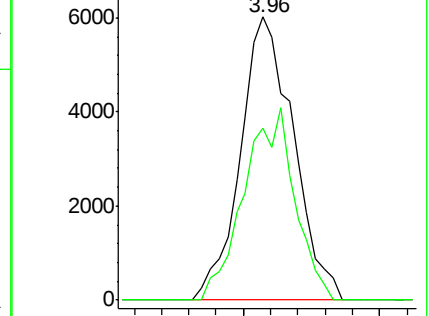
101 100

103 60.7 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: 0.033 ppbv

RT: 4.49 min Scan# 530

Delta R.T. 0.01 min

Lab File: VL035425.D

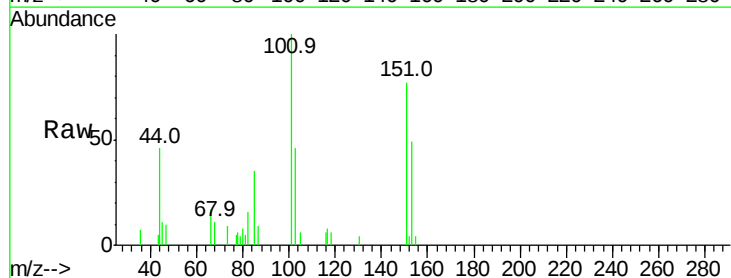
Acq: 17 Aug 2020 17:23

Tgt Ion:101 Resp: 3794

Ion Ratio Lower Upper

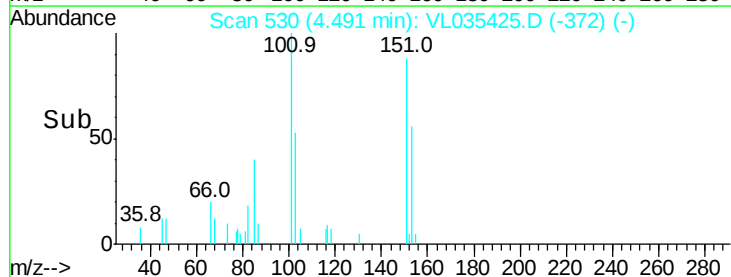
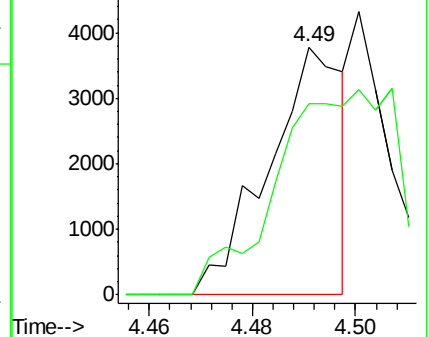
101 100

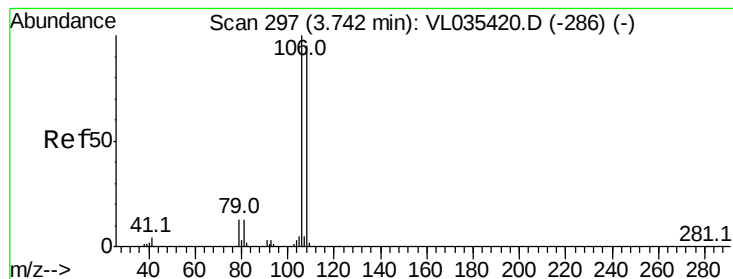
151 0.0 53.6 80.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.035 ppbv

RT: 3.75 min Scan# 299

Delta R.T. 0.01 min

Lab File: VL035425.D

Acq: 17 Aug 2020 17:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

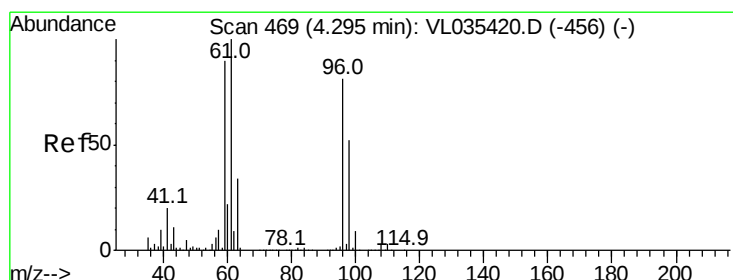
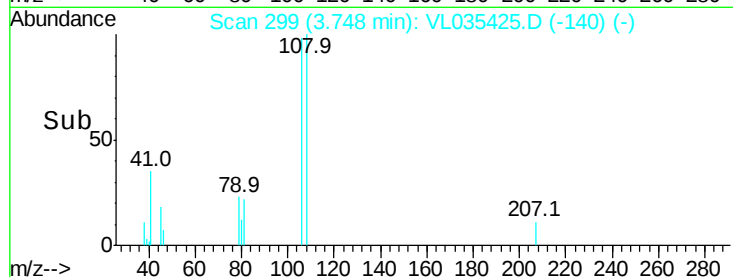
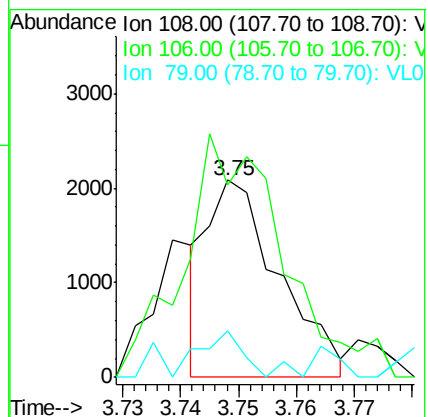
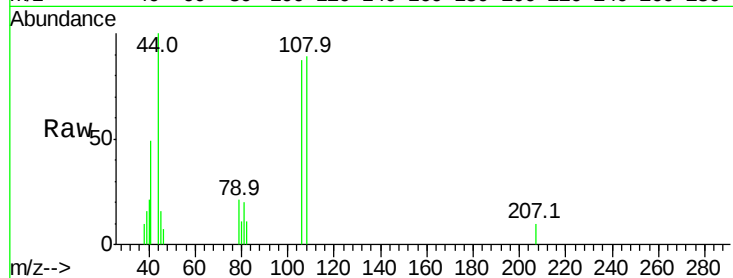
Tgt Ion:108 Resp: 1779

Ion Ratio Lower Upper

108 100

106 173.9 86.7 130.1#

79 32.3 16.8 25.2#



#18

1,1-Dichloroethene

Concen: 0.038 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL035425.D

Acq: 17 Aug 2020 17:23

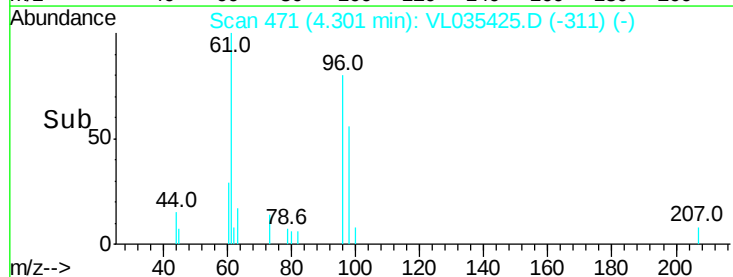
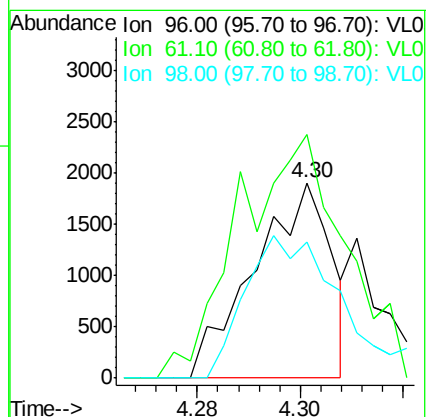
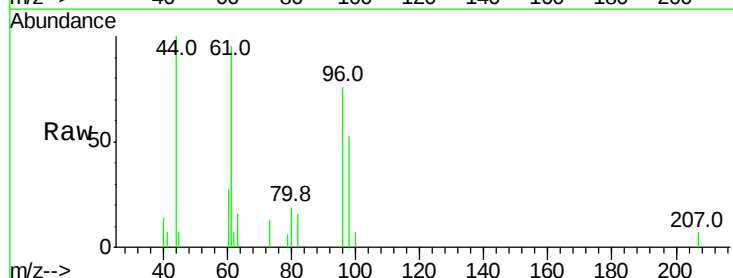
Tgt Ion: 96 Resp: 1968

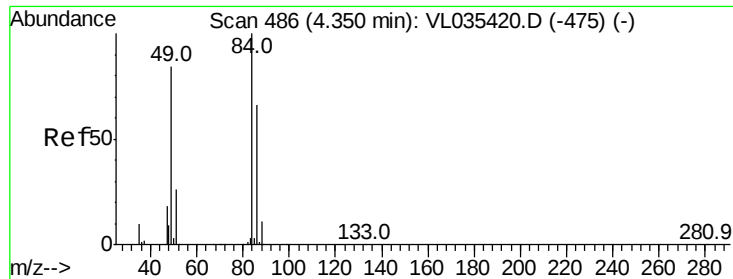
Ion Ratio Lower Upper

96 100

61 125.8 161.8 242.6#

98 69.4 49.3 73.9

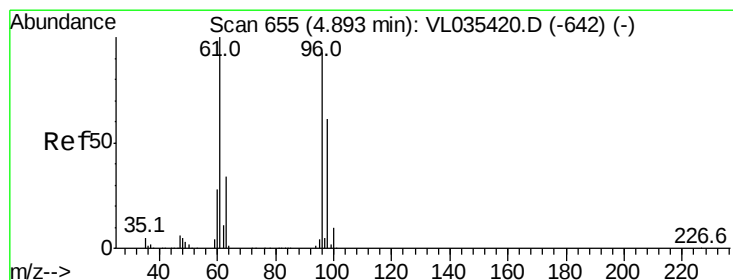
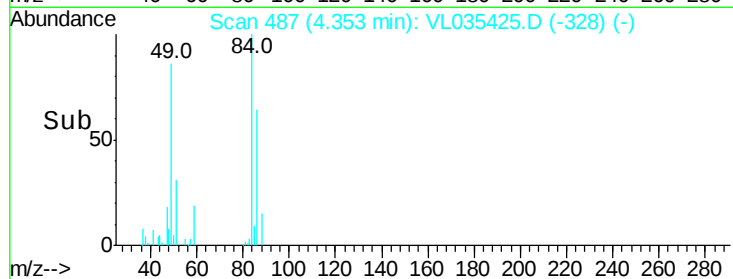
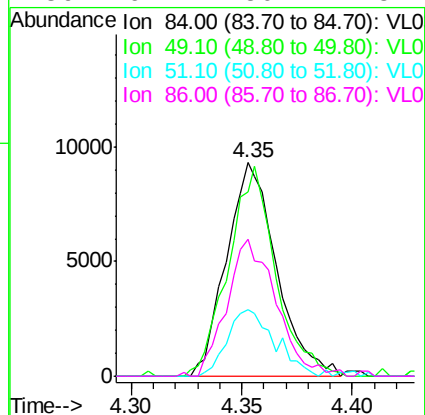
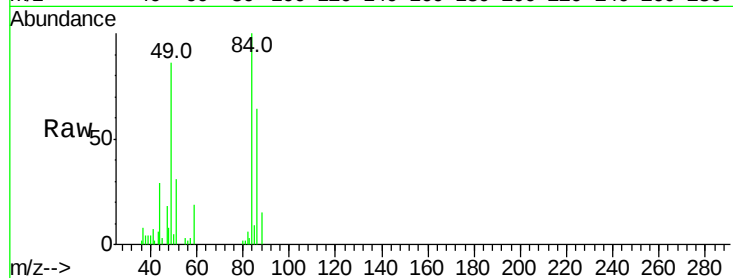




#20
Methylene Chloride
Concen: 0.270 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.01 min
Lab File: VL035425.D
Acq: 17 Aug 2020 17:23

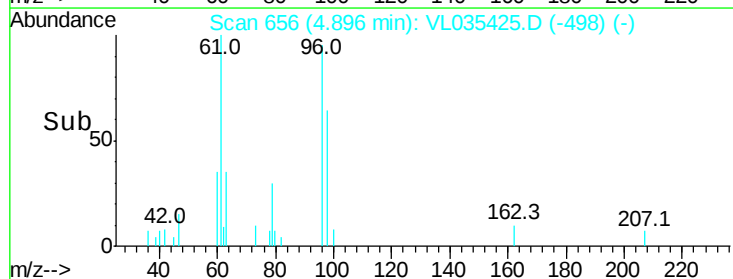
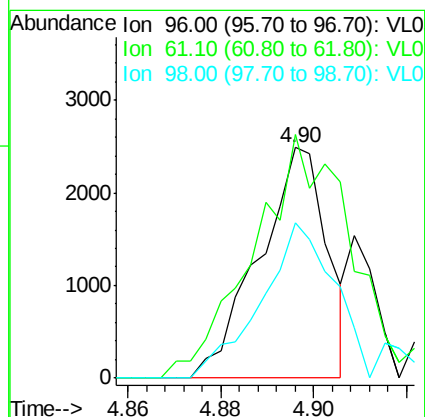
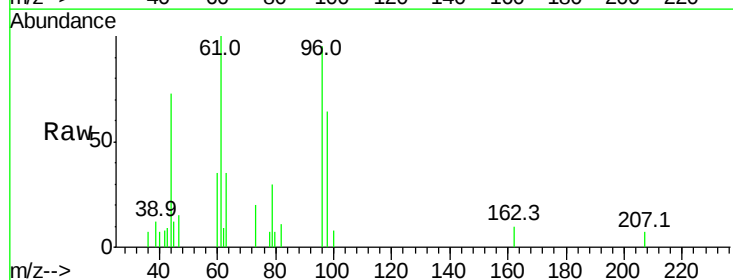
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

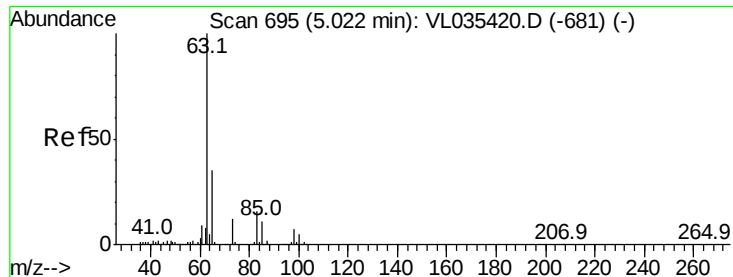
Tgt Ion:	84	Resp:	14661
Ion	Ratio	Lower	Upper
84	100		
49	84.5	118.6	177.8#
51	31.4	36.4	54.6#
86	64.1	50.2	75.4



#22
trans-1,2-Dichloroethene
Concen: 0.049 ppbv
RT: 4.90 min Scan# 656
Delta R.T. 0.01 min
Lab File: VL035425.D
Acq: 17 Aug 2020 17:23

Tgt Ion:	96	Resp:	2542
Ion	Ratio	Lower	Upper
96	100		
61	98.1	142.2	213.2#
98	67.6	51.8	77.8





#24

1,1-Dichloroethane

Concen: 0.032 ppbv

RT: 5.02 min Scan# 695

Delta R.T. 0.01 min

Lab File: VL035425.D

Acq: 17 Aug 2020 17:23

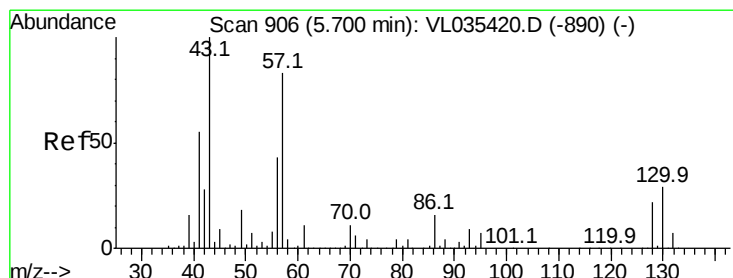
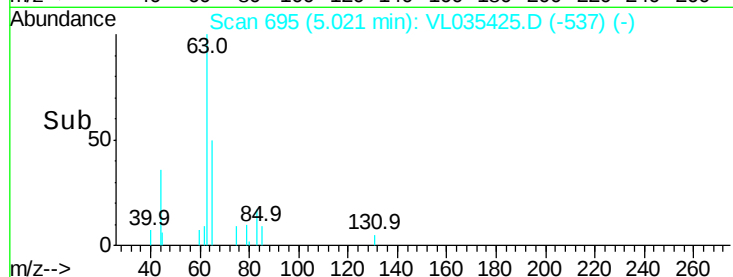
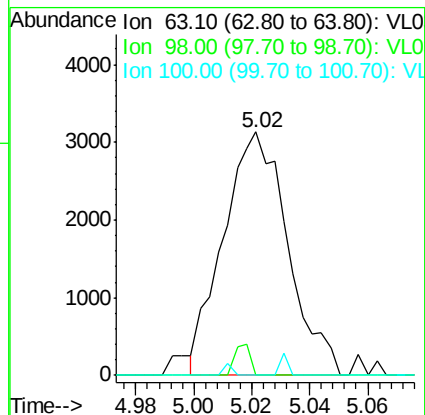
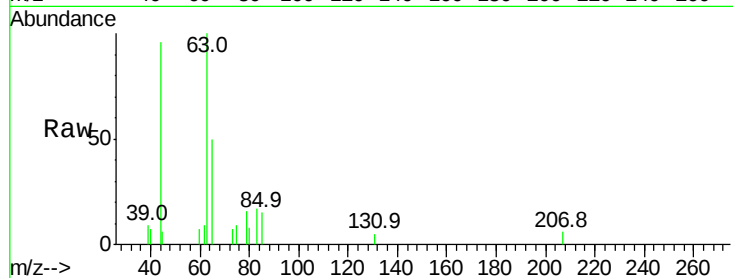
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:	63	Resp:	4829
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.5#
100	0.0	1.3	3.8#



#26

Hexane

Concen: 0.037 ppbv

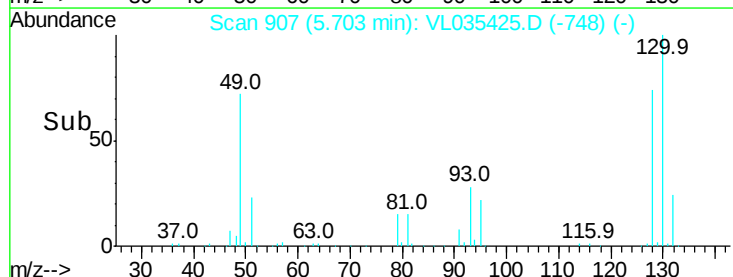
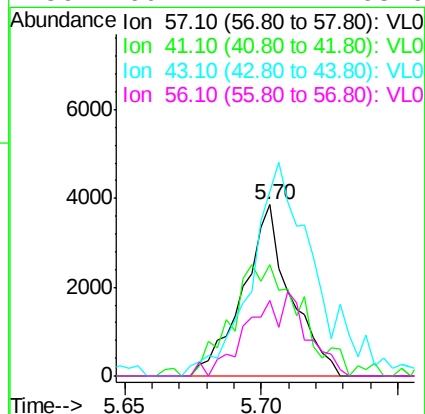
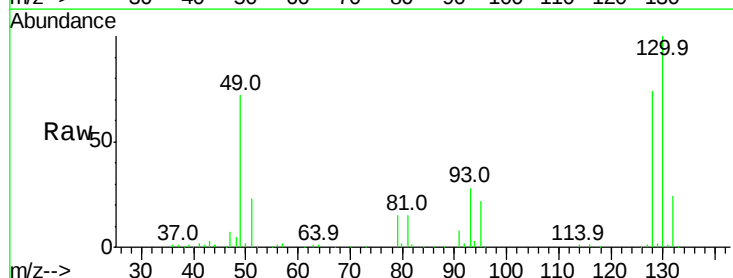
RT: 5.70 min Scan# 907

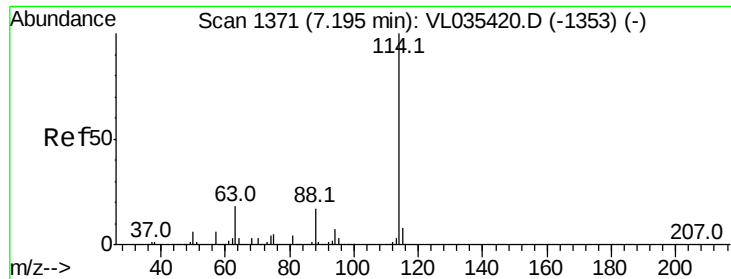
Delta R.T. 0.01 min

Lab File: VL035425.D

Acq: 17 Aug 2020 17:23

Tgt Ion:	57	Resp:	4654
Ion	Ratio	Lower	Upper
57	100		
41	97.8	75.5	113.3
43	175.0	181.7	272.5#
56	60.4	42.4	63.6

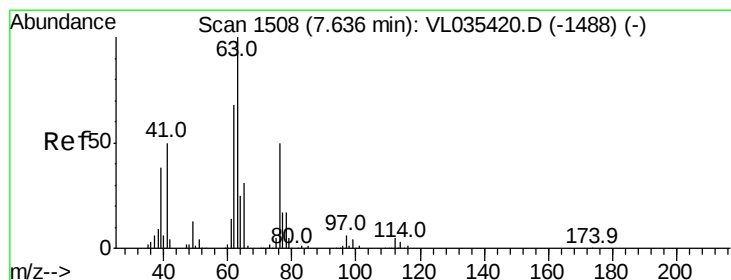
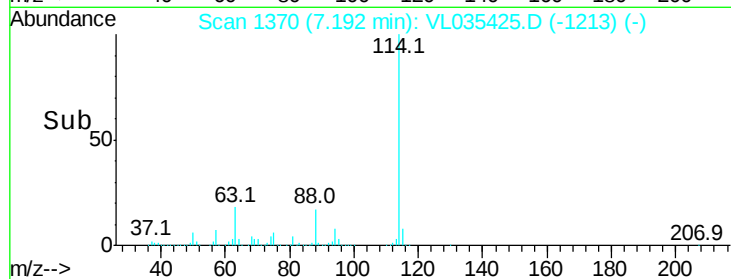
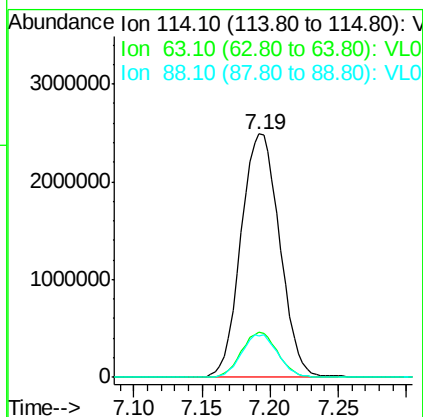
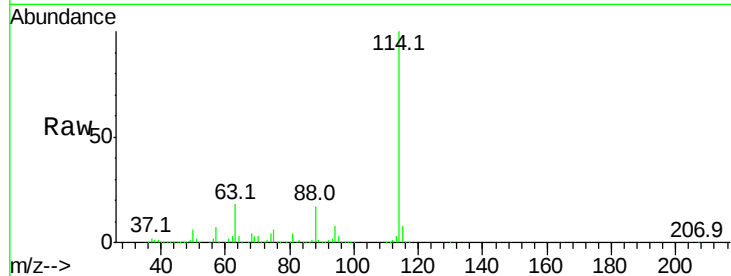




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.00 min
 Lab File: VL035425.D
 Acq: 17 Aug 2020 17:23

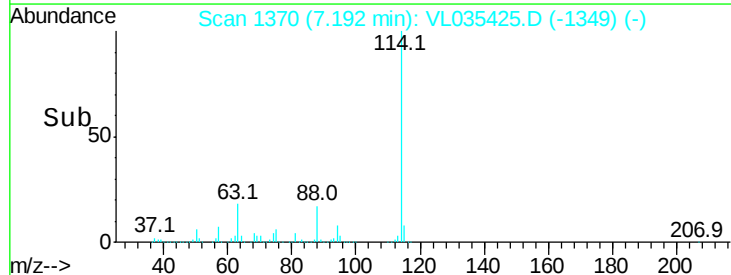
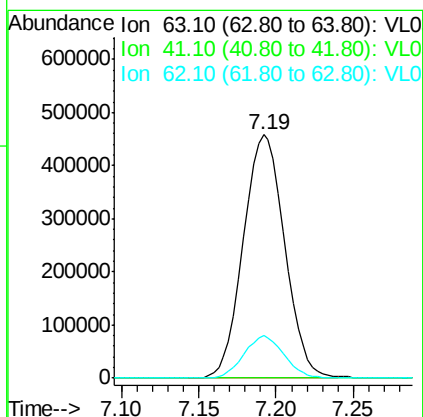
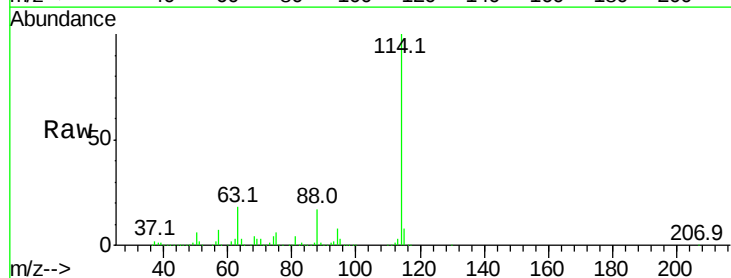
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

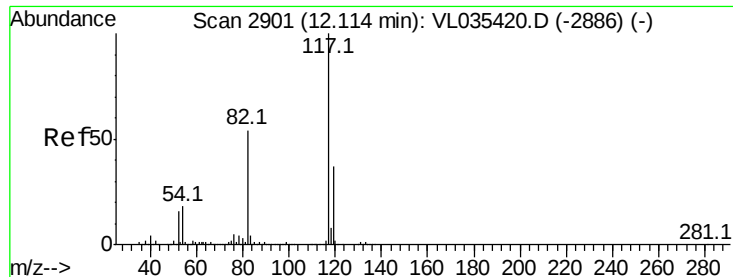
Tgt Ion: 114 Resp: 4904193
 Ion Ratio Lower Upper
 114 100
 63 17.5 23.1 34.7#
 88 16.5 15.9 23.9



#39
 1,2-Dichloropropane
 Concen: 4.254 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.43 min
 Lab File: VL035425.D
 Acq: 17 Aug 2020 17:23

Tgt Ion: 63 Resp: 853189
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.1 91.7#
 62 17.3 55.3 82.9#

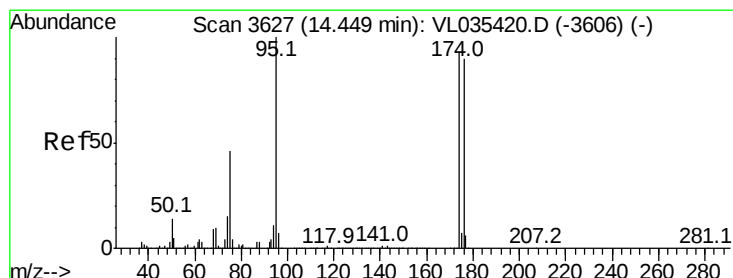
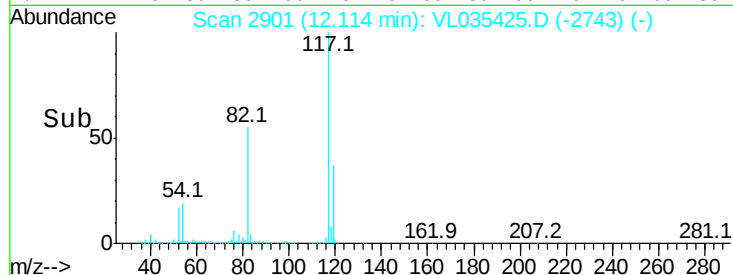
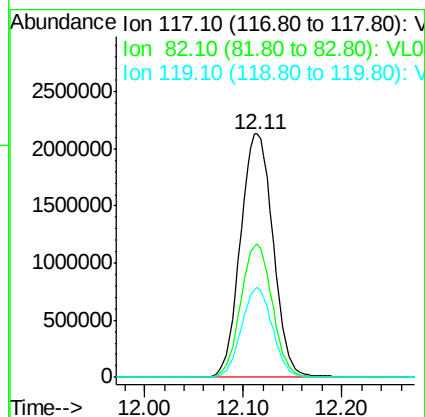
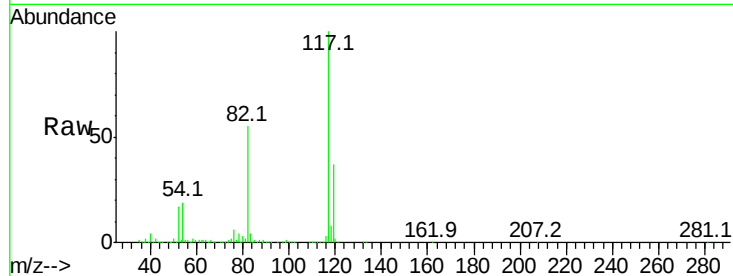




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.01 min
Lab File: VL035425.D
Acq: 17 Aug 2020 17:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 117 Resp: 4879738
Ion Ratio Lower Upper
117 100
82 53.4 57.4 86.0#
119 35.2 28.4 42.6



#68
1-Bromo-4-Fluorobenzene
Concen: 8.437 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. 0.01 min
Lab File: VL035425.D
Acq: 17 Aug 2020 17:23

Tgt Ion: 95 Resp: 3486524
Ion Ratio Lower Upper
95 100
174 97.5 44.0 66.0#
175 7.2 3.2 4.8#

