

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082720\
 Data File : VL035510.D
 Acq On : 27 Aug 2020 5:20
 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 27 06:34:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 05:32:47 2020
 QLast Update : Thu Aug 27 05:32:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1037075	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4429438	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4457802	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3232414	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

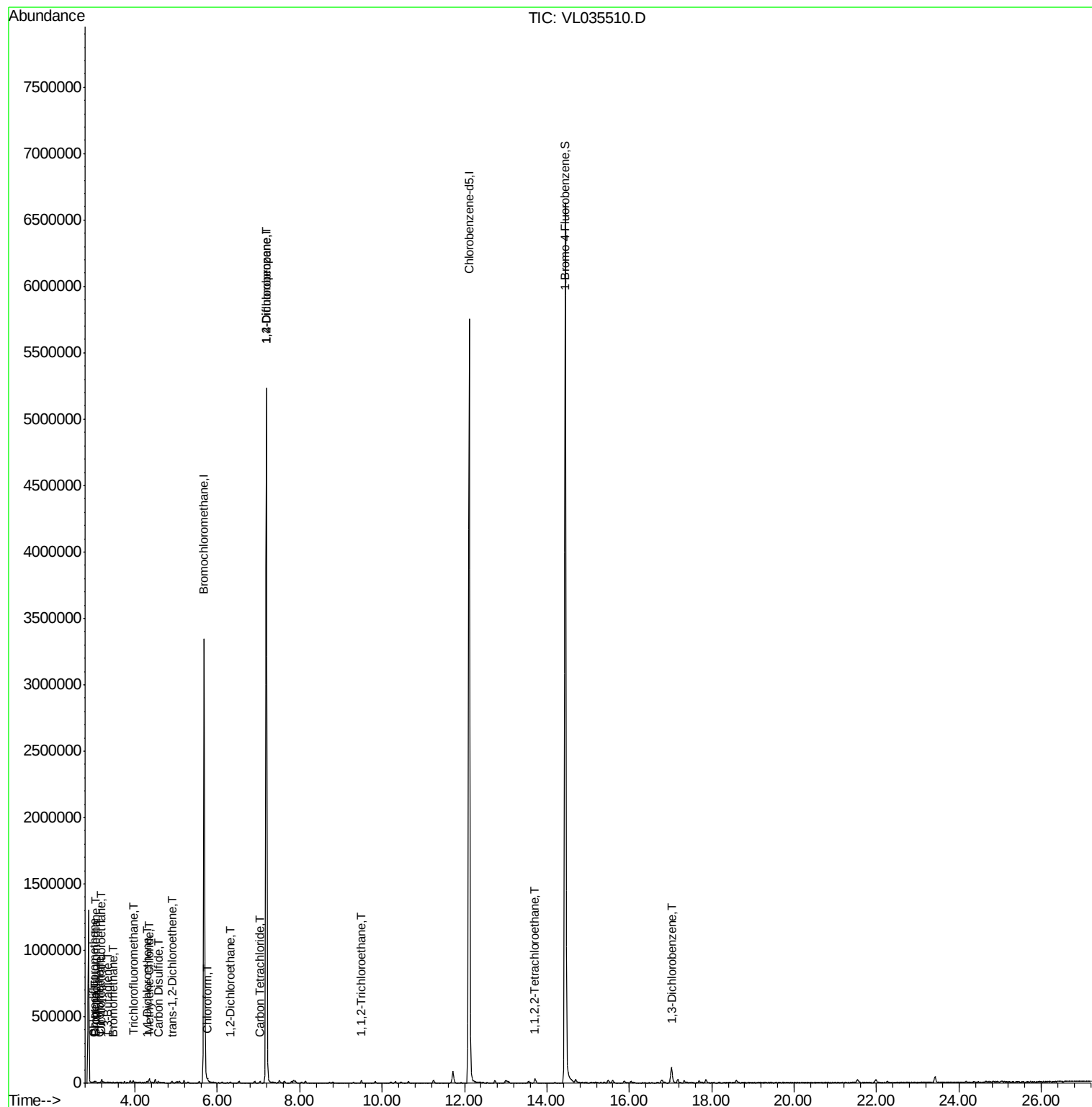
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	10019	0.053 ppbv	95
3) Chlorodifluoromethane	2.99	51	5117	0.044 ppbv	91
4) Chloromethane	3.14	50	2514	0.041 ppbv #	76
6) Bromomethane	3.47	94	2623	0.040 ppbv #	66
8) Dichlorotetrafluoroethane	3.19	85	9598	0.043 ppbv	97
9) Propene	3.02	41	4996	0.110 ppbv	84
11) Trichlorofluoromethane	3.96	101	11814	0.043 ppbv	93
16) 1,3-Butadiene	3.33	39	1362	0.031 ppbv	85
18) 1,1-Dichloroethene	4.29	96	2877	0.032 ppbv #	64
20) Methylene Chloride	4.35	84	11080	0.093 ppbv #	91
22) trans-1,2-Dichloroethene	4.90	96	4381	0.046 ppbv	94
27) Carbon Disulfide	4.56	76	5372	0.032 ppbv #	37
29) Chloroform	5.76	83	11620	0.048 ppbv	95
35) Carbon Tetrachloride	7.03	117	7756	0.036 ppbv #	75
37) 1,2-Dichloroethane	6.31	62	6310	0.046 ppbv	98
39) 1,2-Dichloropropane	7.19	63	800502	8.205 ppbv #	33
47) 1,1,2-Trichloroethane	9.50	97	5254	0.036 ppbv #	89
63) 1,1,2,2-Tetrachloroethane	13.71	83	12380	0.043 ppbv	96
75) 1,3-Dichlorobenzene	17.03	146	14815	0.039 ppbv	86

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

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Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Aug 27 06:34:51 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 05:32:47 2020
QLast Update : Thu Aug 27 05:32:47 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL035510.D

Acq: 27 Aug 2020 5:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

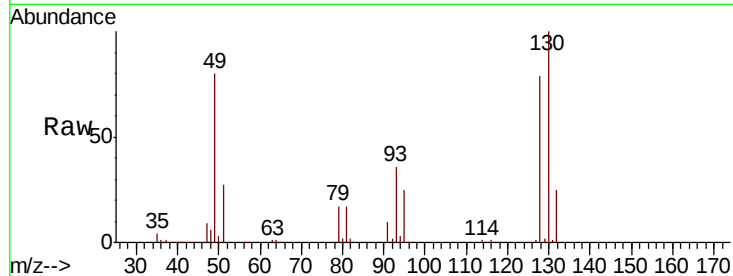
Tot Ion: 49 Resp: 1037075

Ion Ratio Lower Upper

49 100

128 99.6 50.0 150.1

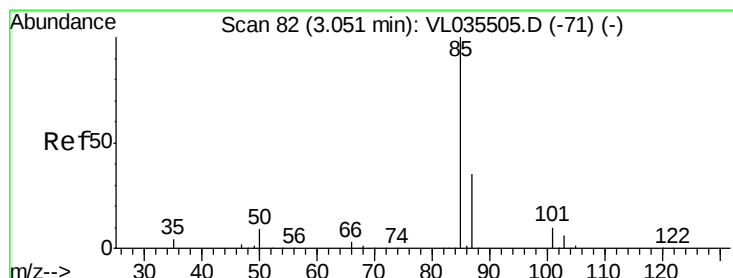
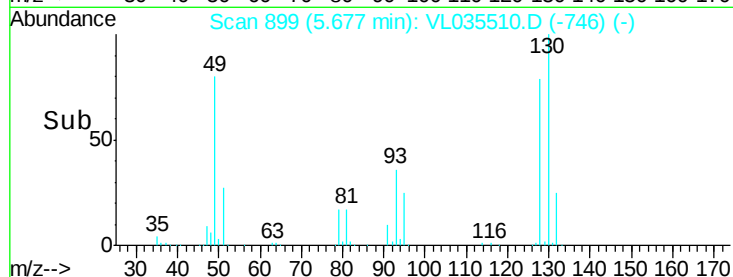
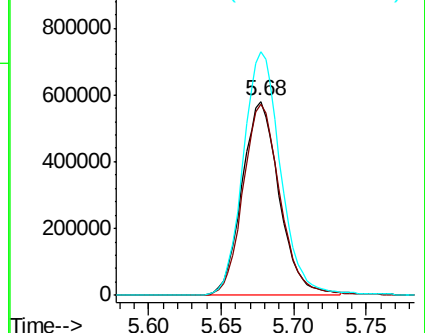
130 127.6 64.4 193.2



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: 0.053 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL035510.D

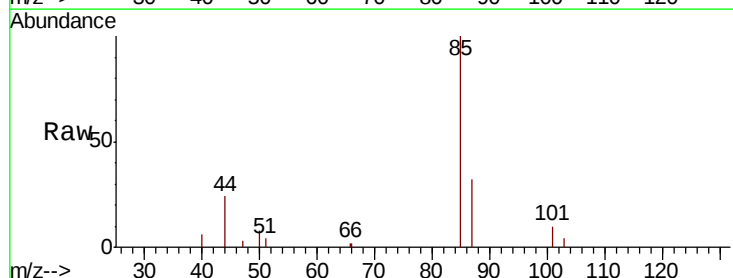
Acq: 27 Aug 2020 5:20

Tgt Ion: 85 Resp: 10019

Ion Ratio Lower Upper

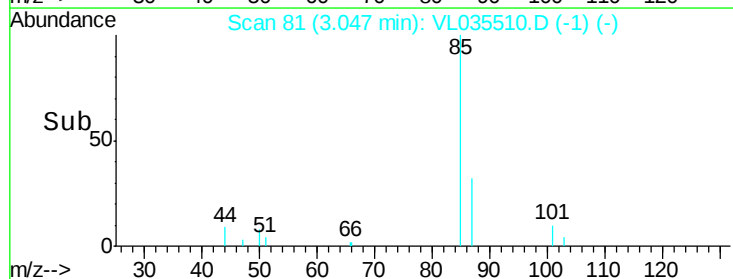
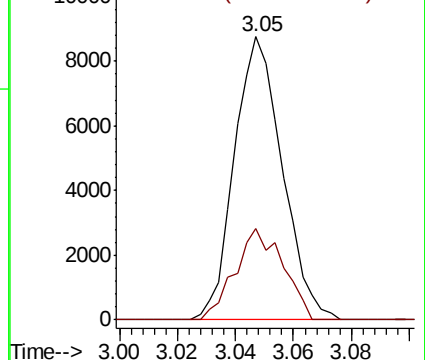
85 100

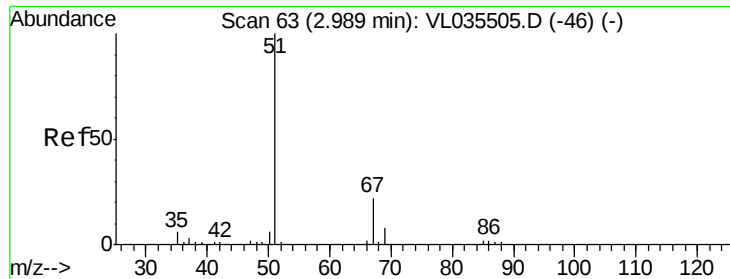
87 32.3 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.044 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL035510.D

Acq: 27 Aug 2020 5:20

Instrument :

MSVOA_L

ClientSampleId :

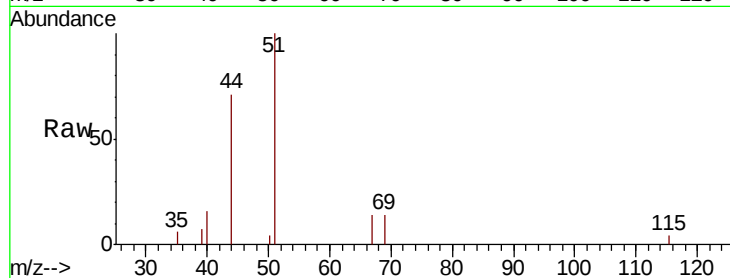
VSTDIC0.03

Tot Ion: 51 Resp: 5117

Ion Ratio Lower Upper

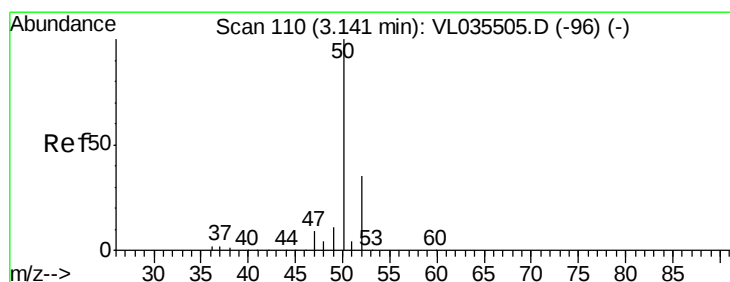
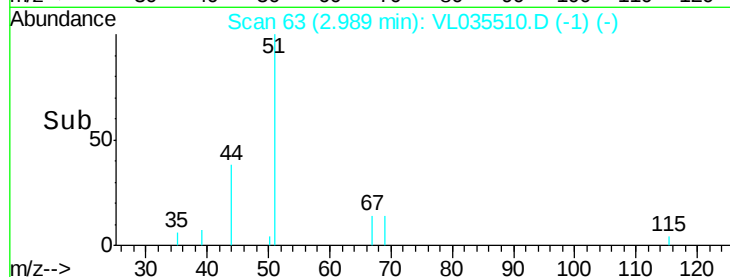
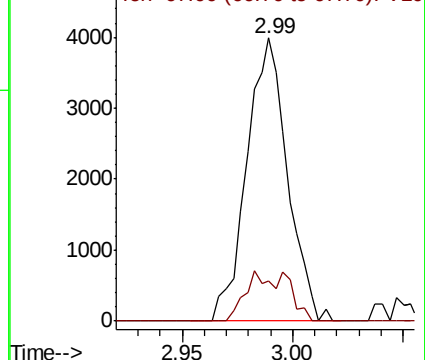
51 100

67 18.1 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.041 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL035510.D

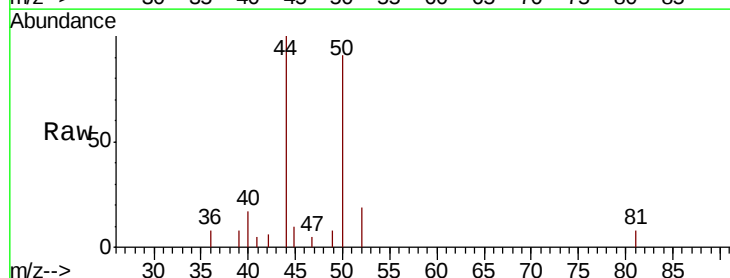
Acq: 27 Aug 2020 5:20

Tgt Ion: 50 Resp: 2514

Ion Ratio Lower Upper

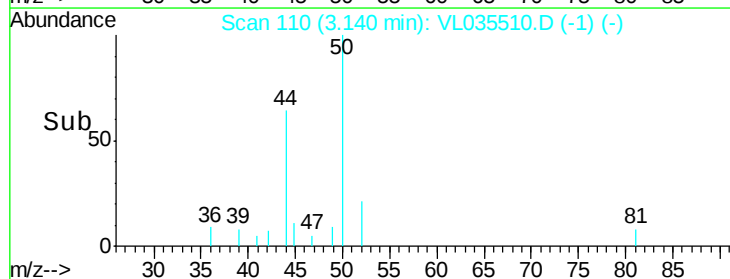
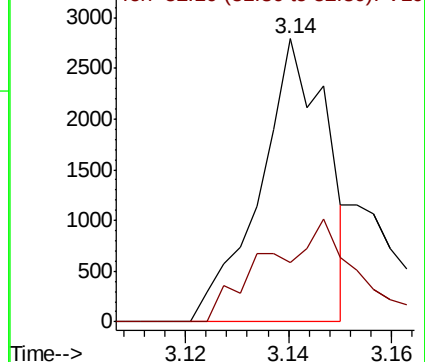
50 100

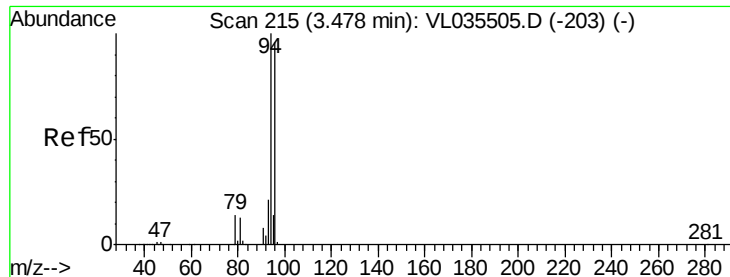
52 20.8 27.7 41.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#6

Bromomethane

Concen: 0.040 ppbv

RT: 3.47 min Scan# 214

Delta R.T. -0.00 min

Lab File: VL035510.D

Acq: 27 Aug 2020 5:20

Instrument :

MSVOA_L

ClientSampleId :

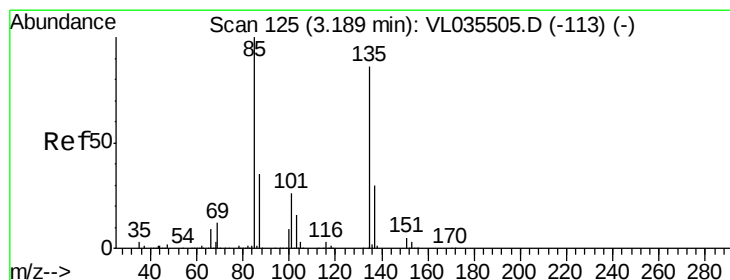
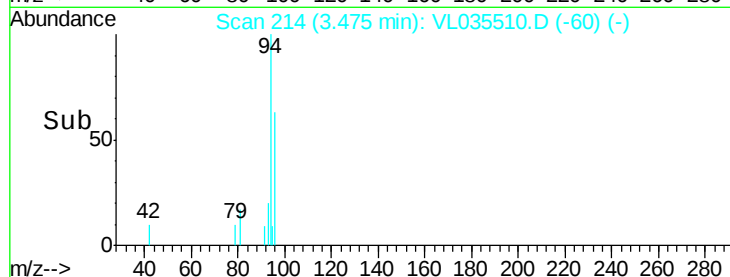
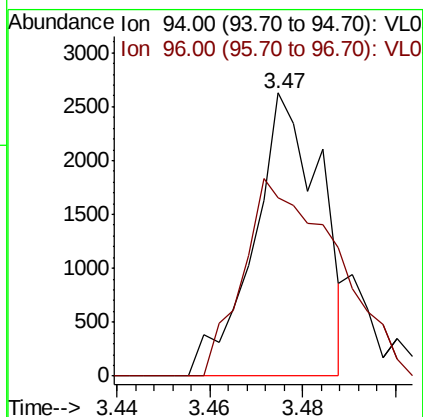
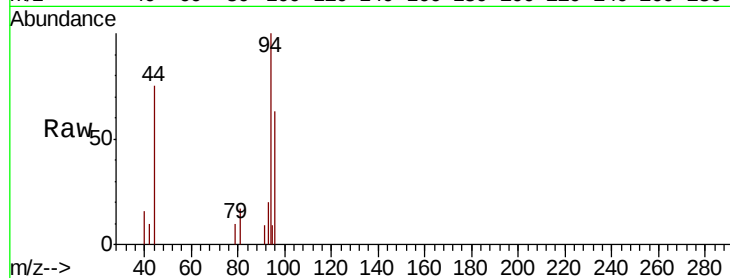
VSTDIC0.03

Tot Ion: 94 Resp: 2623

Ion Ratio Lower Upper

94 100

96 63.1 77.1 115.7#



#8

Dichlorotetrafluoroethane

Concen: 0.043 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.00 min

Lab File: VL035510.D

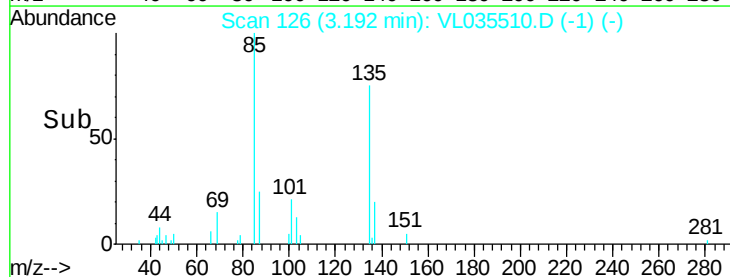
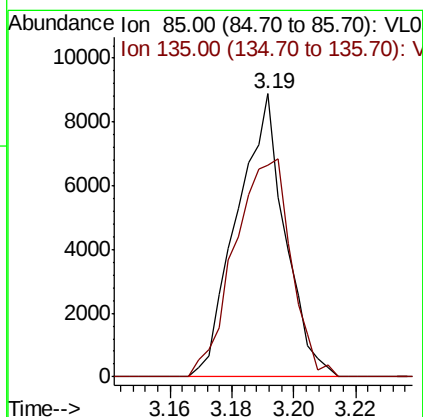
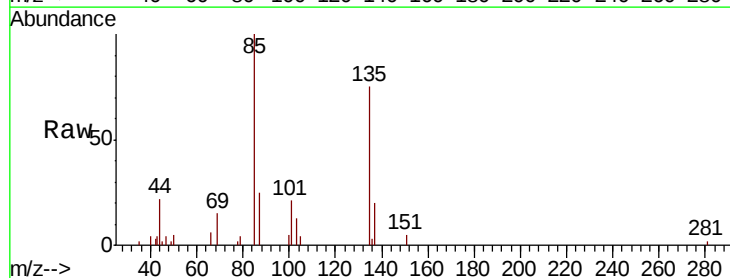
Acq: 27 Aug 2020 5:20

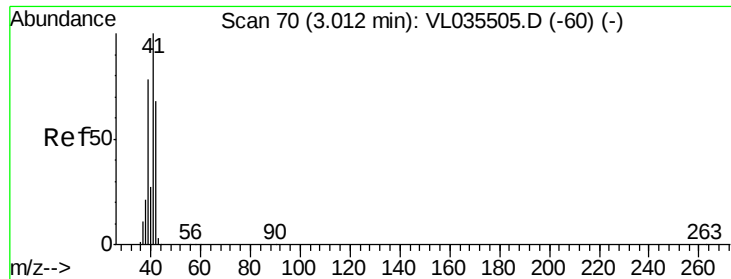
Tgt Ion: 85 Resp: 9598

Ion Ratio Lower Upper

85 100

135 90.7 70.4 105.6





#9

Propene

Concen: 0.110 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL035510.D

Acq: 27 Aug 2020 5:20

Instrument :

MSVOA_L

ClientSampleId :

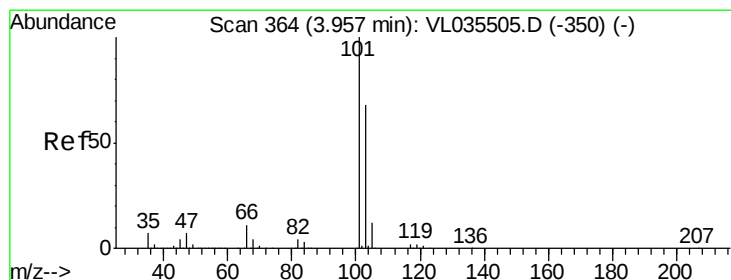
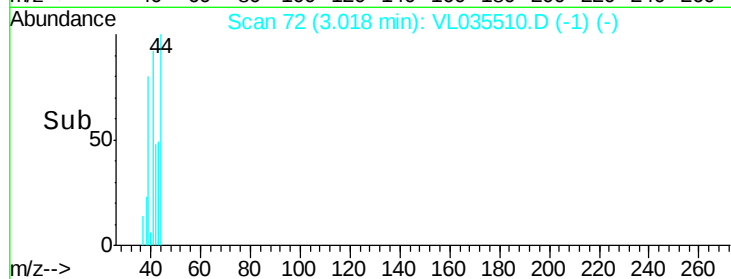
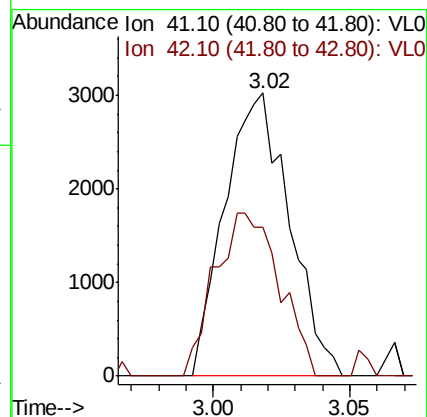
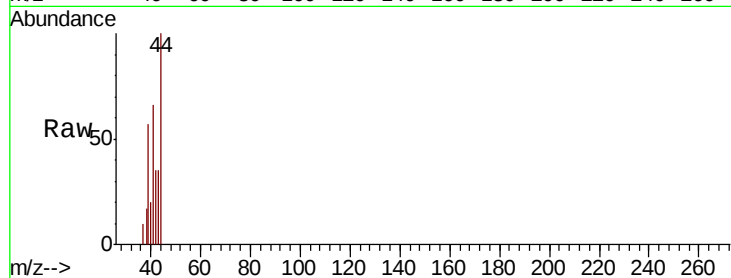
VSTDIC0.03

Tot Ion: 41 Resp: 4996

Ion Ratio Lower Upper

41 100

42 57.4 56.3 84.5



#11

Trichlorofluoromethane

Concen: 0.043 ppbv

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL035510.D

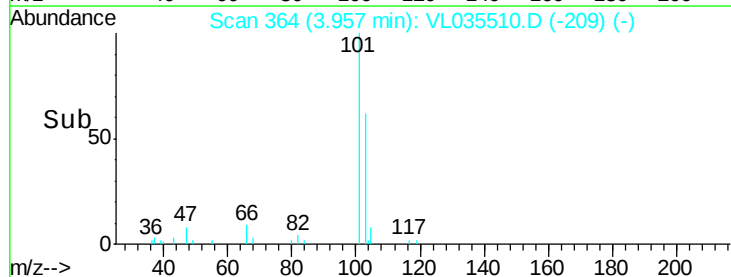
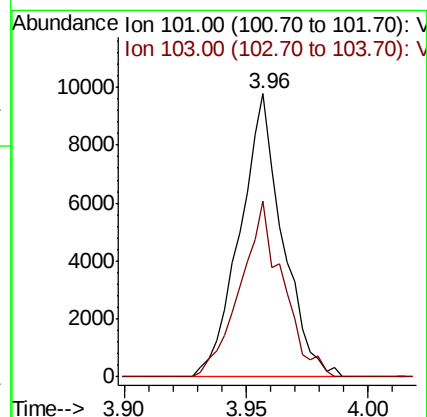
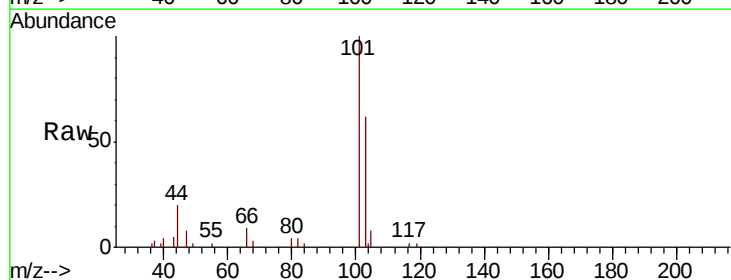
Acq: 27 Aug 2020 5:20

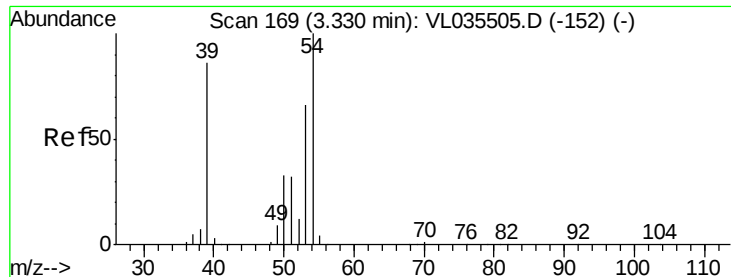
Tgt Ion: 101 Resp: 11814

Ion Ratio Lower Upper

101 100

103 62.1 54.5 81.7

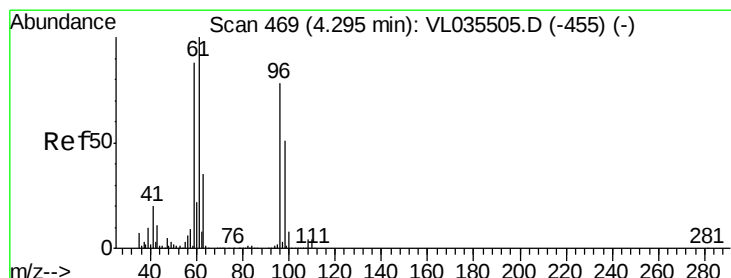
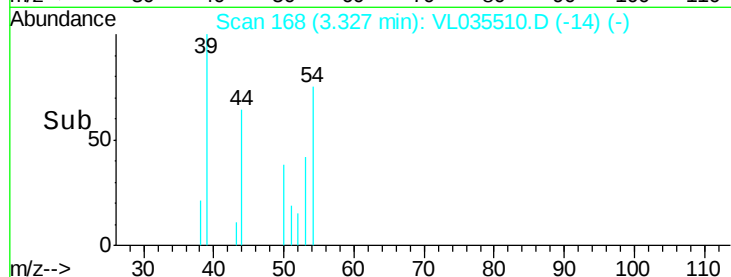
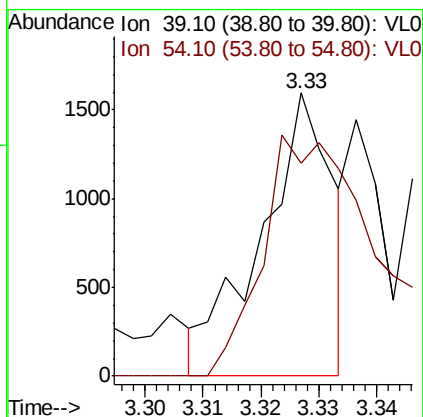
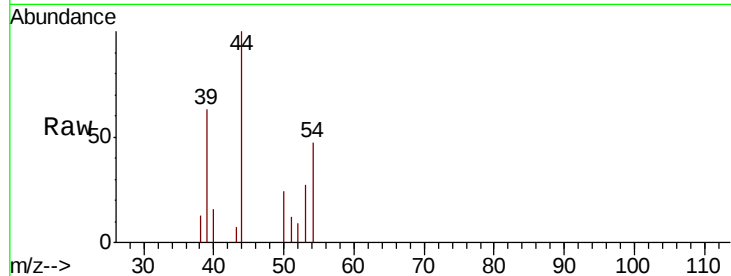




#16
 1,3-Butadiene
 Concen: 0.031 ppbv
 RT: 3.33 min Scan# 168
 Delta R.T. -0.00 min
 Lab File: VL035510.D
 Acq: 27 Aug 2020 5:20

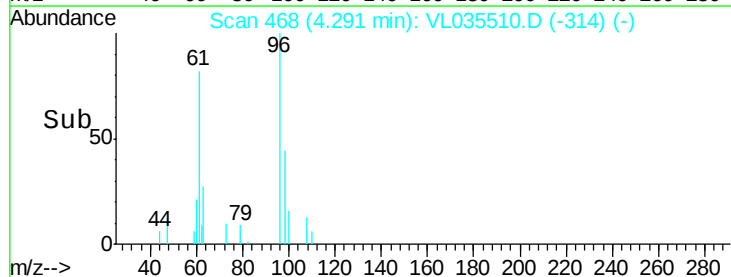
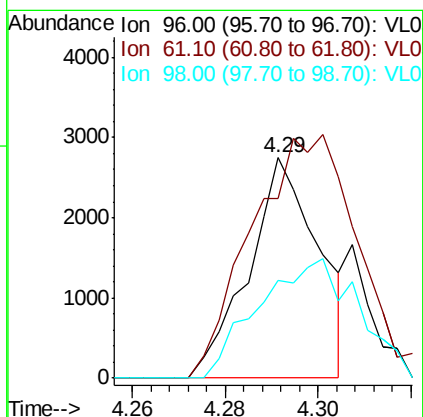
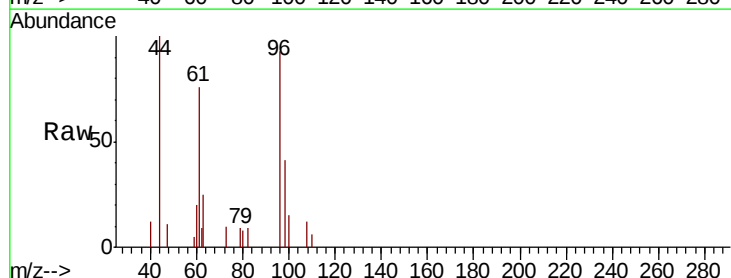
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

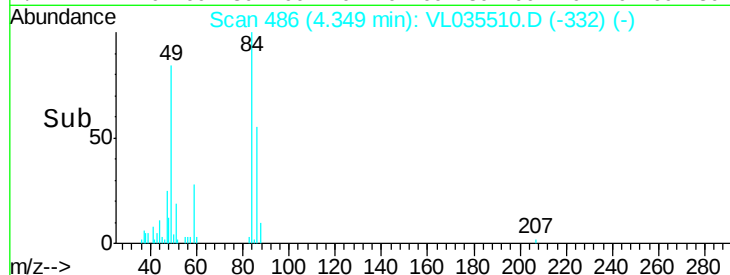
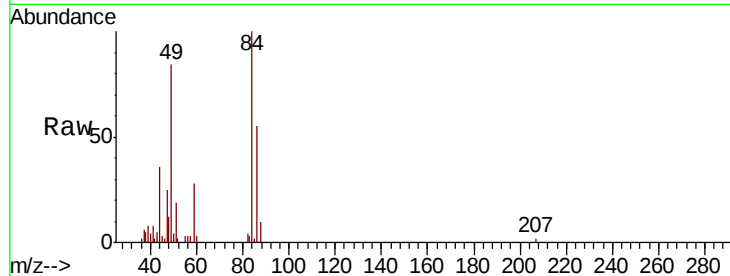
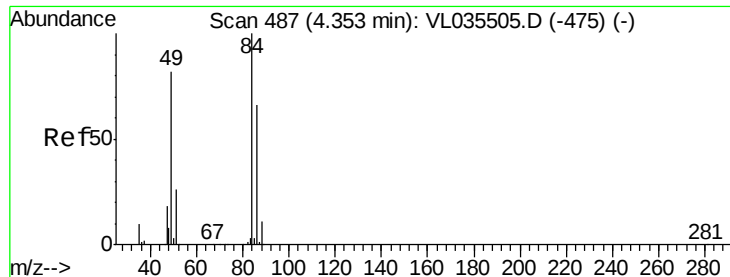
Tot Ion: 39 Resp: 1362
 Ion Ratio Lower Upper
 39 100
 54 126.7 88.4 132.6



#18
 1,1-Dichloroethene
 Concen: 0.032 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. -0.00 min
 Lab File: VL035510.D
 Acq: 27 Aug 2020 5:20

Tgt Ion: 96 Resp: 2877
 Ion Ratio Lower Upper
 96 100
 61 81.7 103.0 154.6#
 98 44.3 52.8 79.2#

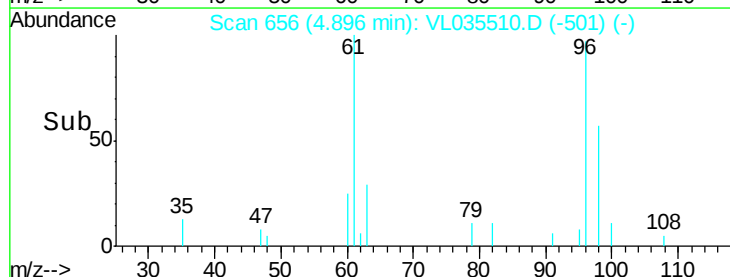
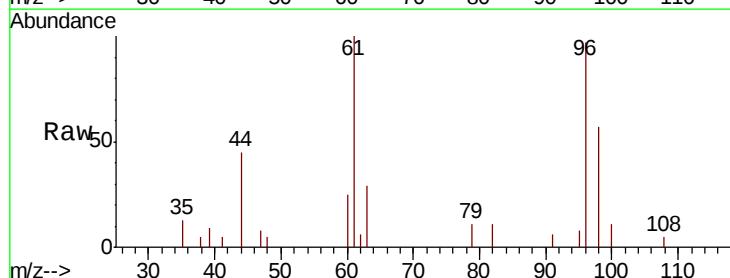
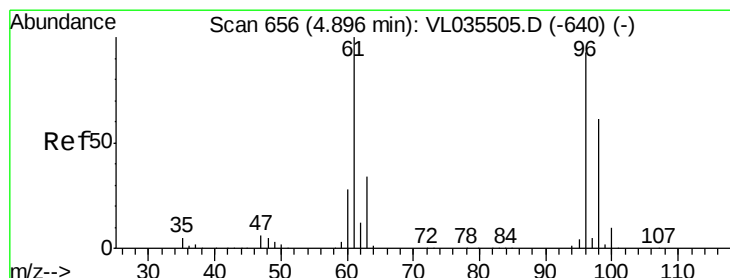
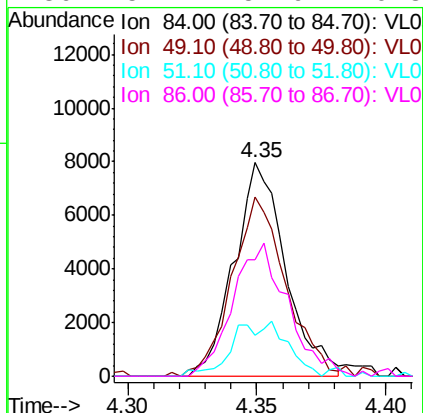




#20
Methylene Chloride
Concen: 0.093 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.00 min
Lab File: VL035510.D
Acq: 27 Aug 2020 5:20

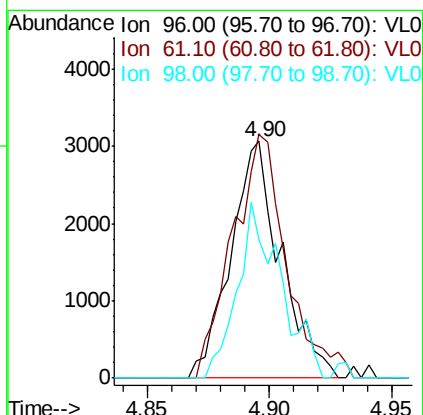
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

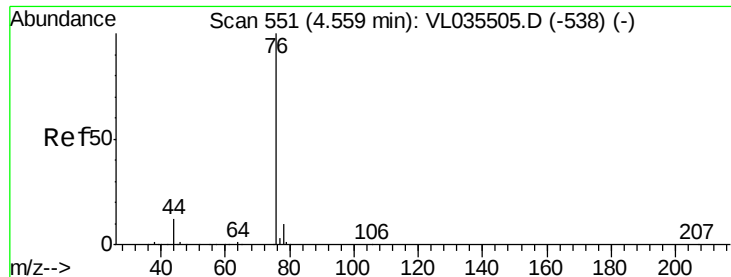
Tot Ion:	84	Resp:	11080
Ion	Ratio	Lower	Upper
84	100		
49	81.4	65.4	98.0
51	16.2	21.5	32.3
86	54.7	52.9	79.3



#22
trans-1,2-Dichloroethene
Concen: 0.046 ppbv
RT: 4.90 min Scan# 656
Delta R.T. -0.00 min
Lab File: VL035510.D
Acq: 27 Aug 2020 5:20

Tgt Ion:	96	Resp:	4381
Ion	Ratio	Lower	Upper
96	100		
61	102.7	86.0	129.0
98	58.6	52.3	78.5





#27

Carbon Disulfide

Concen: 0.032 ppbv

RT: 4.56 min Scan# 553

Delta R.T. 0.01 min

Lab File: VL035510.D

Acq: 27 Aug 2020 5:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

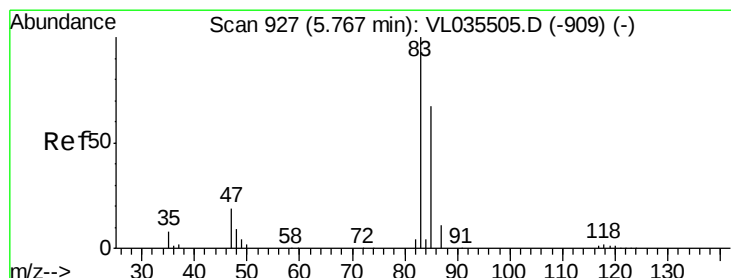
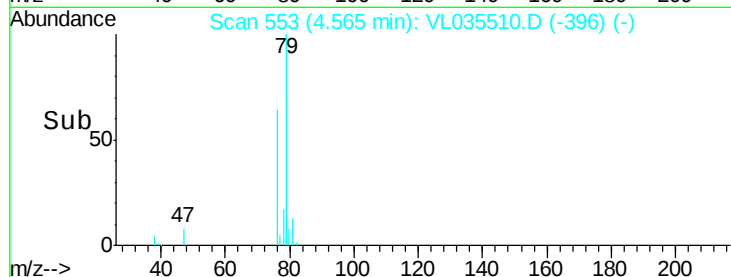
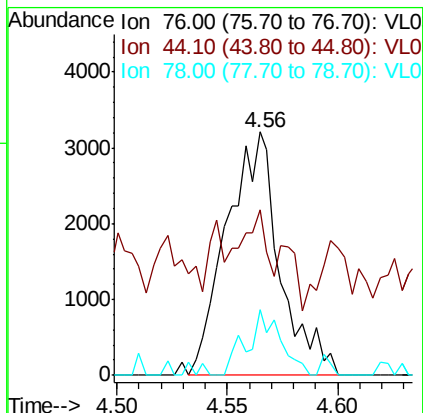
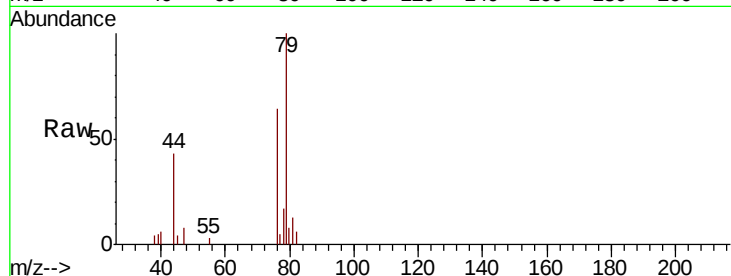
Tot Ion: 76 Resp: 5372

Ion Ratio Lower Upper

76 100

44 48.1 9.3 13.9#

78 19.2 7.8 11.6#



#29

Chloroform

Concen: 0.048 ppbv

RT: 5.76 min Scan# 925

Delta R.T. -0.01 min

Lab File: VL035510.D

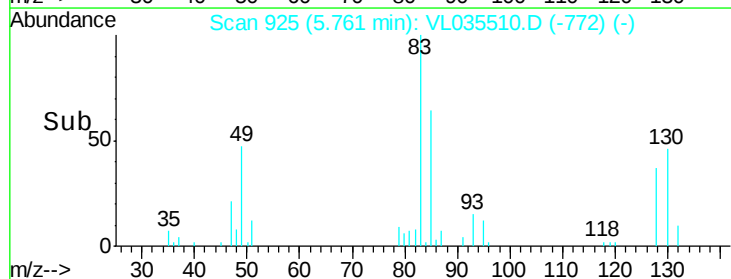
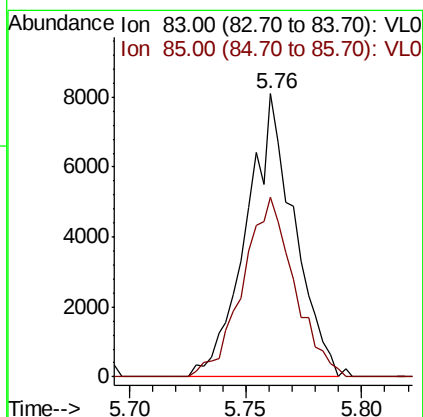
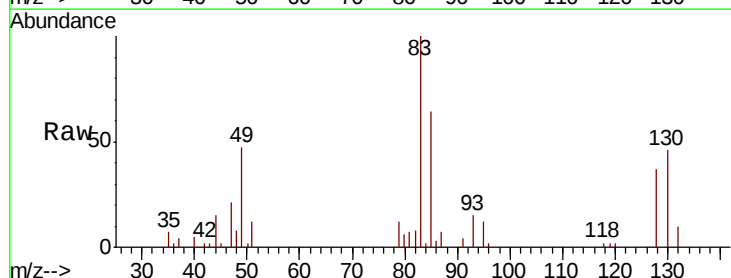
Acq: 27 Aug 2020 5:20

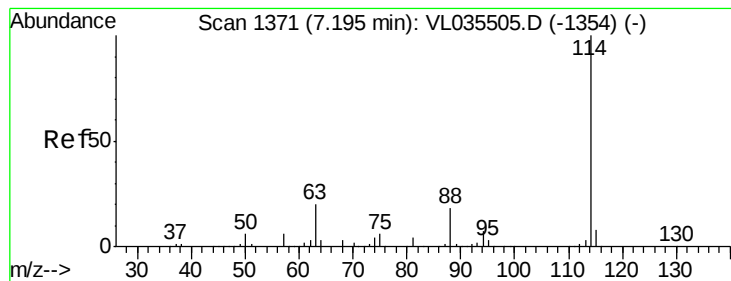
Tgt Ion: 83 Resp: 11620

Ion Ratio Lower Upper

83 100

85 63.6 53.9 80.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.01 min

Lab File: VL035510.D

Acq: 27 Aug 2020 5:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

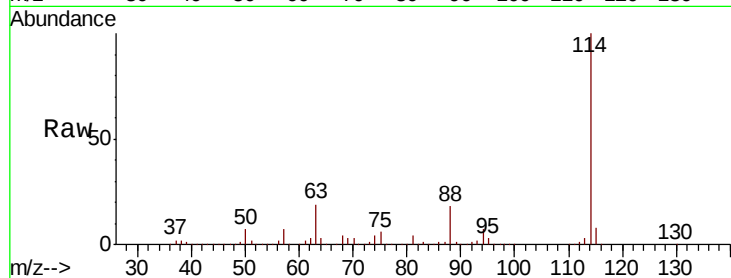
Tot Ion:114 Resp: 4429438

Ion Ratio Lower Upper

114 100

63 18.2 14.7 22.1

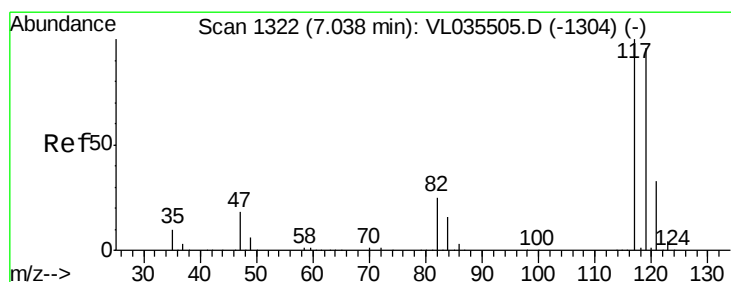
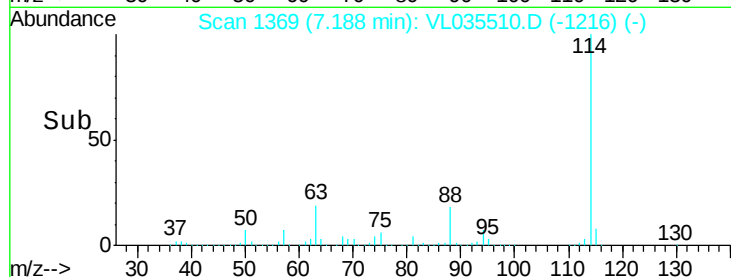
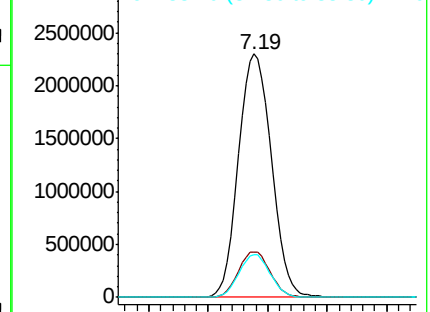
88 16.7 13.4 20.2



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#35

Carbon Tetrachloride

Concen: 0.036 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VL035510.D

Acq: 27 Aug 2020 5:20

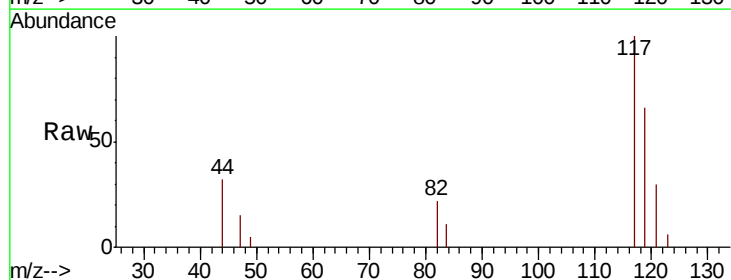
Tgt Ion:117 Resp: 7756

Ion Ratio Lower Upper

117 100

119 65.8 77.2 115.8#

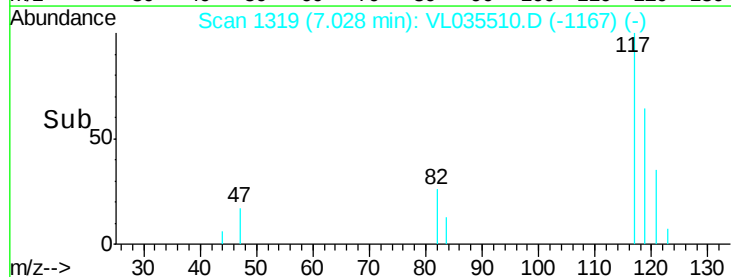
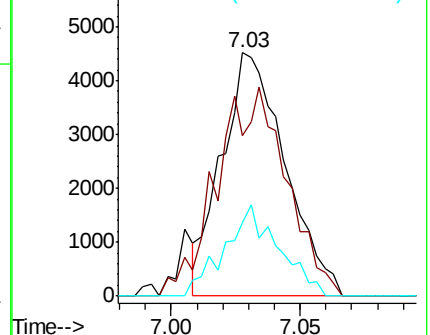
121 29.9 26.1 39.1

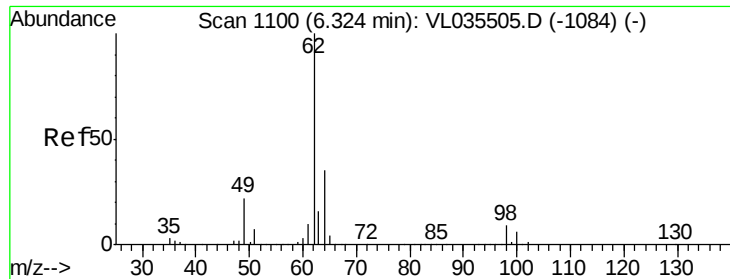


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#37

1,2-Dichloroethane

Concen: 0.046 ppbv

RT: 6.31 min Scan# 1097

Delta R.T. -0.01 min

Lab File: VL035510.D

Acq: 27 Aug 2020 5:20

Instrument :

MSVOA_L

ClientSampleId :

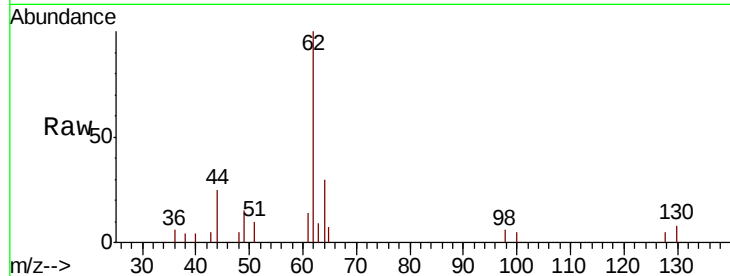
VSTDIC0.03

Tot Ion: 62 Resp: 6310

Ion Ratio Lower Upper

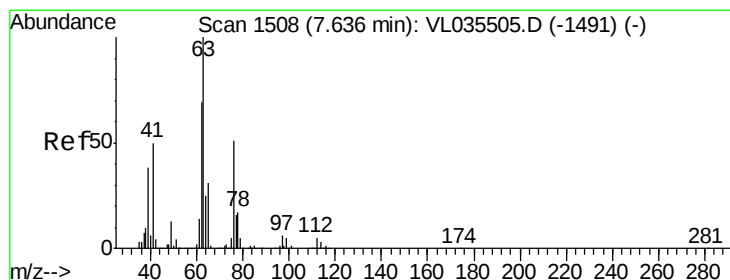
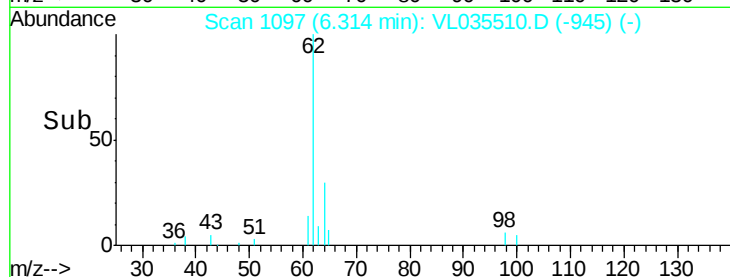
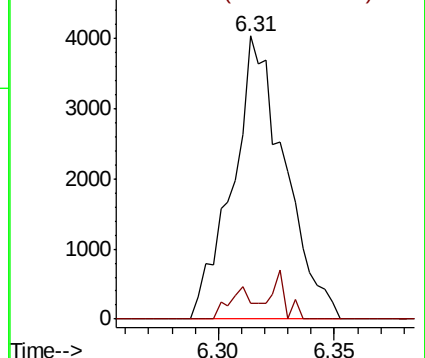
62 100

98 9.9 7.4 11.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#39

1,2-Dichloropropane

Concen: 8.205 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.45 min

Lab File: VL035510.D

Acq: 27 Aug 2020 5:20

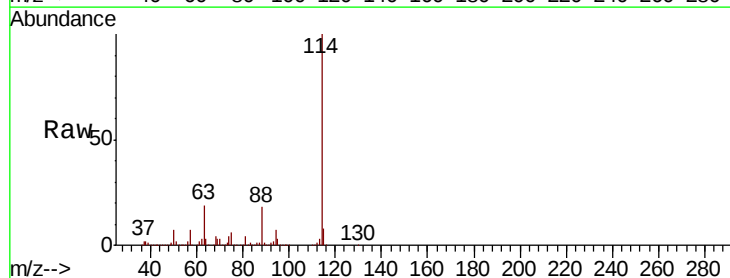
Tgt Ion: 63 Resp: 800502

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

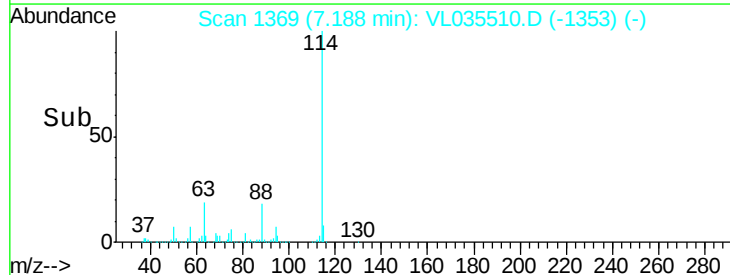
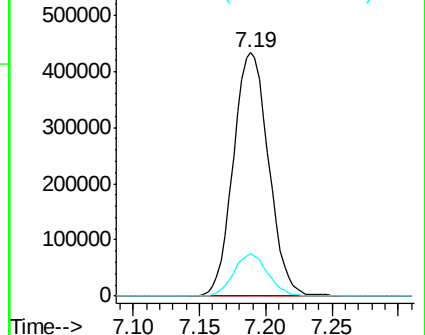
62 17.3 55.4 83.0#

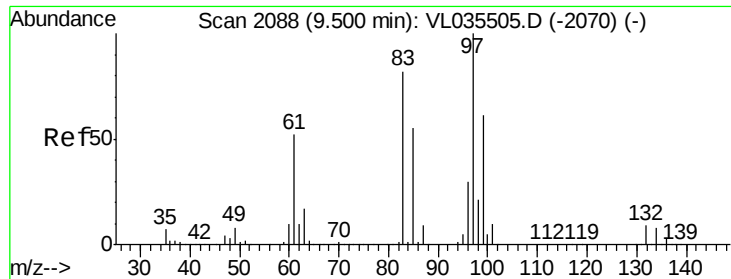


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

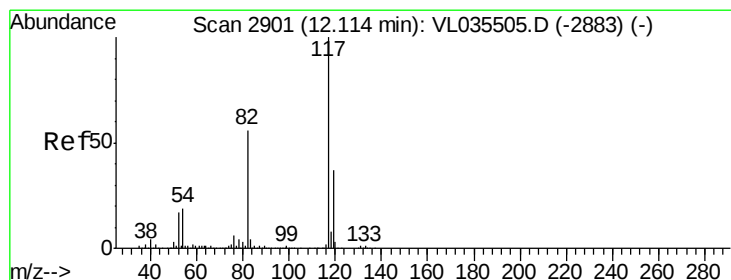
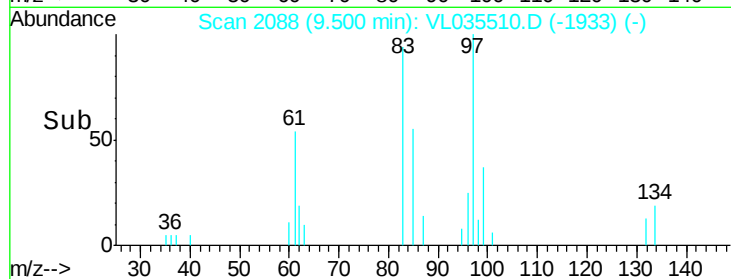
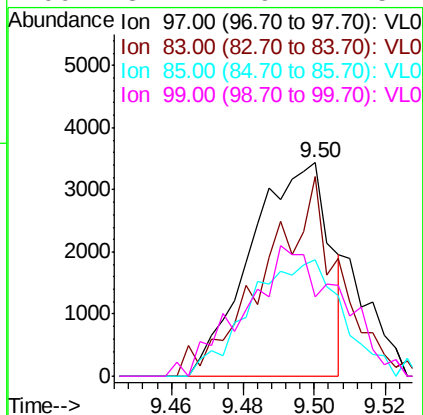
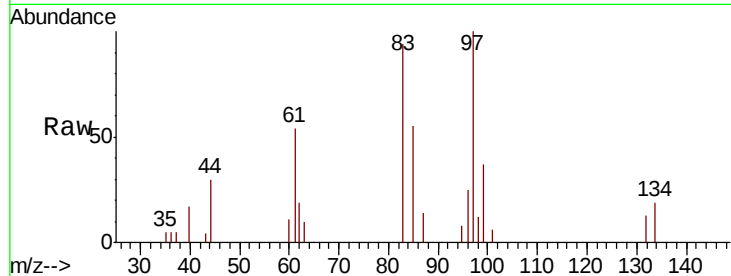




#47
 1,1,2-Trichloroethane
 Concen: 0.036 ppbv
 RT: 9.50 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VL035510.D
 Acq: 27 Aug 2020 5:20

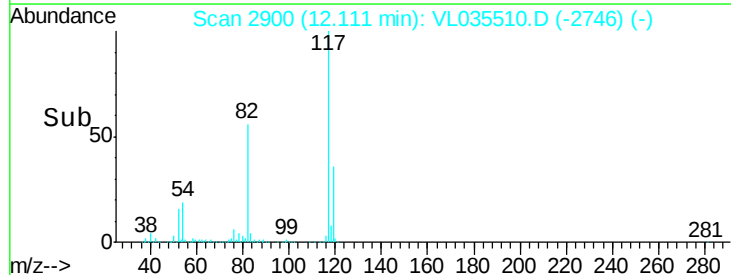
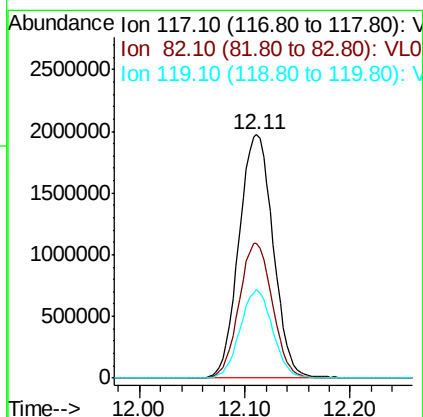
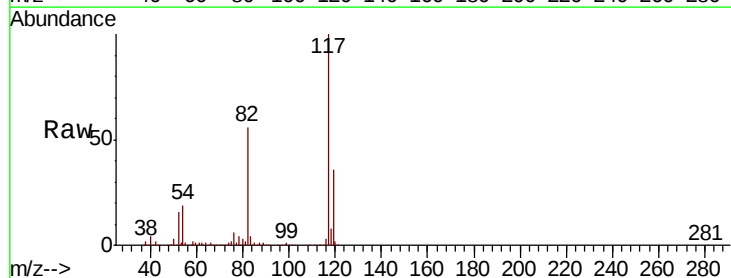
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

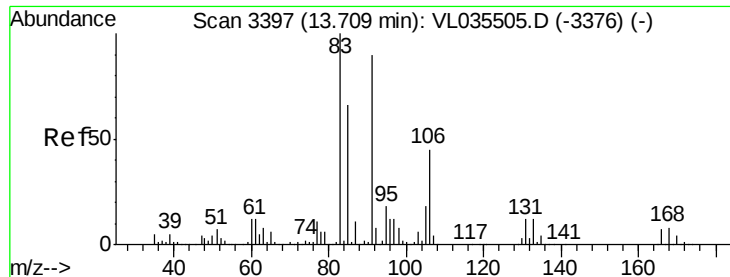
Tot Ion: 97 Resp: 5254
 Ion Ratio Lower Upper
 97 100
 83 79.4 65.4 98.2
 85 54.8 43.7 65.5
 99 37.4 49.1 73.7#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.11 min Scan# 2900
 Delta R.T. -0.00 min
 Lab File: VL035510.D
 Acq: 27 Aug 2020 5:20

Tgt Ion: 117 Resp: 4457802
 Ion Ratio Lower Upper
 117 100
 82 54.3 41.6 62.4
 119 34.9 29.3 43.9

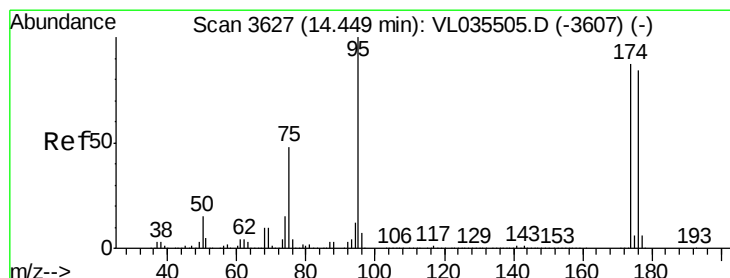
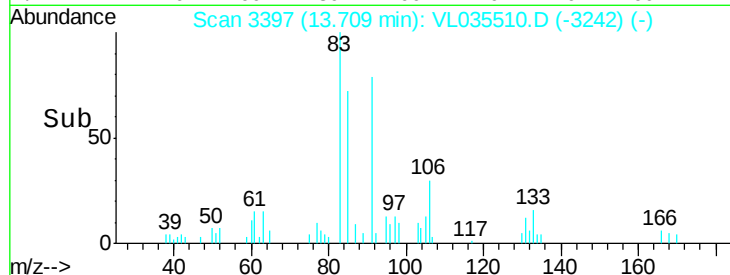
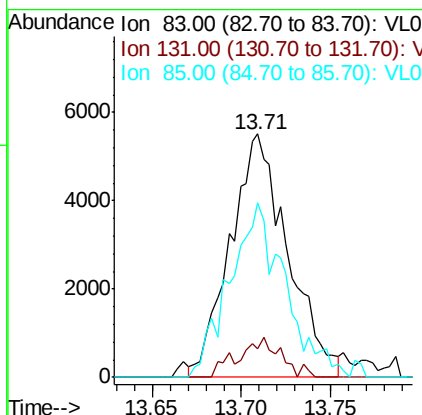
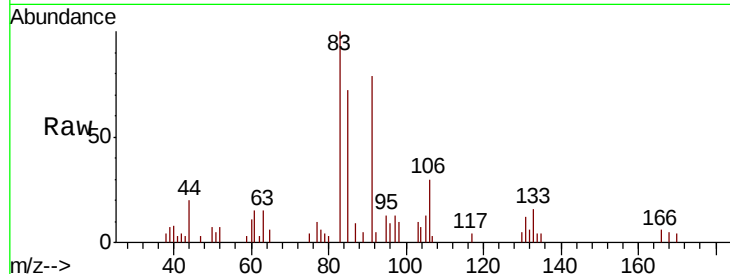




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.043 ppbv
 RT: 13.71 min Scan# 3397
 Delta R.T. -0.00 min
 Lab File: VL035510.D
 Acq: 27 Aug 2020 5:20

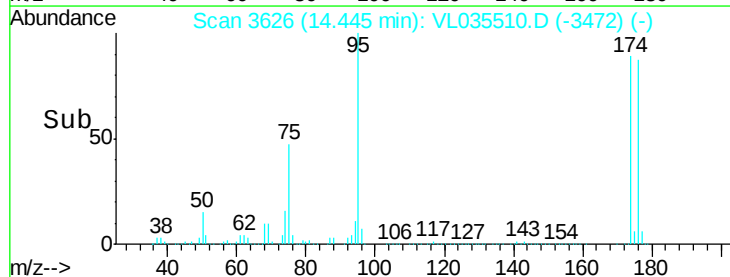
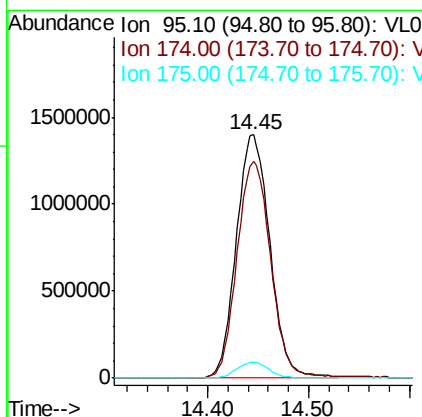
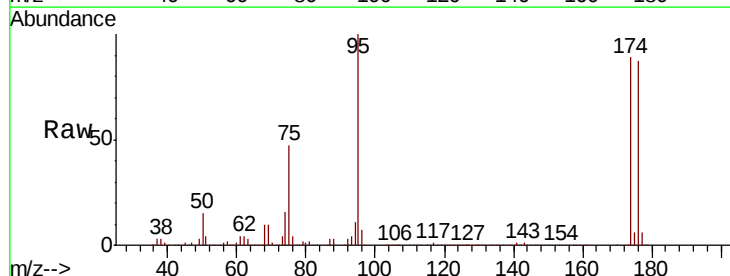
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

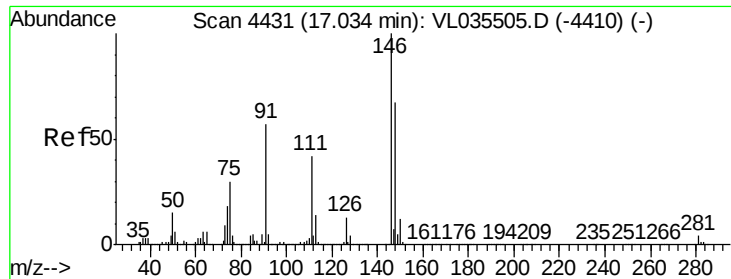
Tot Ion: 83 Resp: 12380
 Ion Ratio Lower Upper
 83 100
 131 12.1 6.0 18.0
 85 70.1 33.4 100.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.229 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.00 min
 Lab File: VL035510.D
 Acq: 27 Aug 2020 5:20

Tgt Ion: 95 Resp: 3232414
 Ion Ratio Lower Upper
 95 100
 174 90.3 69.6 104.4
 175 6.5 5.1 7.7

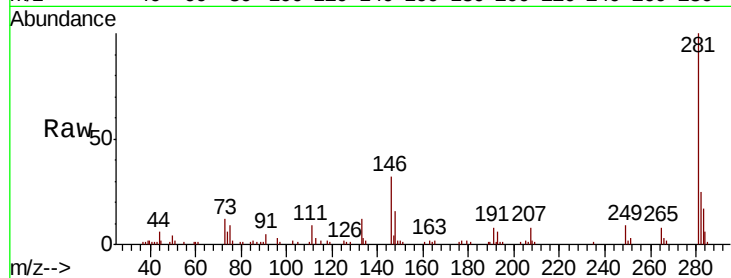




#75
 1,3-Dichlorobenzene
 Concen: 0.039 ppbv
 RT: 17.03 min Scan# 4431
 Delta R.T. -0.00 min
 Lab File: VL035510.D
 Acq: 27 Aug 2020 5:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.3	20.7	62.1
148	75.1	33.0	98.9



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

