

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036519.D
 Acq On : 26 Mar 2021 18:27
 Operator : SY/AP
 Sample : M1760-12DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 27 03:30:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1371605	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	3237392	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	2883450	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2175809	9.47	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

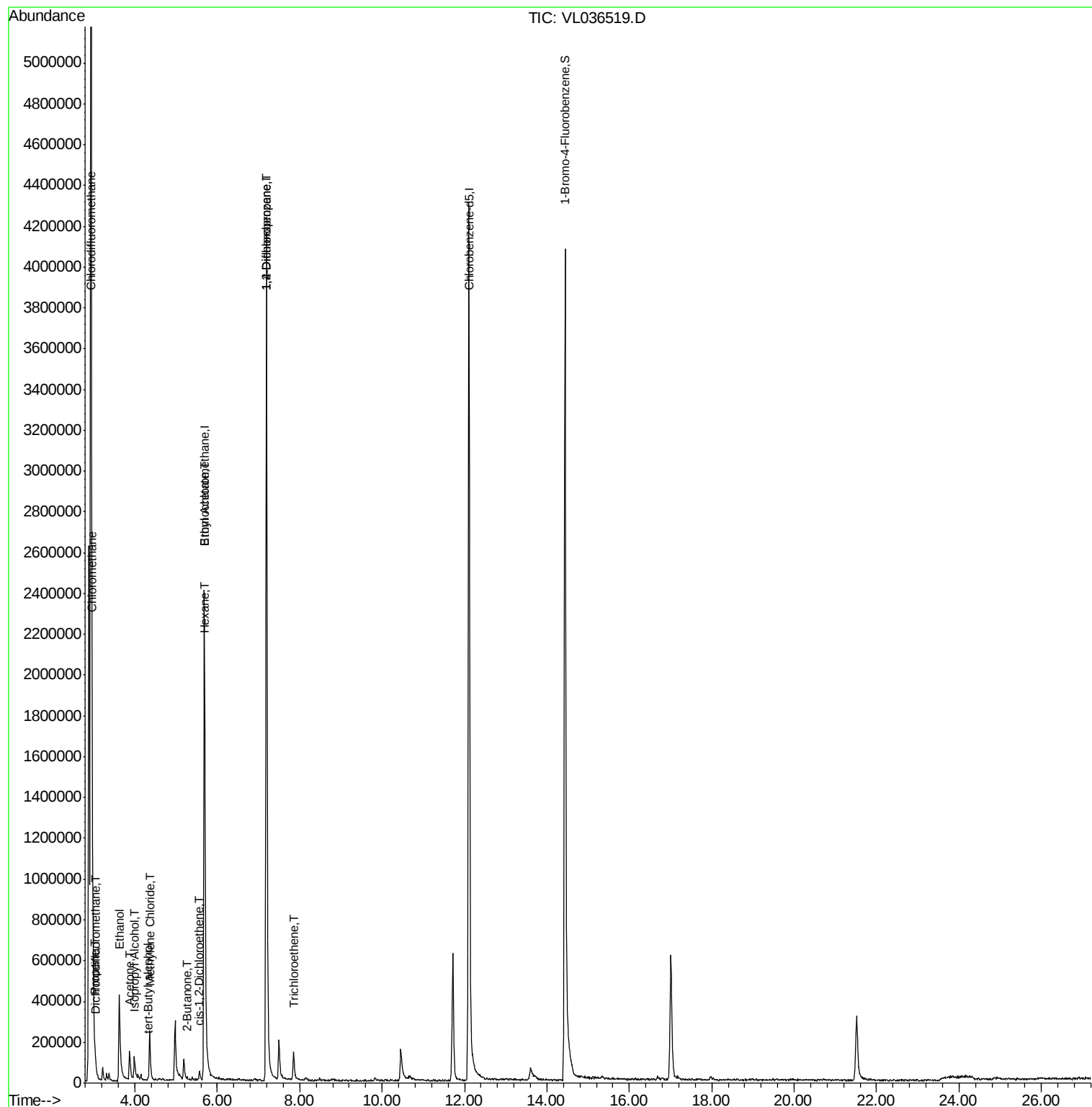
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	16532	0.074 ppbv	92
3) Chlorodifluoromethane	2.93	51	1468222	5.729 ppbv #	59
4) Chloromethane	2.96	50	22435	0.248 ppbv #	59
9) Propene	3.03	41	20447	0.250 ppbv	98
13) Ethanol	3.62	45	530653	54.545 ppbv	95
15) Acetone	3.87	43	174524	1.293 ppbv #	79
17) tert-Butyl alcohol	4.31	59	4597	0.039 ppbv #	72
19) Isopropyl Alcohol	3.99	45	123869	1.668 ppbv #	94
20) Methylene Chloride	4.36	84	98098	1.552 ppbv	100
25) Ethyl Acetate	5.69	43	58595	0.183 ppbv #	70
26) Hexane	5.70	57	59762	0.401 ppbv	92
31) cis-1,2-Dichloroethene	5.56	61	23328	0.162 ppbv	93
34) 2-Butanone	5.26	43	5013	0.032 ppbv #	55
38) Trichloroethene	7.85	130	25918	0.223 ppbv	94
39) 1,2-Dichloropropane	7.19	63	889420	7.344 ppbv #	24

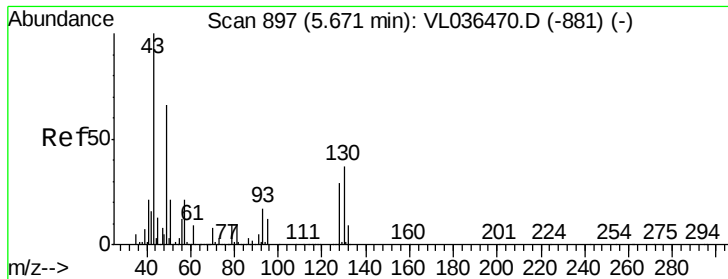
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL036519.D

Acq: 26 Mar 2021 18:27

Instrument :
MSVOA_L
ClientSampled :

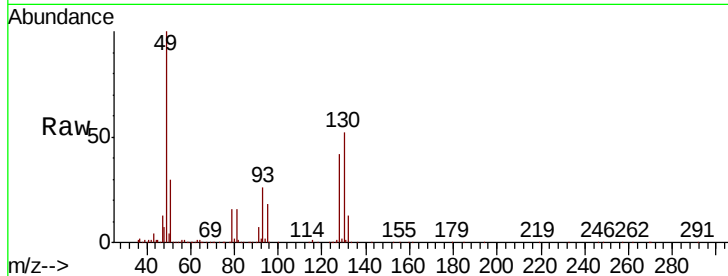
Tot Ion: 49 Resp: 1371605

Ion Ratio Lower Upper

49 100

128 46.5 23.5 70.6

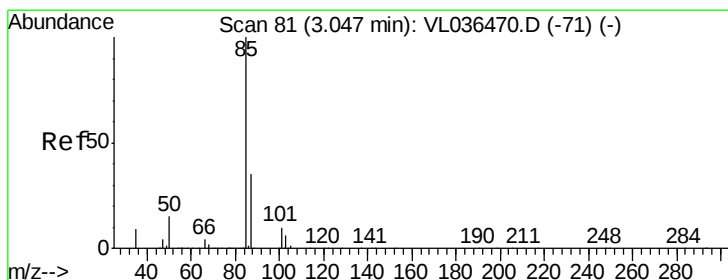
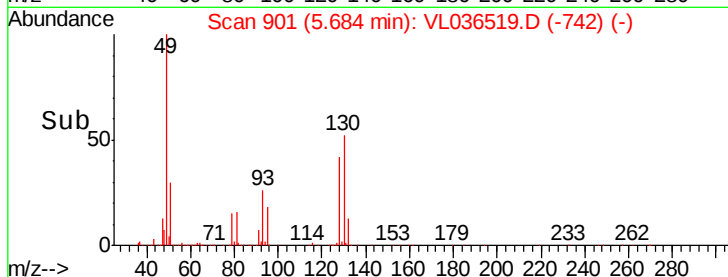
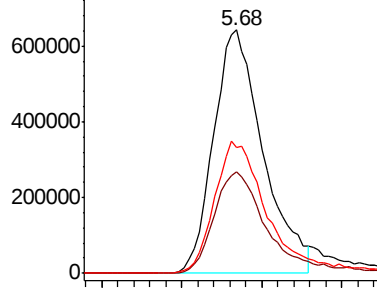
130 60.5 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.074 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036519.D

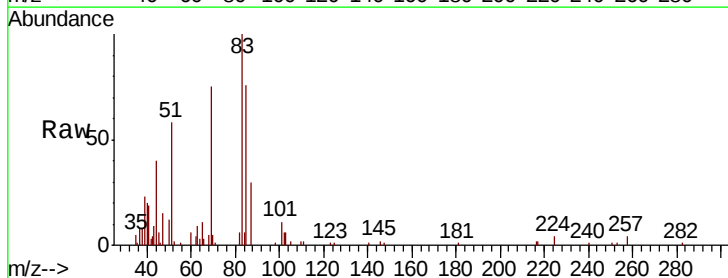
Acq: 26 Mar 2021 18:27

Tgt Ion: 85 Resp: 16532

Ion Ratio Lower Upper

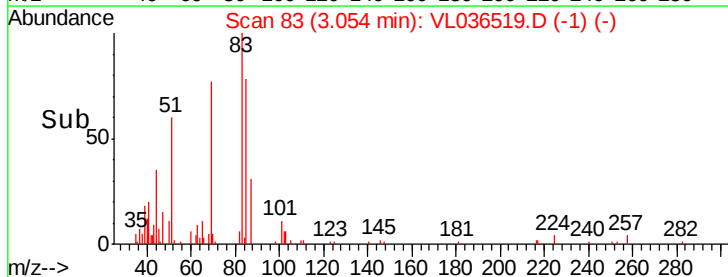
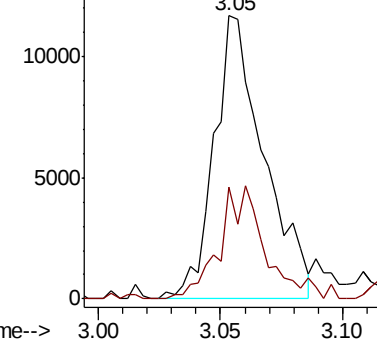
85 100

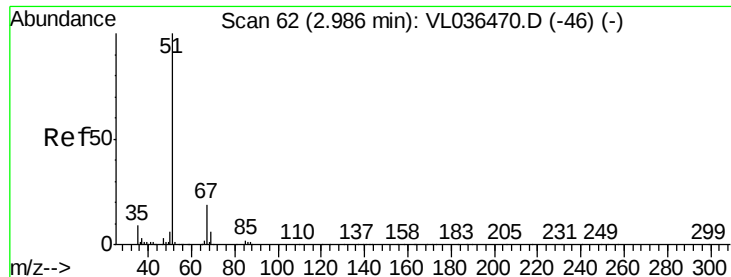
87 39.5 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 5.729 ppbv

RT: 2.93 min Scan# 45

Delta R.T. -0.05 min

Lab File: VL036519.D

Acq: 26 Mar 2021 18:27

Instrument :

MSVOA_L

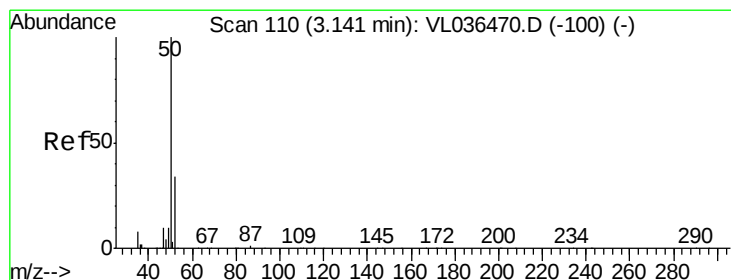
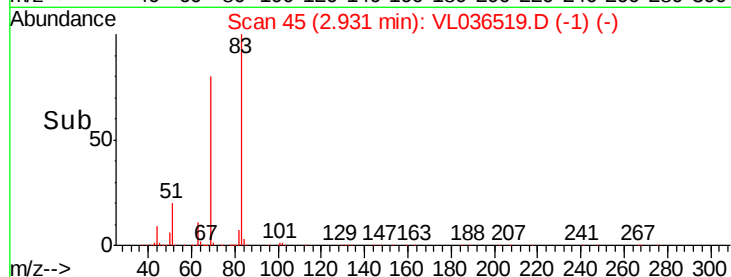
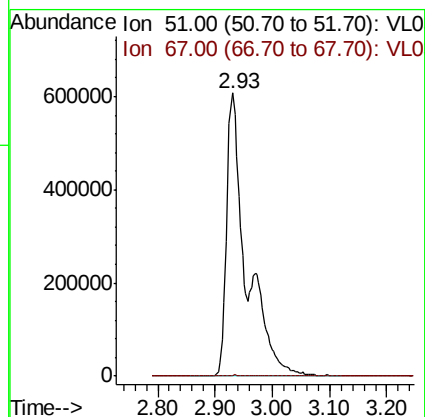
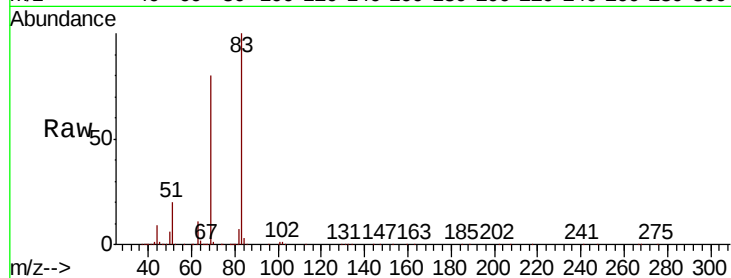
ClientSampleId :

Tot Ion: 51 Resp: 1468222

Ion Ratio Lower Upper

51 100

67 0.2 14.7 22.1#



#4

Chloromethane

Concen: 0.248 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.18 min

Lab File: VL036519.D

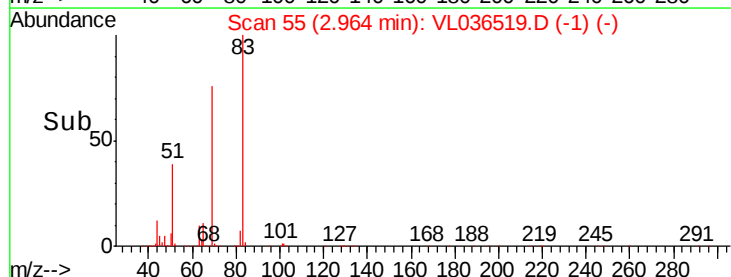
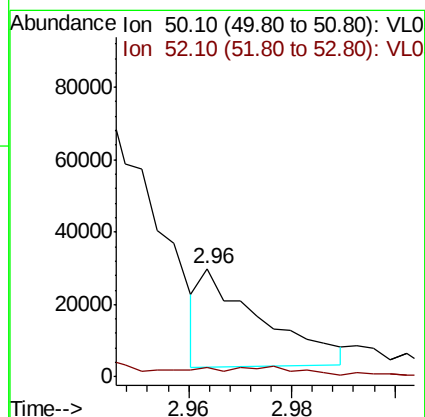
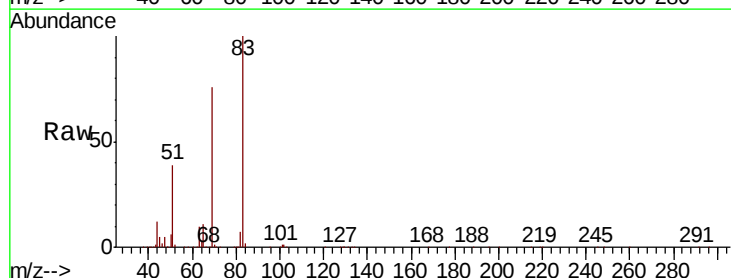
Acq: 26 Mar 2021 18:27

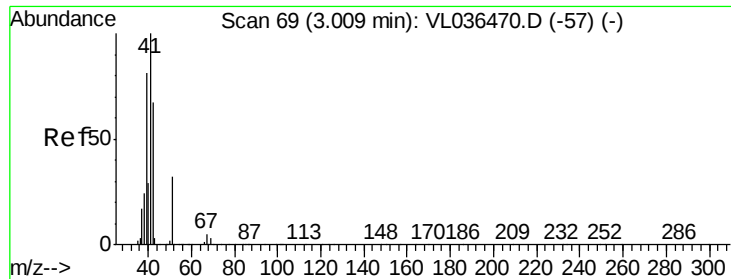
Tgt Ion: 50 Resp: 22435

Ion Ratio Lower Upper

50 100

52 10.2 27.0 40.6#





#9

Propene

Concen: 0.250 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL036519.D

Acq: 26 Mar 2021 18:27

Instrument :

MSVOA_L

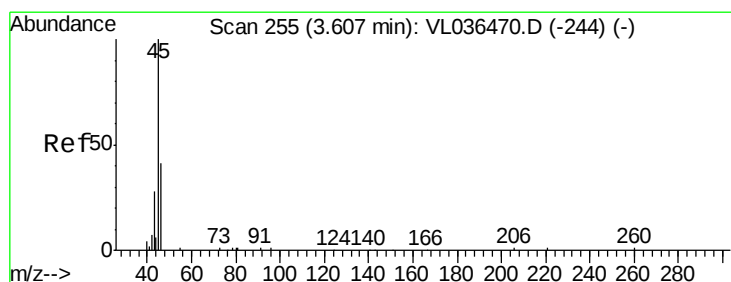
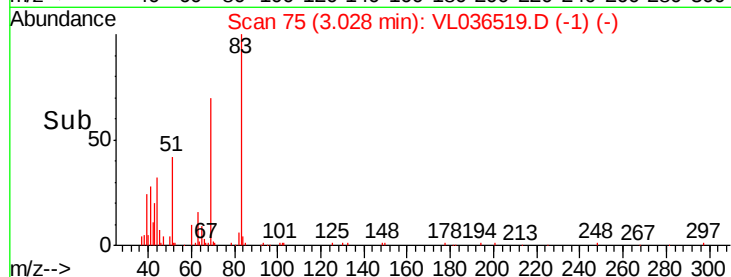
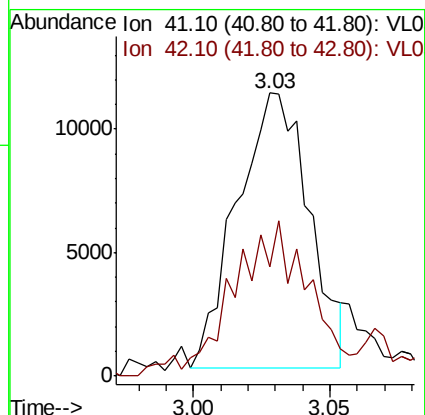
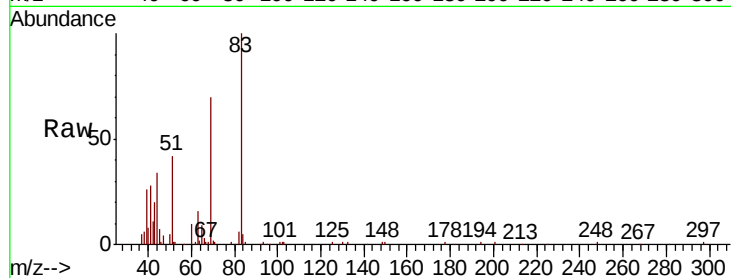
ClientSampleId :

Tot Ion: 41 Resp: 20447

Ion Ratio Lower Upper

41 100

42 72.9 57.0 85.4



#13

Ethanol

Concen: 54.545 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL036519.D

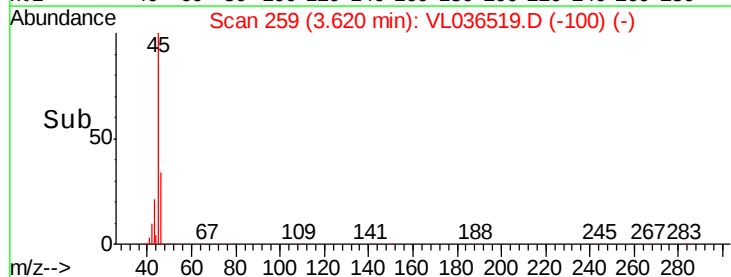
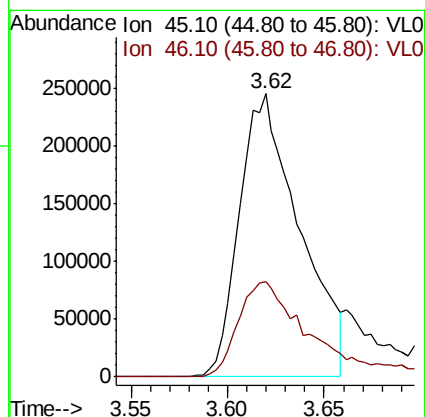
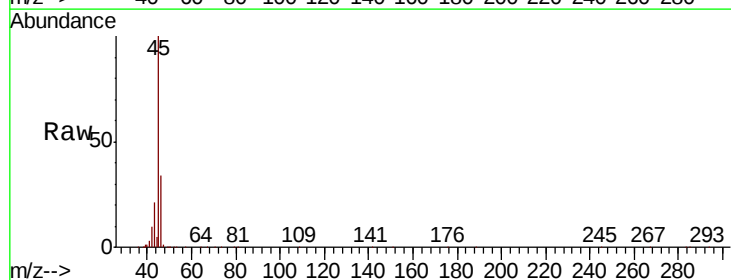
Acq: 26 Mar 2021 18:27

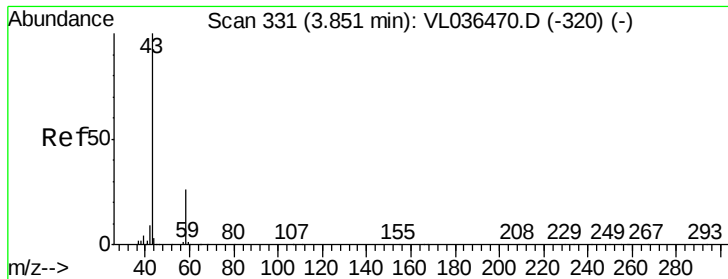
Tgt Ion: 45 Resp: 530653

Ion Ratio Lower Upper

45 100

46 44.3 16.6 66.2





#15

Acetone

Concen: 1.293 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL036519.D

Acq: 26 Mar 2021 18:27

Instrument :

MSVOA_L

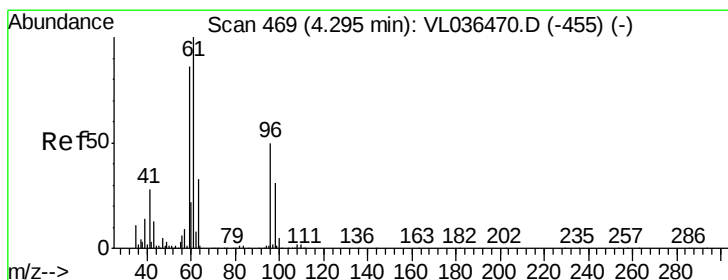
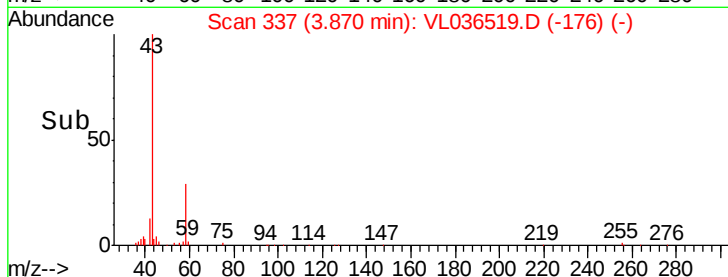
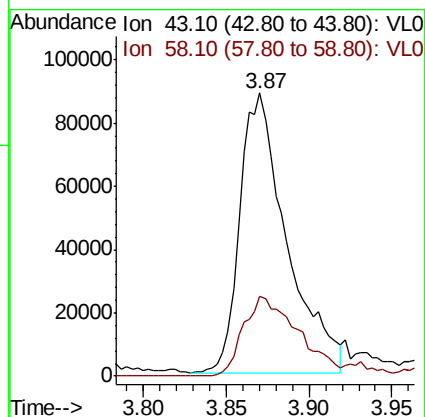
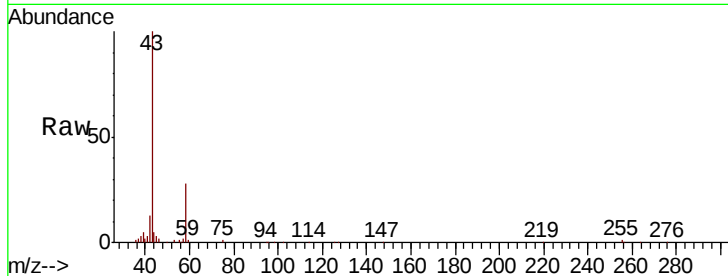
ClientSampleId :

Tot Ion: 43 Resp: 174524

Ion Ratio Lower Upper

43 100

58 37.5 21.2 31.8#



#17

tert-Butyl alcohol

Concen: 0.039 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.02 min

Lab File: VL036519.D

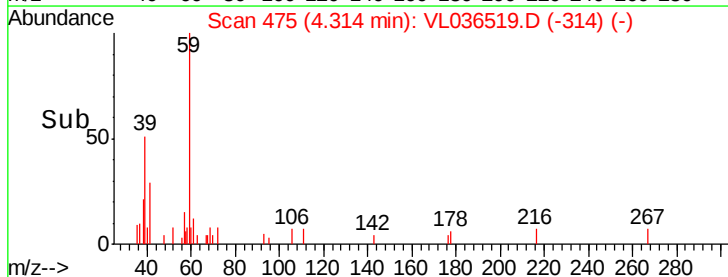
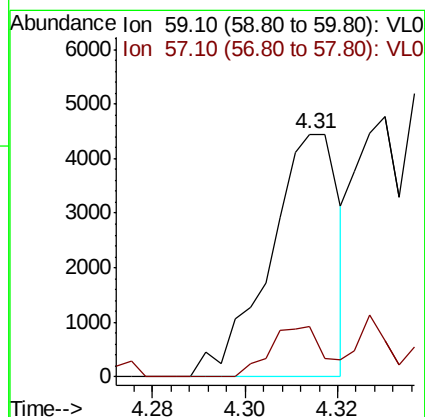
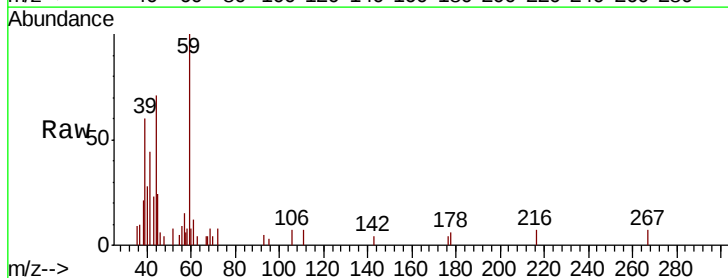
Acq: 26 Mar 2021 18:27

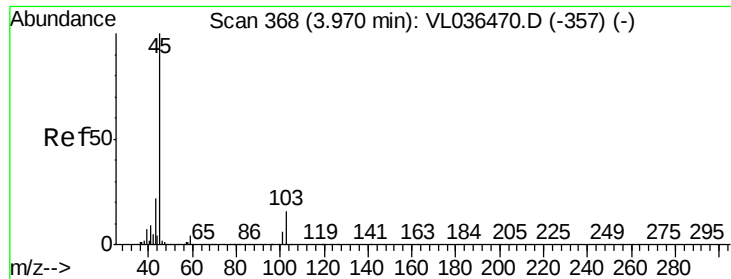
Tgt Ion: 59 Resp: 4597

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 1.668 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.02 min

Lab File: VL036519.D

Acq: 26 Mar 2021 18:27

Instrument :

MSVOA_L

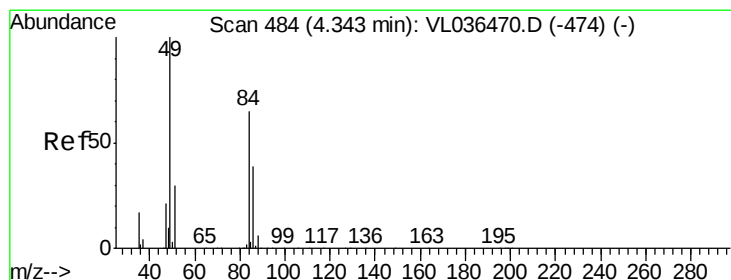
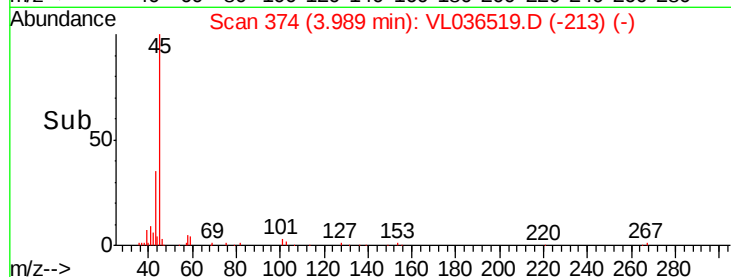
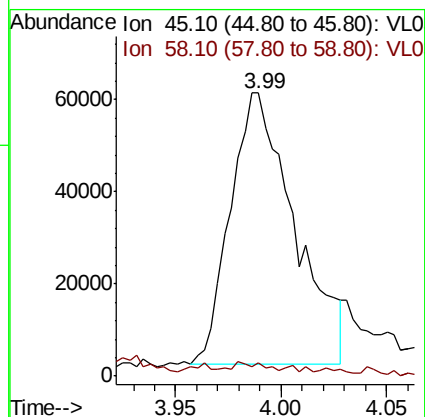
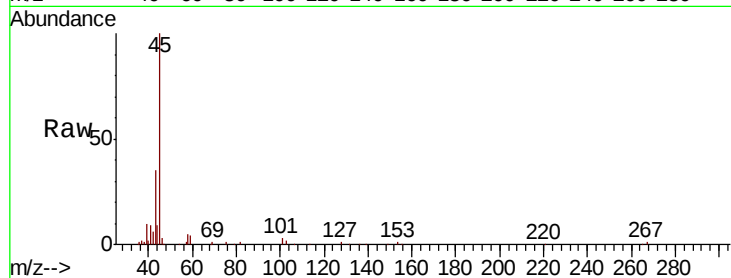
ClientSampleId :

Tot Ion: 45 Resp: 123869

Ion Ratio Lower Upper

45 100

58 5.5 2.9 4.3#



#20

Methylene Chloride

Concen: 1.552 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL036519.D

Acq: 26 Mar 2021 18:27

Tgt Ion: 84 Resp: 98098

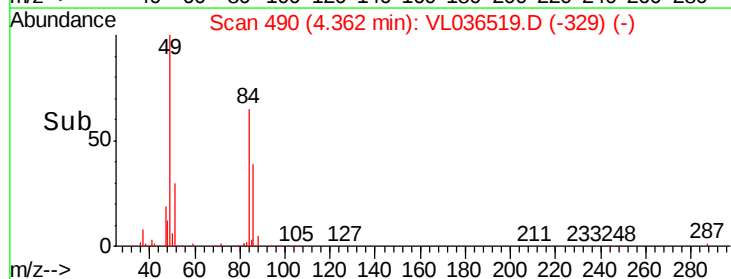
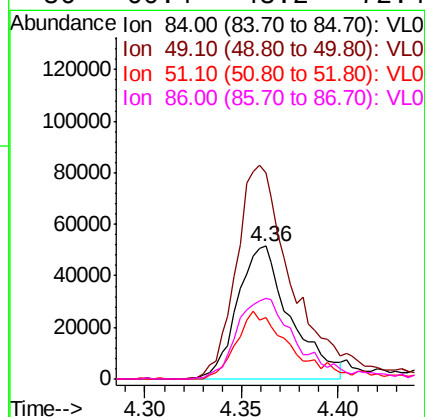
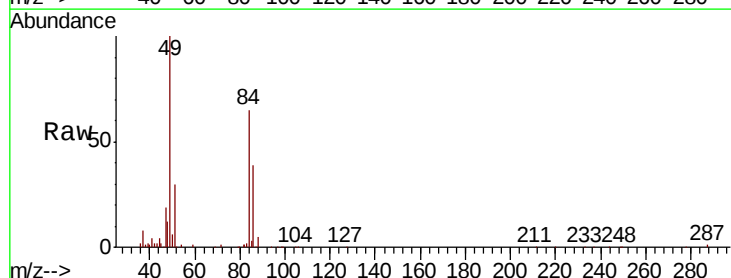
Ion Ratio Lower Upper

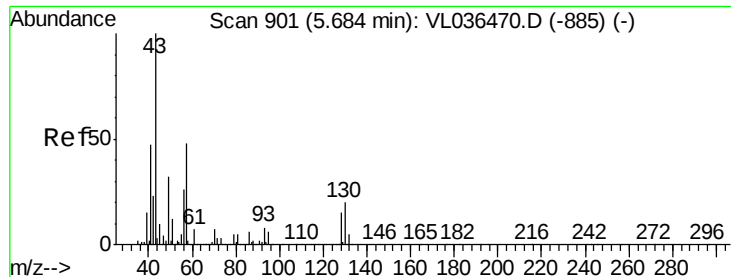
84 100

49 153.9 122.9 184.3

51 46.2 36.9 55.3

86 60.4 48.2 72.4

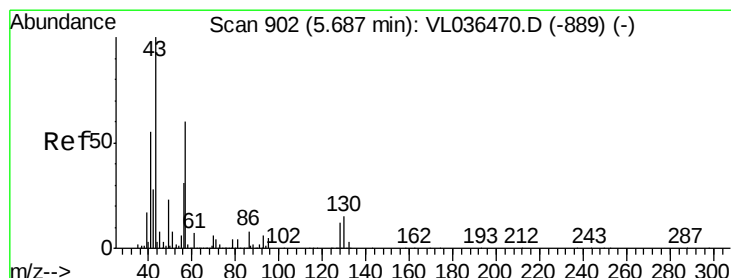
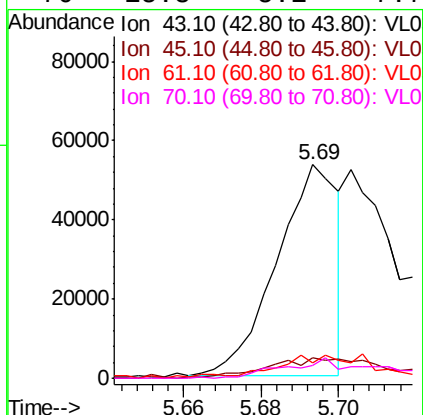
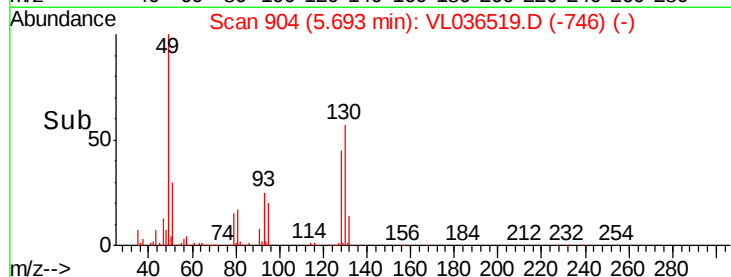
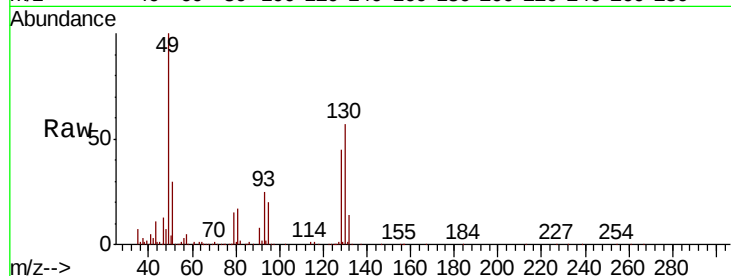




#25
Ethyl Acetate
Concen: 0.183 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036519.D
Acq: 26 Mar 2021 18:27

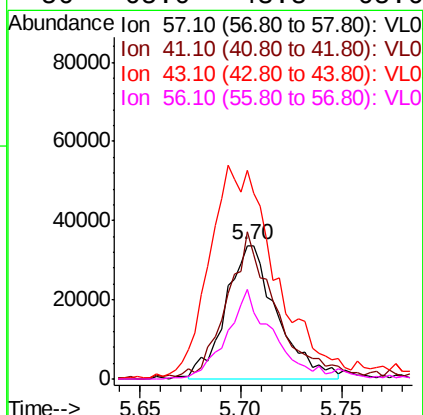
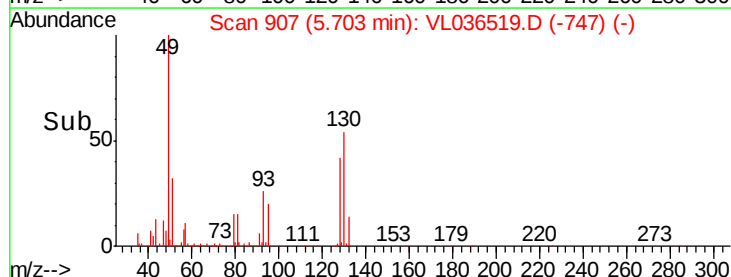
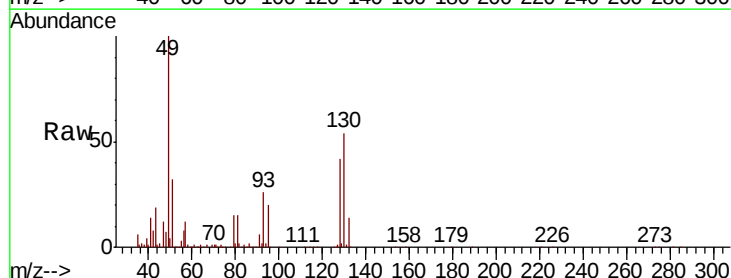
Instrument :
MSVOA_L
ClientSampleId :

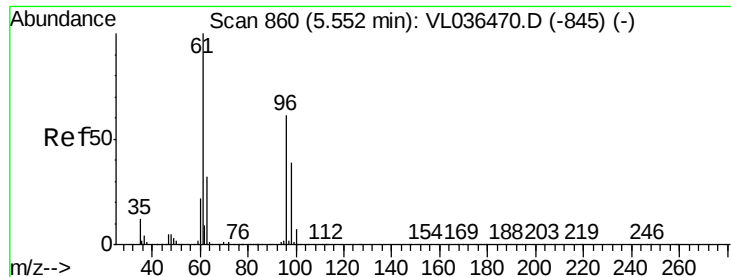
Tot Ion:	43	Resp:	58595
Ion	Ratio	Lower	Upper
43	100		
45	23.0	7.9	11.9#
61	0.0	7.4	11.2#
70	15.8	5.1	7.7#



#26
Hexane
Concen: 0.401 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.02 min
Lab File: VL036519.D
Acq: 26 Mar 2021 18:27

Tgt Ion:	57	Resp:	59762
Ion	Ratio	Lower	Upper
57	100		
41	113.1	77.2	115.8
43	221.7	173.8	260.6
56	65.0	43.8	65.6



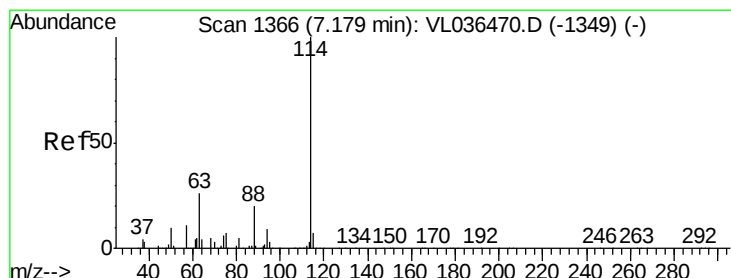
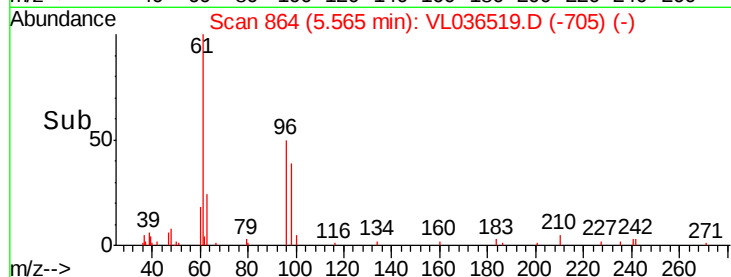
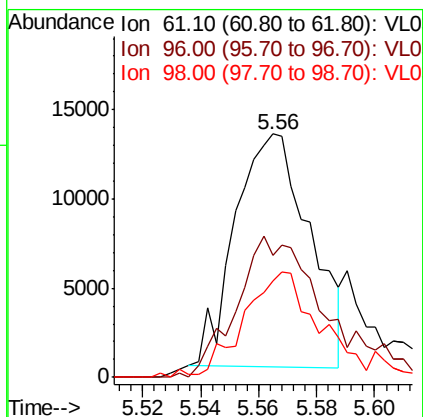
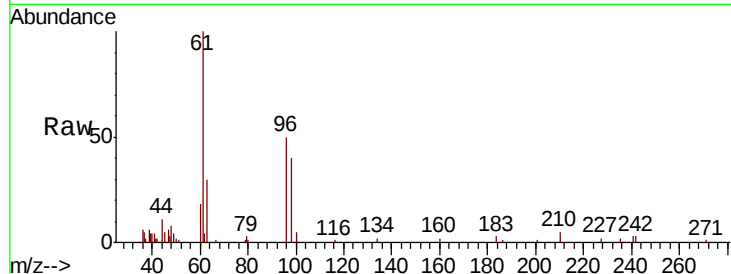


#31

cis-1,2-Dichloroethene
Concen: 0.162 ppbv
RT: 5.56 min Scan# 864
Delta R.T. 0.01 min
Lab File: VL036519.D
Acq: 26 Mar 2021 18:27

Instrument :
MSVOA_L
ClientSampleId :

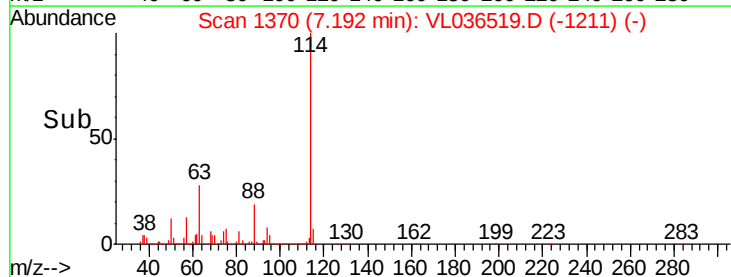
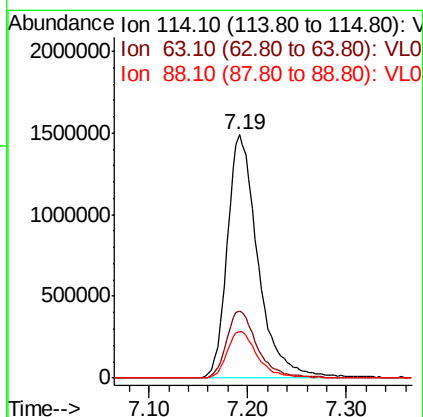
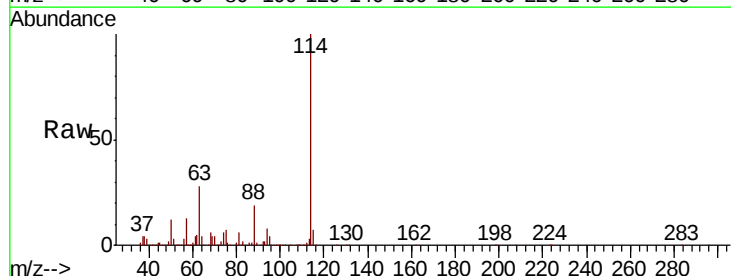
Tot Ion	61	Resp	23328
Ion Ratio	Lower	Upper	
61	100		
96	53.0	48.7	73.1
98	40.4	31.4	47.0

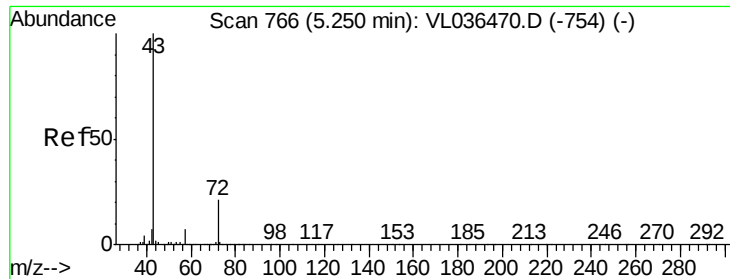


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.01 min
Lab File: VL036519.D
Acq: 26 Mar 2021 18:27

Tgt Ion	114	Resp	3237392
Ion Ratio	Lower	Upper	
114	100		
63	28.2	22.4	33.6
88	19.2	15.4	23.0

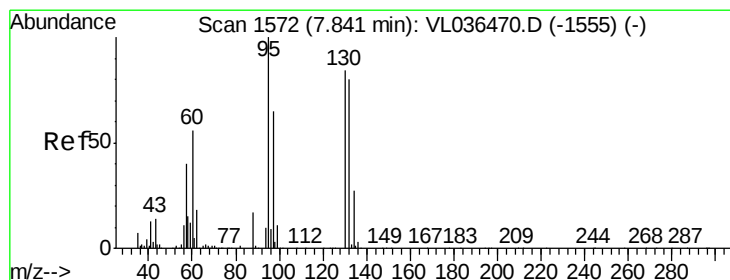
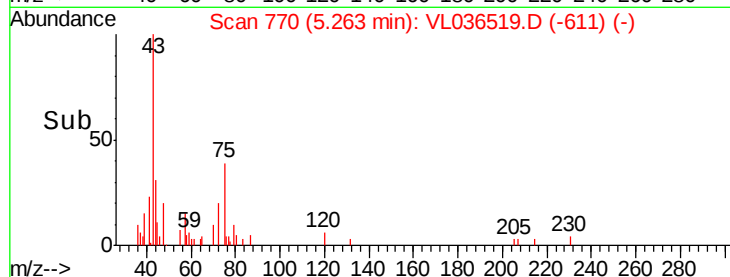
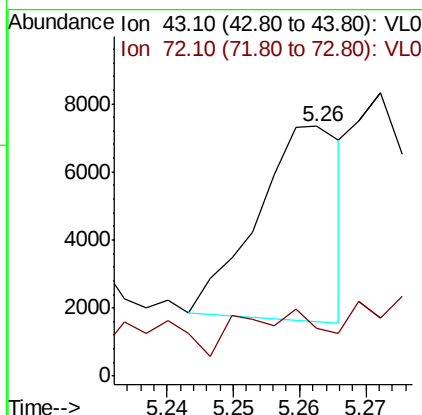
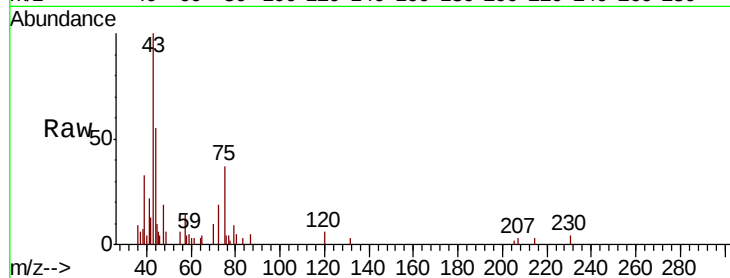




#34
2-Butanone
Concen: 0.032 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.01 min
Lab File: VL036519.D
Acq: 26 Mar 2021 18:27

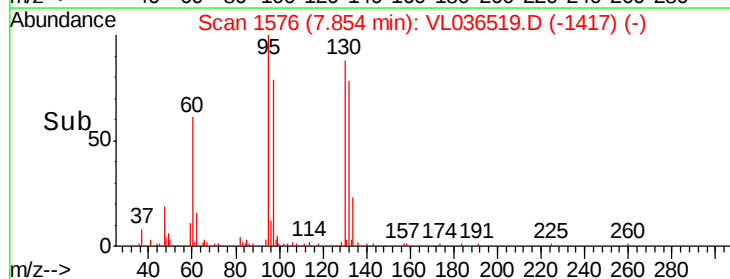
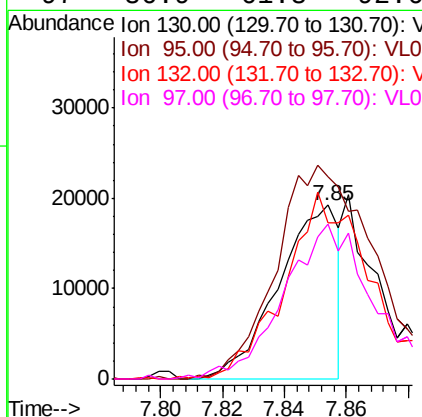
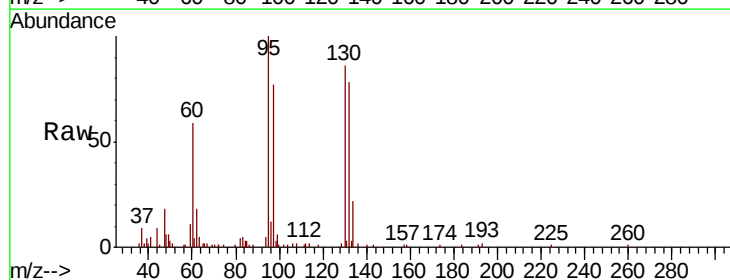
Instrument :
MSVOA_L
ClientSampleId :

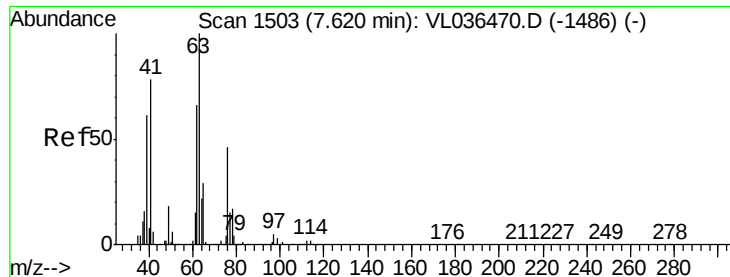
Tot Ion: 43 Resp: 5013
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.6#



#38
Trichloroethene
Concen: 0.223 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VL036519.D
Acq: 26 Mar 2021 18:27

Tgt Ion:130 Resp: 25918
Ion Ratio Lower Upper
130 100
95 116.2 95.7 143.5
132 89.4 76.2 114.4
97 86.9 61.8 92.6

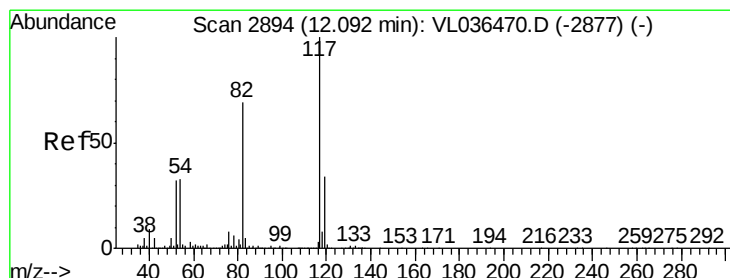
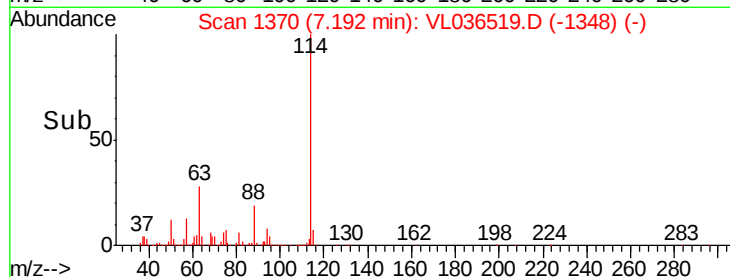
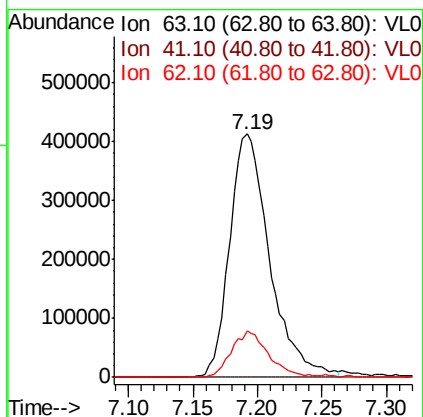
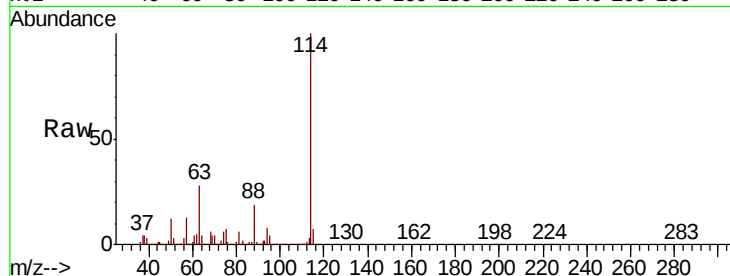




#39
 1,2-Dichloropropane
 Concen: 7.344 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.43 min
 Lab File: VL036519.D
 Acq: 26 Mar 2021 18:27

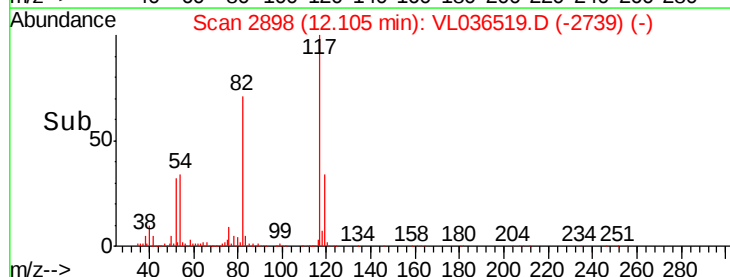
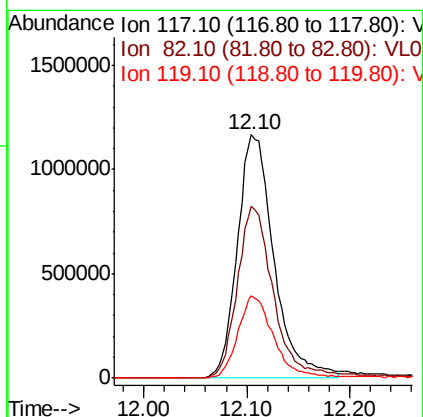
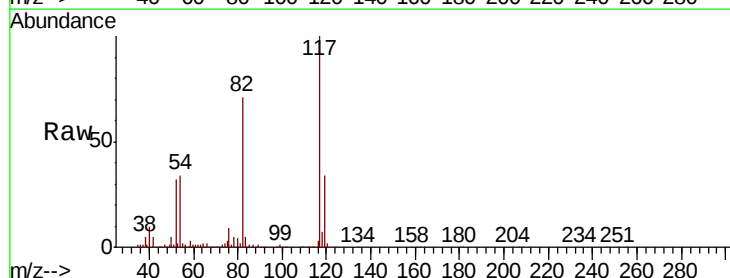
Instrument :
 MSVOA_L
 ClientSampleId :

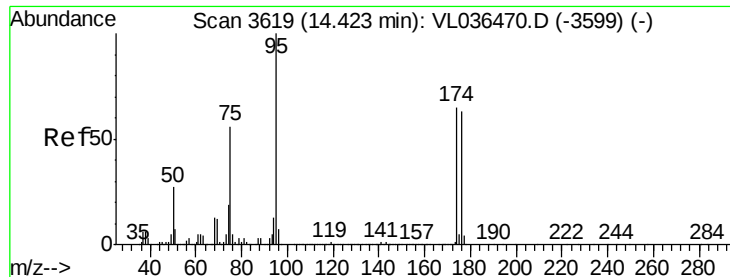
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.4	93.6#
62	18.9	52.8	79.2#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min Scan# 2898
 Delta R.T. 0.01 min
 Lab File: VL036519.D
 Acq: 26 Mar 2021 18:27

Tgt Ion	Ratio	Lower	Upper
117	100		
82	70.9	57.4	86.0
119	34.2	47.4	71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.468 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. 0.02 min

Lab File: VL036519.D

Acq: 26 Mar 2021 18:27

Instrument :

MSVOA_L

ClientSampleId :

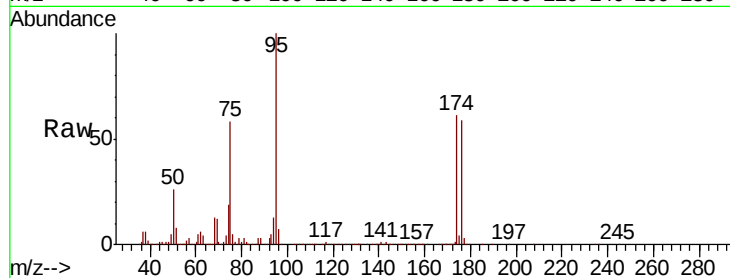
Tot Ion: 95 Resp: 2175809

Ion Ratio Lower Upper

95 100

174 67.3 51.0 76.6

175 4.9 3.9 5.9



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

