

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036363.D
 Acq On : 24 Feb 2021 23:19
 Operator : SY/AP
 Sample : M1463-07DL DUP 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-1DL DUP

Quant Time: Feb 25 05:20:51 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1716867	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.19	114	3683795	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.11	117	3318563	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2631060	9.64	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

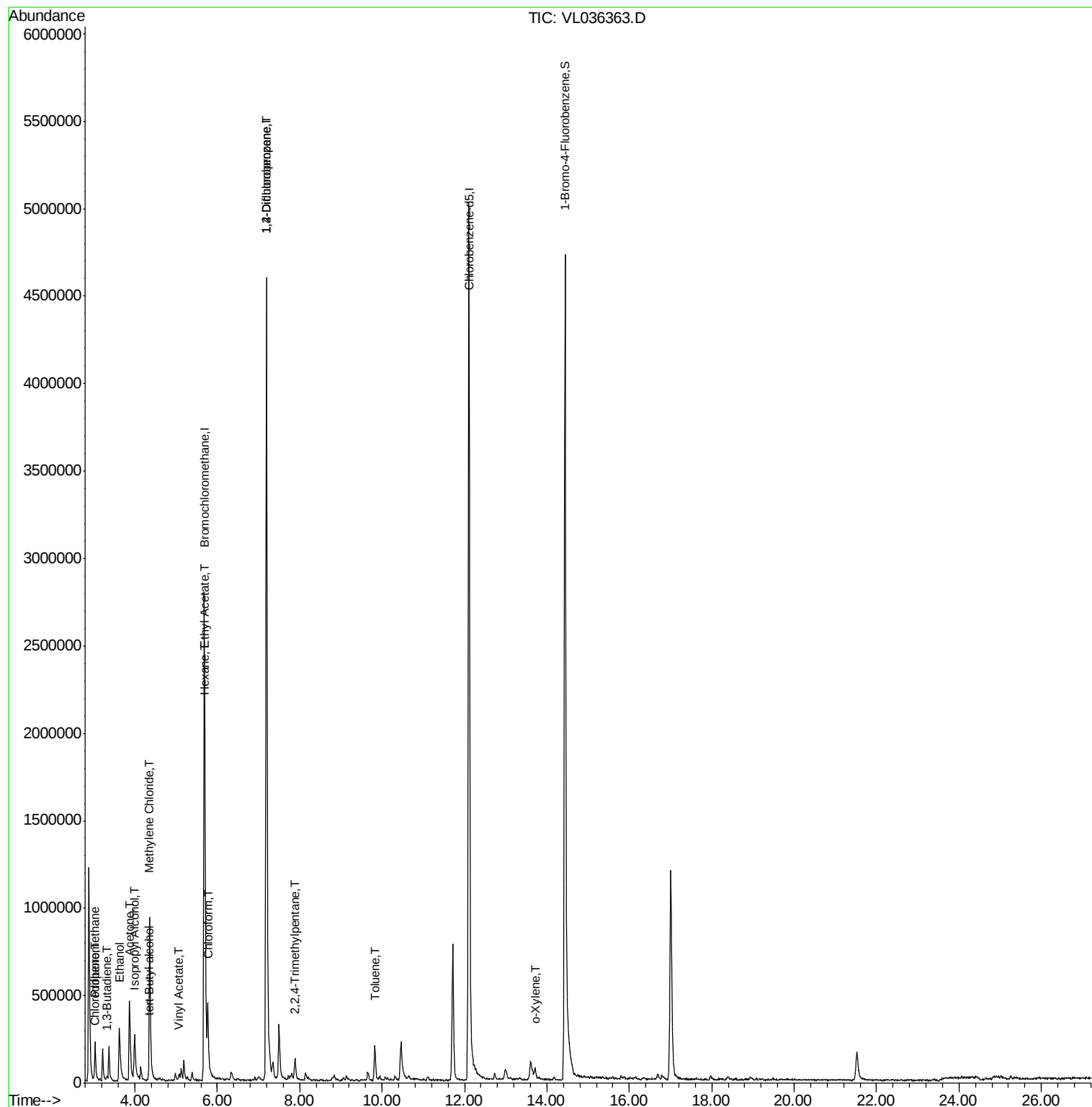
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	11331	0.053	ppbv #	90
9) Propene	3.03	41	65258	0.821	ppbv #	79
13) Ethanol	3.62	45	428771	28.702	ppbv	95
15) Acetone	3.86	43	617864	2.944	ppbv	93
16) 1,3-Butadiene	3.32	39	4323	0.043	ppbv #	63
17) tert-Butyl alcohol	4.33	59	9132	0.056	ppbv #	75
19) Isopropyl Alcohol	3.99	45	367766	3.163	ppbv #	91
20) Methylene Chloride	4.36	84	382908	5.655	ppbv	93
23) Vinyl Acetate	5.07	43	15106	0.061	ppbv #	35
25) Ethyl Acetate	5.70	43	90016	0.222	ppbv #	86
26) Hexane	5.71	57	116712	0.701	ppbv #	40
29) Chloroform	5.77	83	130510	0.487	ppbv	89
39) 1,2-Dichloropropane	7.19	63	1047587	8.241	ppbv #	23
44) 2,2,4-Trimethylpentane	7.89	57	94360	0.166	ppbv #	86
53) Toluene	9.83	91	126347	0.373	ppbv	97
60) o-Xylene	13.72	91	24512	0.064	ppbv	84

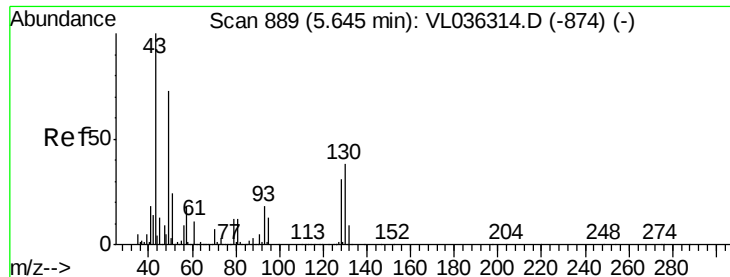
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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NS-1DL DUP

Quant Time: Feb 25 05:20:51 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.04 min

Lab File: VL036363.D

Acq: 24 Feb 2021 23:19

Instrument :

MSVOA_L

ClientSampleId :

NS-1DLDP

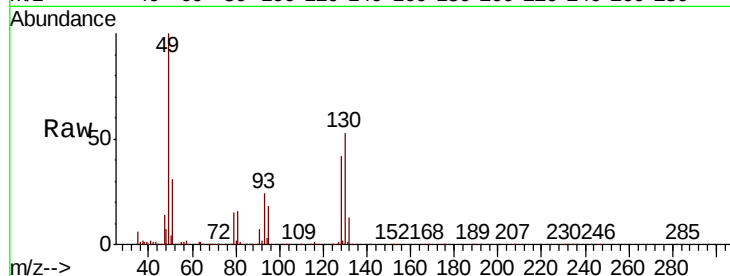
Tot Ion: 49 Resp: 1716867

Ion Ratio Lower Upper

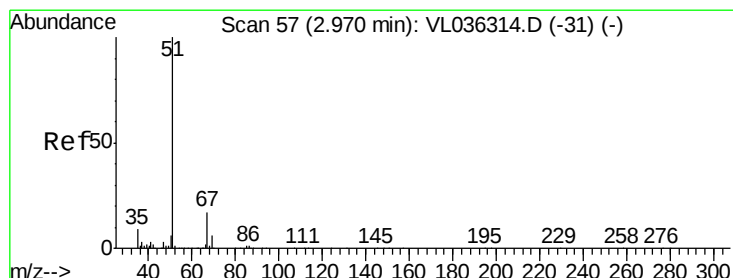
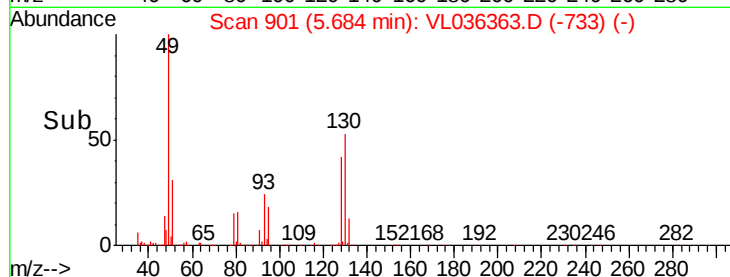
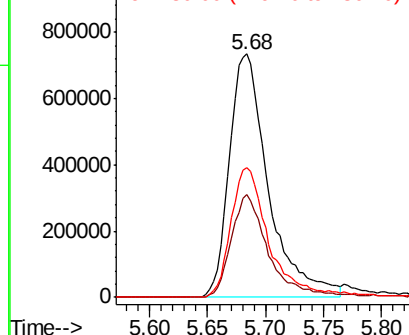
49 100

128 41.2 20.8 62.5

130 52.9 26.7 80.1



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



#3

Chlorodifluoromethane

Concen: 0.053 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.04 min

Lab File: VL036363.D

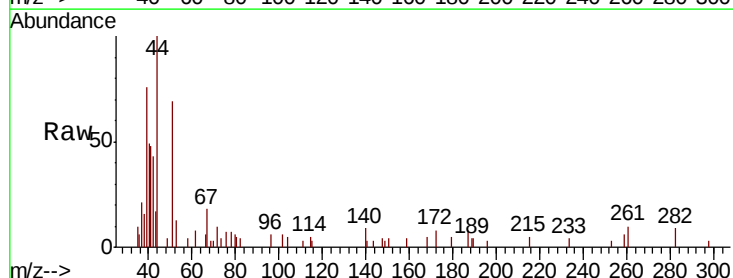
Acq: 24 Feb 2021 23:19

Tgt Ion: 51 Resp: 11331

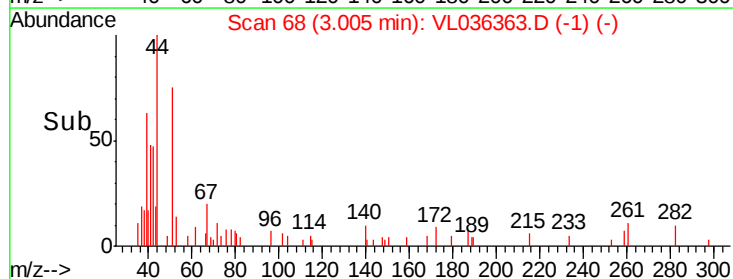
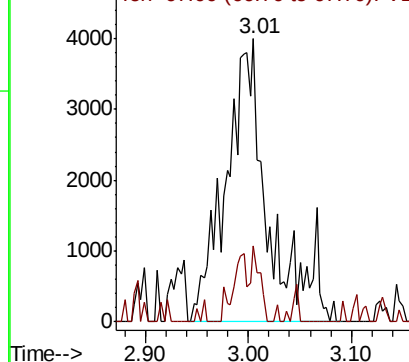
Ion Ratio Lower Upper

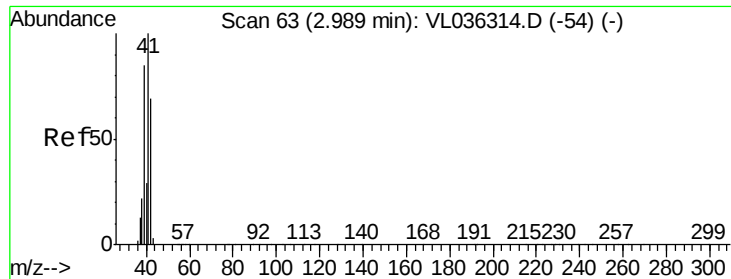
51 100

67 14.2 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.821 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.04 min

Lab File: VL036363.D

Acq: 24 Feb 2021 23:19

Instrument :

MSVOA_L

ClientSampleId :

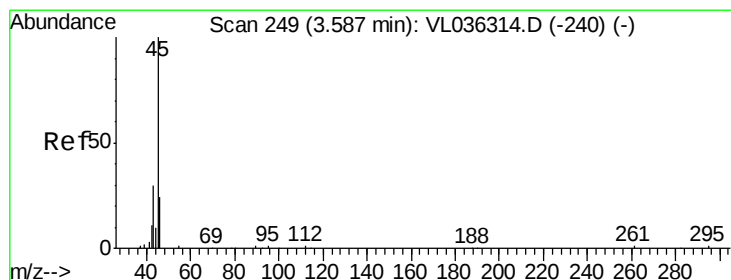
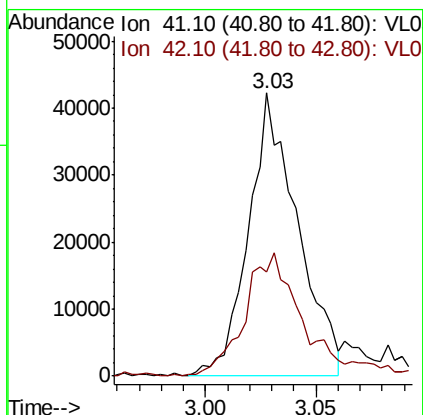
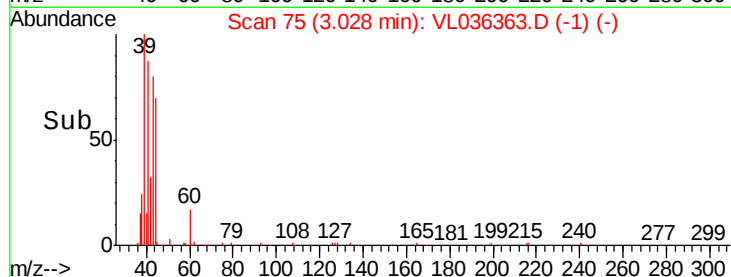
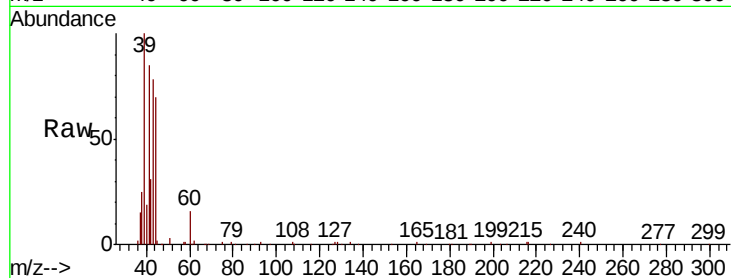
NS-1DLDP

Tot Ion: 41 Resp: 65258

Ion Ratio Lower Upper

41 100

42 52.7 56.2 84.2#



#13

Ethanol

Concen: 28.702 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.03 min

Lab File: VL036363.D

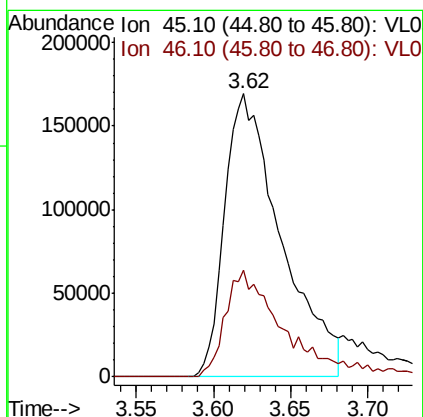
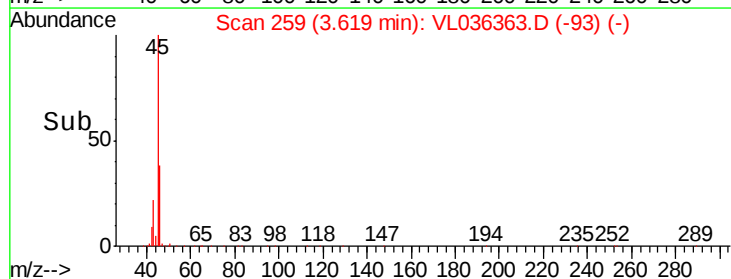
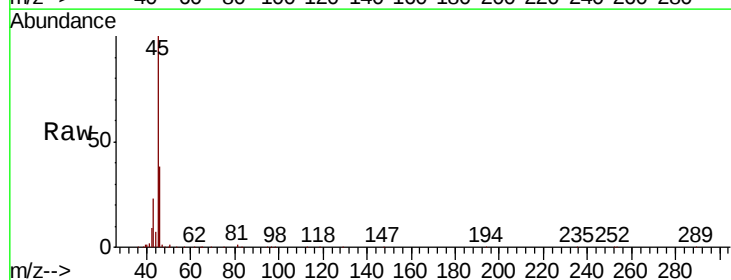
Acq: 24 Feb 2021 23:19

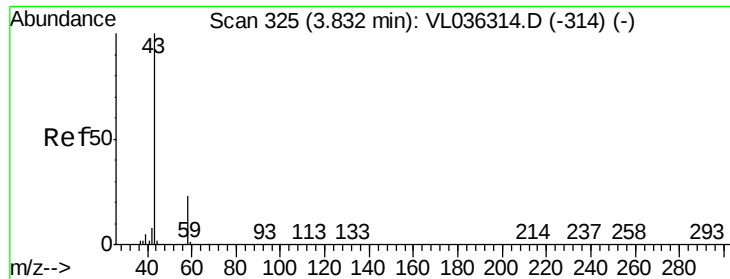
Tgt Ion: 45 Resp: 428771

Ion Ratio Lower Upper

45 100

46 40.7 17.7 70.7

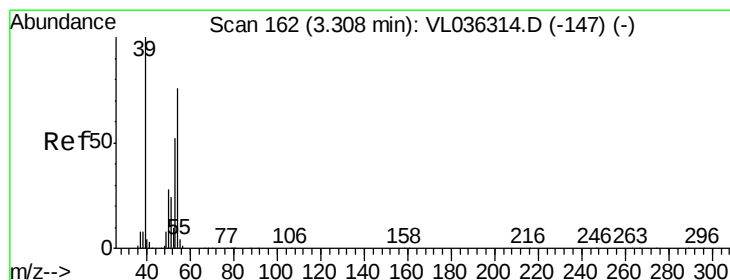
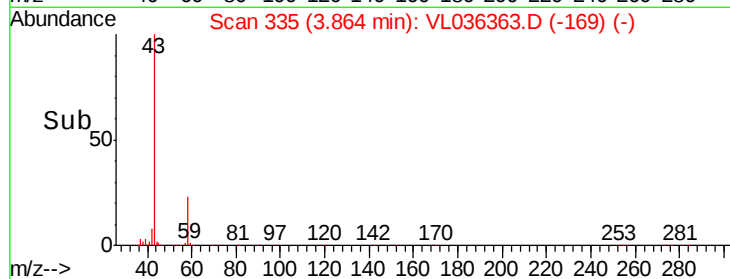
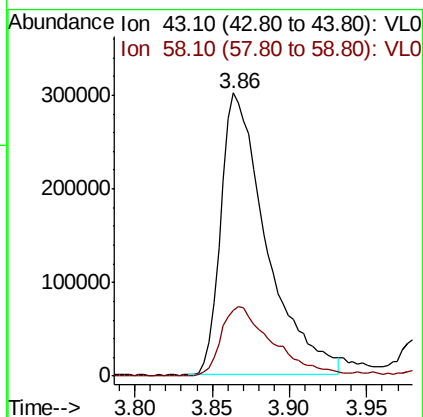
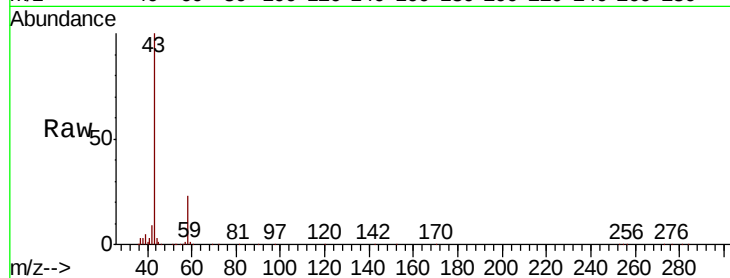




#15
Acetone
Concen: 2.944 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.03 min
Lab File: VL036363.D
Acq: 24 Feb 2021 23:19

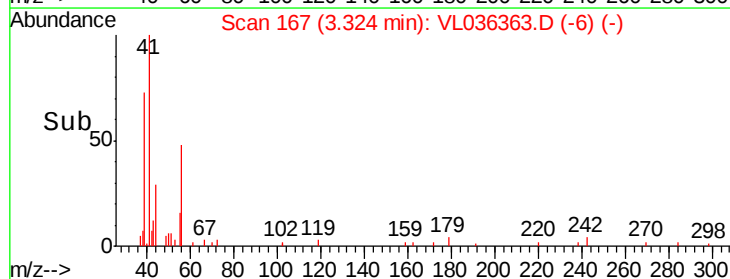
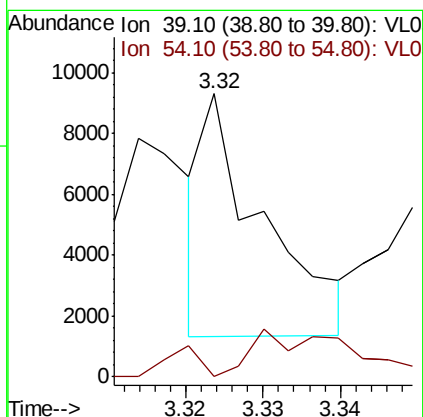
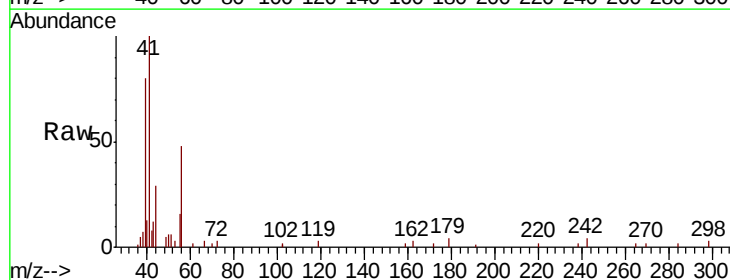
Instrument :
MSVOA_L
ClientSampleId :
NS-1DLDP

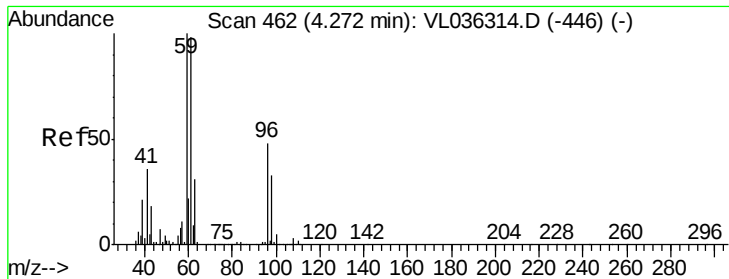
Tot Ion: 43 Resp: 617864
Ion Ratio Lower Upper
43 100
58 28.7 20.3 30.5



#16
1,3-Butadiene
Concen: 0.043 ppbv
RT: 3.32 min Scan# 167
Delta R.T. 0.02 min
Lab File: VL036363.D
Acq: 24 Feb 2021 23:19

Tgt Ion: 39 Resp: 4323
Ion Ratio Lower Upper
39 100
54 47.7 64.4 96.6#



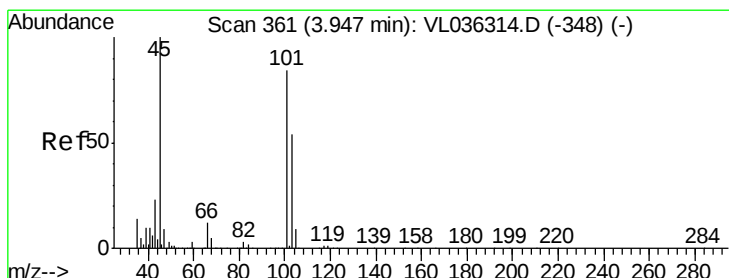
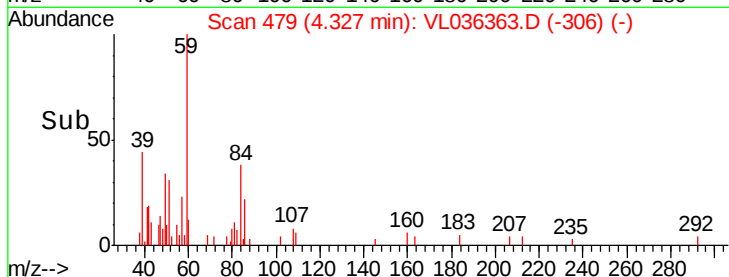
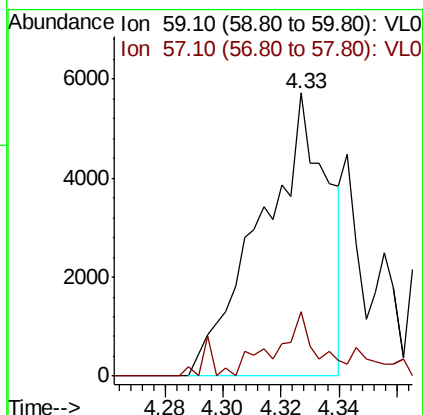
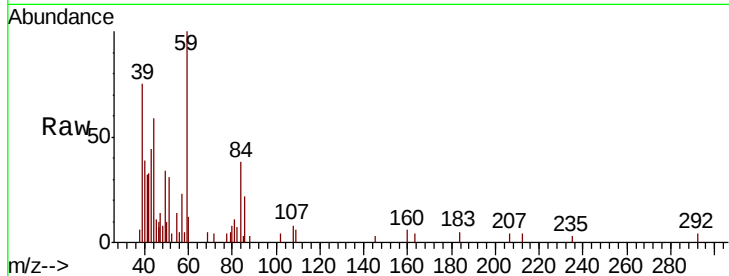


#17

tert-Butyl alcohol
 Concen: 0.056 ppbv
 RT: 4.33 min Scan# 479
 Delta R.T. 0.05 min
 Lab File: VL036363.D
 Acq: 24 Feb 2021 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-1DLDP

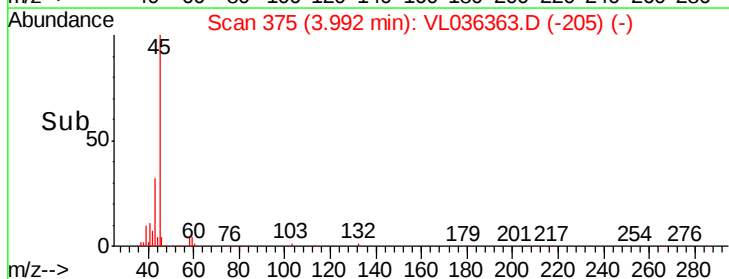
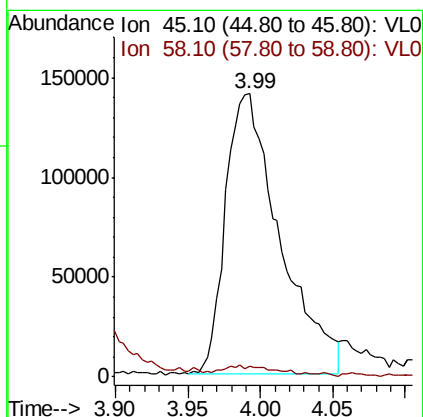
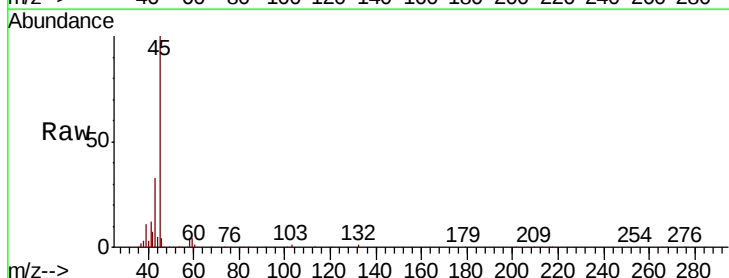
Tot Ion: 59 Resp: 9132
 Ion Ratio Lower Upper
 59 100
 57 20.9 9.0 13.4#

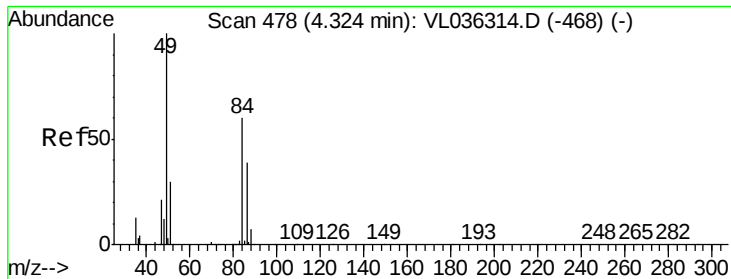


#19

Isopropyl Alcohol
 Concen: 3.163 ppbv
 RT: 3.99 min Scan# 375
 Delta R.T. 0.05 min
 Lab File: VL036363.D
 Acq: 24 Feb 2021 23:19

Tgt Ion: 45 Resp: 367766
 Ion Ratio Lower Upper
 45 100
 58 5.4 1.9 2.9#

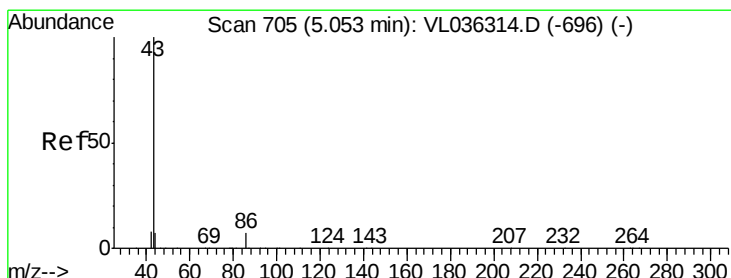
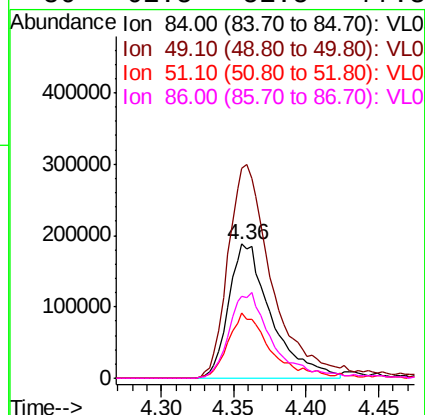
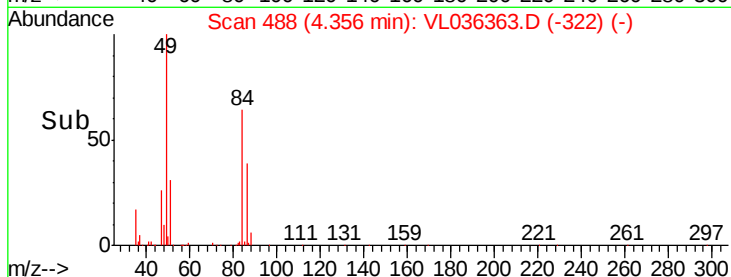
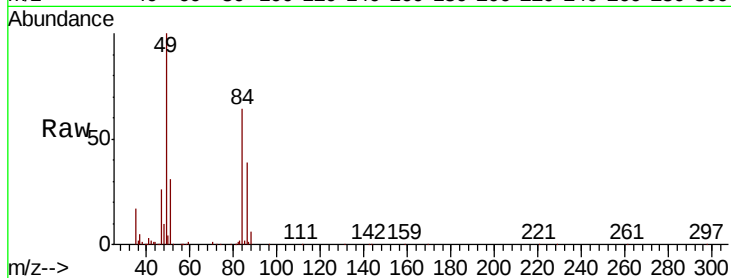




#20
Methvlene Chloride
Concen: 5.655 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.03 min
Lab File: VL036363.D
Acq: 24 Feb 2021 23:19

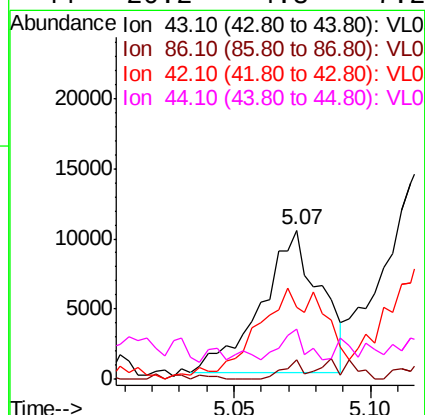
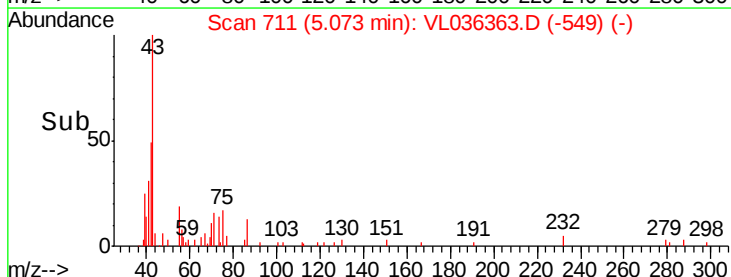
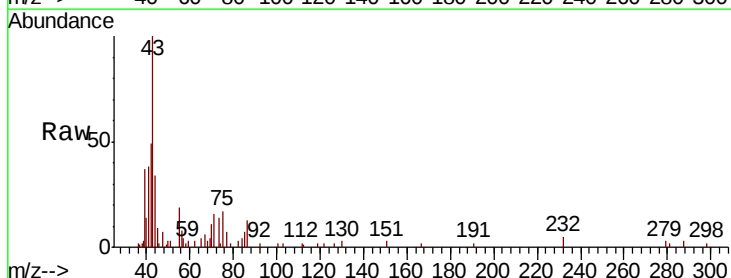
Instrument :
MSVOA_L
ClientSampleId :
NS-1DLDP

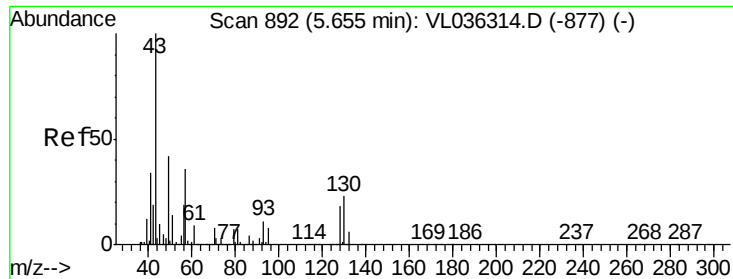
Tot Ion:	84	Resp:	382908
Ion	Ratio	Lower	Upper
84	100		
49	156.0	133.8	200.8
51	48.2	41.4	62.0
86	61.5	51.5	77.3



#23
Vinyl Acetate
Concen: 0.061 ppbv
RT: 5.07 min Scan# 711
Delta R.T. 0.02 min
Lab File: VL036363.D
Acq: 24 Feb 2021 23:19

Tgt Ion:	43	Resp:	15106
Ion	Ratio	Lower	Upper
43	100		
86	13.9	4.8	7.2#
42	47.9	7.4	11.0#
44	20.2	4.8	7.2#

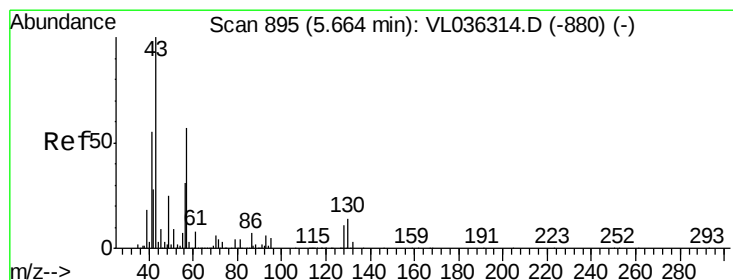
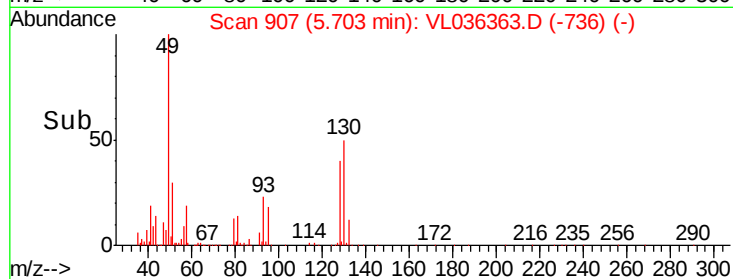
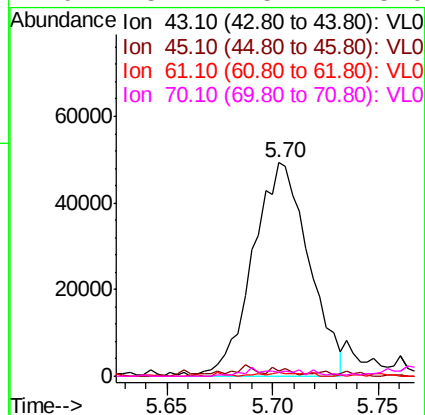
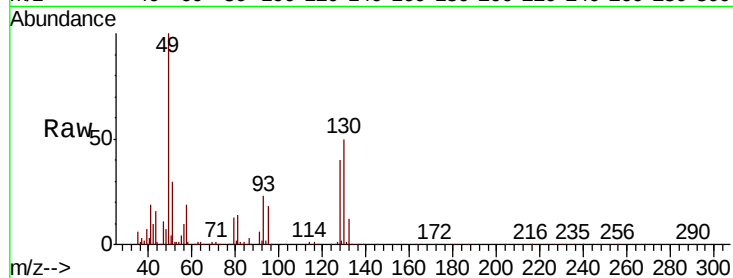




#25
Ethyl Acetate
Concen: 0.222 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.05 min
Lab File: VL036363.D
Acq: 24 Feb 2021 23:19

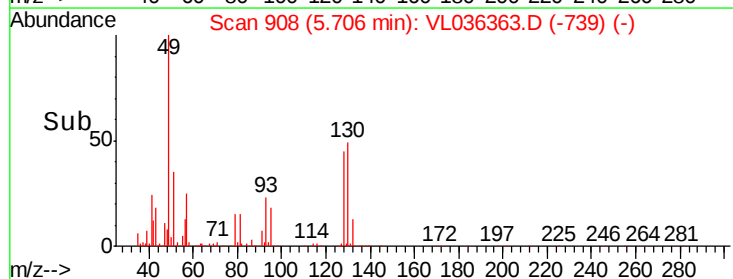
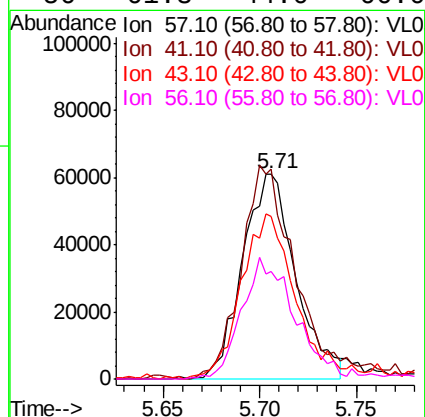
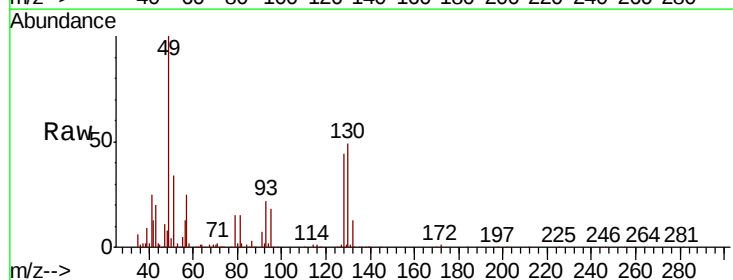
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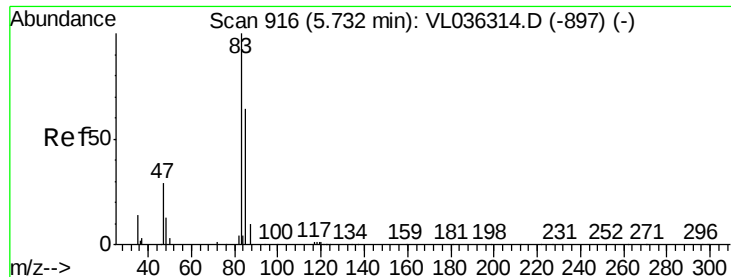
Tot Ion:	43	Resp:	90016
Ion	Ratio	Lower	Upper
43	100		
45	6.3	8.3	12.5#
61	1.7	7.3	10.9#
70	3.7	5.4	8.0#



#26
Hexane
Concen: 0.701 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.04 min
Lab File: VL036363.D
Acq: 24 Feb 2021 23:19

Tgt Ion:	57	Resp:	116712
Ion	Ratio	Lower	Upper
57	100		
41	110.0	81.7	122.5
43	87.6	199.1	298.7#
56	61.3	44.0	66.0





#29

Chloroform

Concen: 0.487 ppbv

RT: 5.77 min Scan# 928

Delta R.T. 0.04 min

Lab File: VL036363.D

Acq: 24 Feb 2021 23:19

Instrument :

MSVOA_L

ClientSampleId :

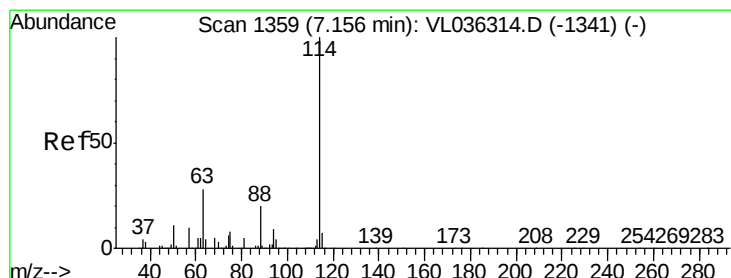
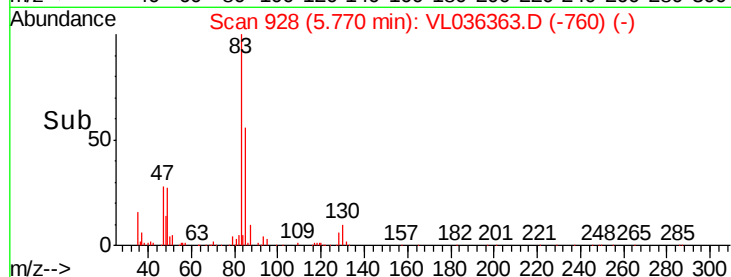
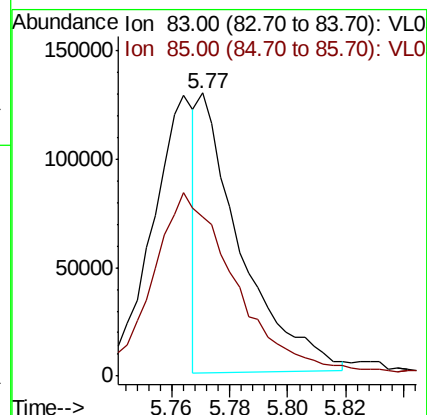
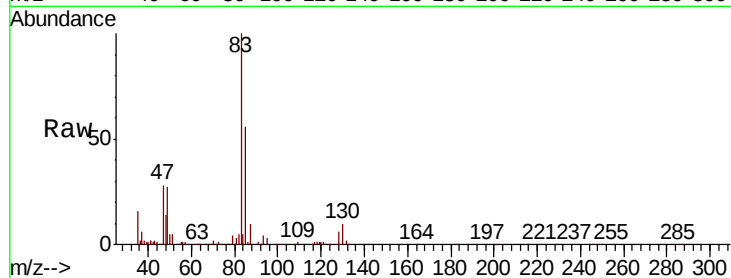
NS-1DLDP

Tot Ion: 83 Resp: 130510

Ion Ratio Lower Upper

83 100

85 55.6 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. 0.04 min

Lab File: VL036363.D

Acq: 24 Feb 2021 23:19

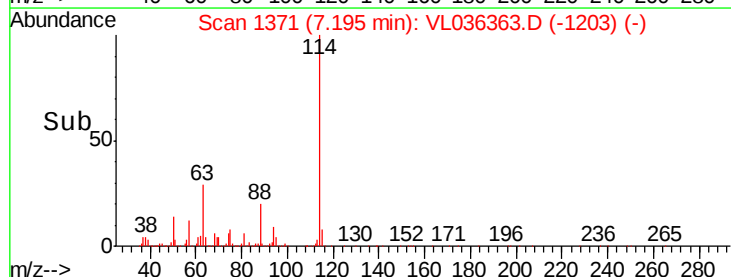
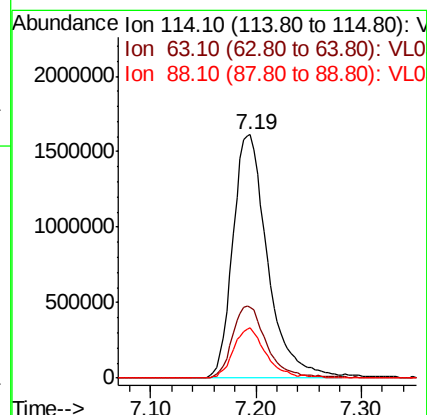
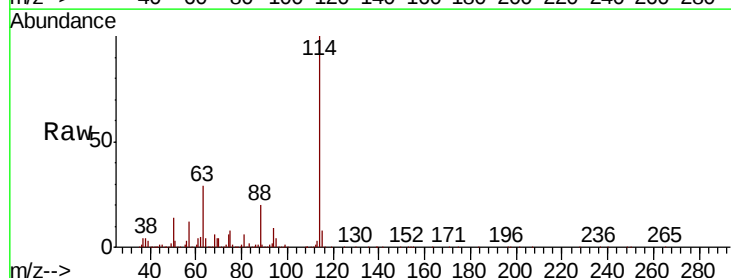
Tgt Ion: 114 Resp: 3683795

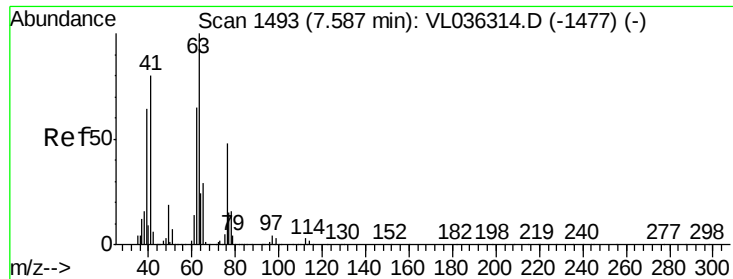
Ion Ratio Lower Upper

114 100

63 29.6 24.1 36.1

88 19.6 16.0 24.0

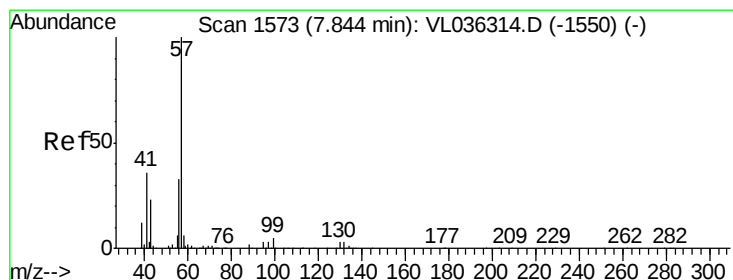
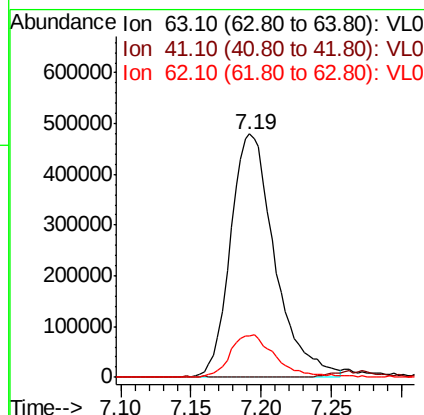
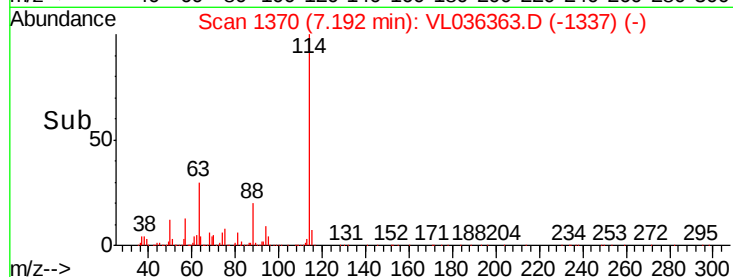
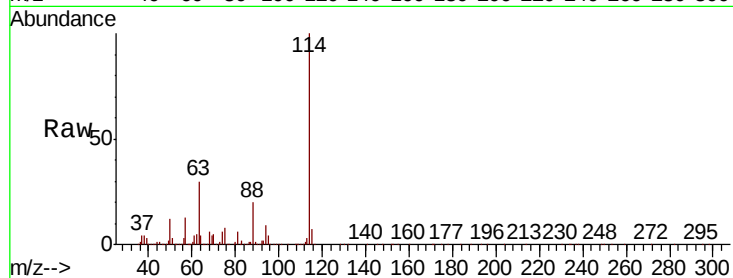




#39
 1,2-Dichloropropane
 Concen: 8.241 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.40 min
 Lab File: VL036363.D
 Acq: 24 Feb 2021 23:19

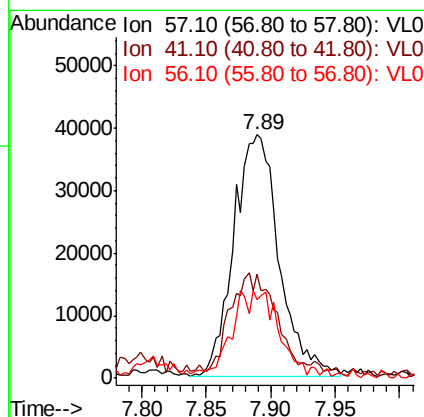
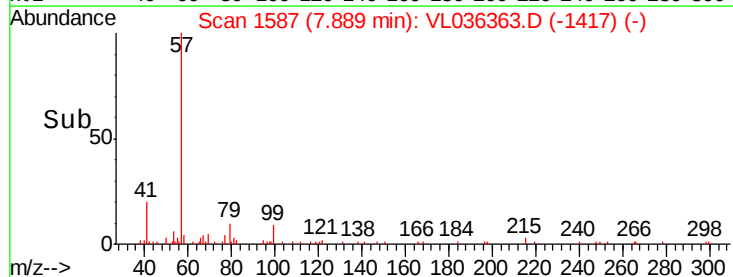
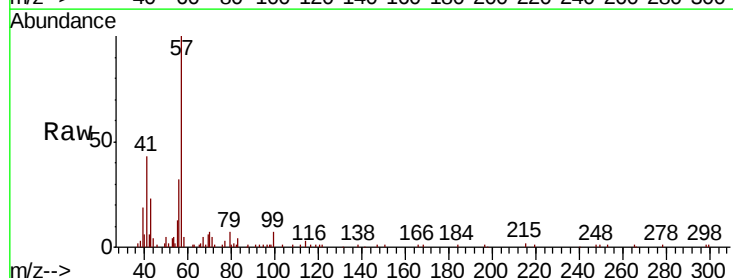
Instrument :
 MSVOA_L
 ClientSampleId :
 NS-1DLDP

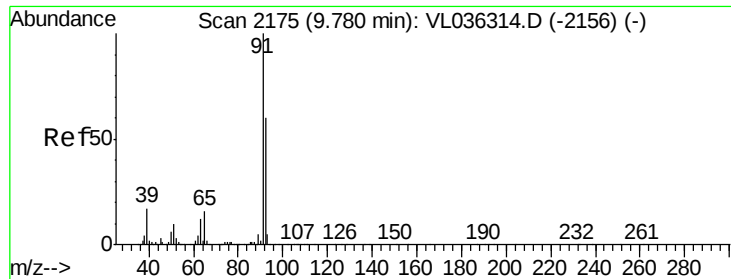
Tot Ion: 63 Resp: 1047587
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.8 95.6#
 62 17.0 52.3 78.5#



#44
 2,2,4-Trimethylpentane
 Concen: 0.166 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. 0.05 min
 Lab File: VL036363.D
 Acq: 24 Feb 2021 23:19

Tgt Ion: 57 Resp: 94360
 Ion Ratio Lower Upper
 57 100
 41 43.4 28.8 43.2#
 56 40.7 25.8 38.6#





#53

Toluene

Concen: 0.373 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.05 min

Lab File: VL036363.D

Acq: 24 Feb 2021 23:19

Instrument :

MSVOA_L

ClientSampleId :

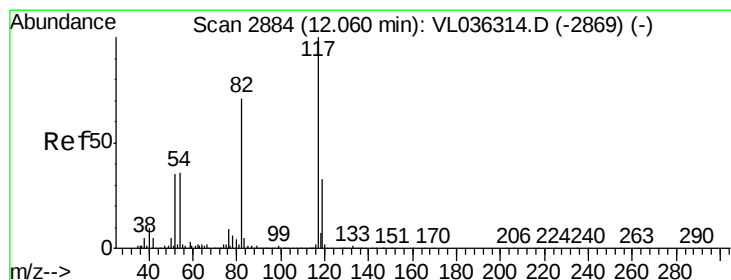
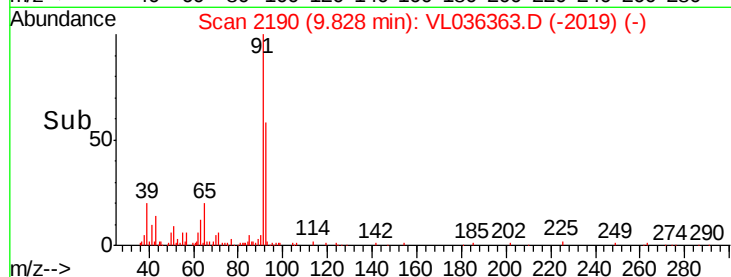
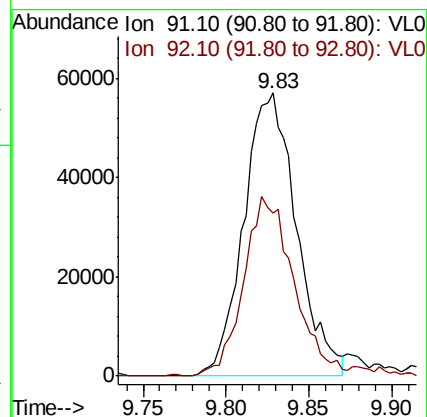
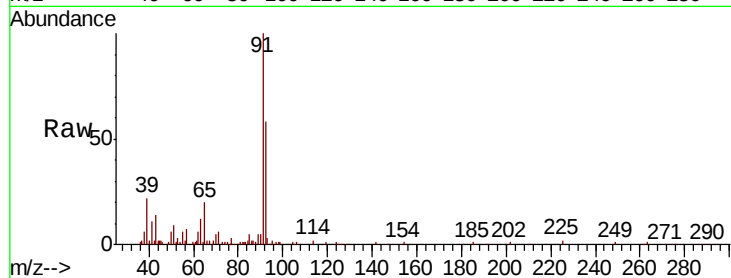
NS-1DLDP

Tot Ion: 91 Resp: 126347

Ion Ratio Lower Upper

91 100

92 62.9 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.05 min

Lab File: VL036363.D

Acq: 24 Feb 2021 23:19

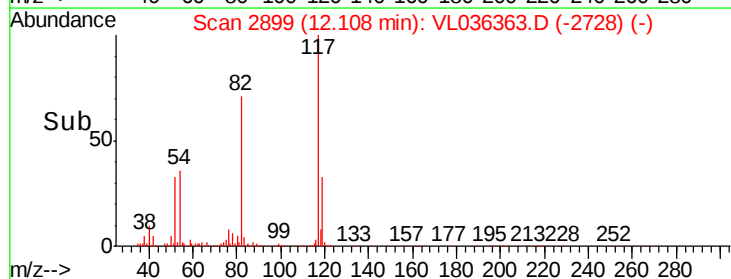
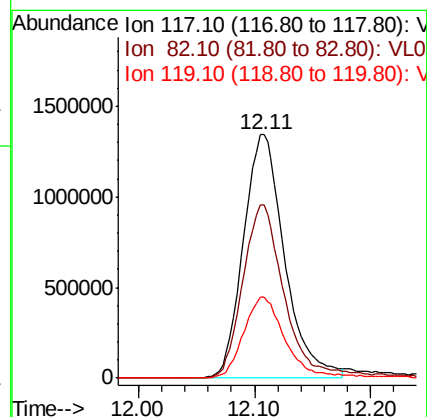
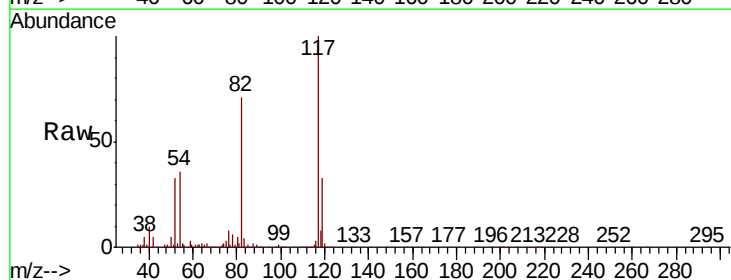
Tgt Ion: 117 Resp: 3318563

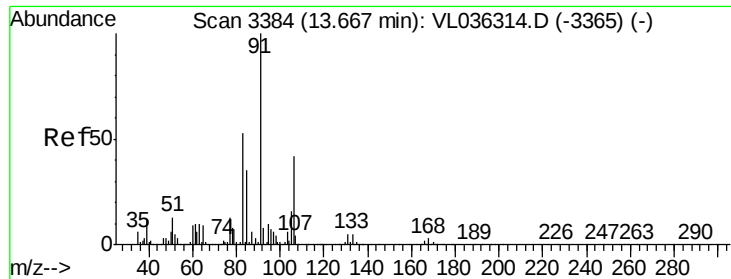
Ion Ratio Lower Upper

117 100

82 73.8 59.1 88.7

119 34.7 46.3 69.5#

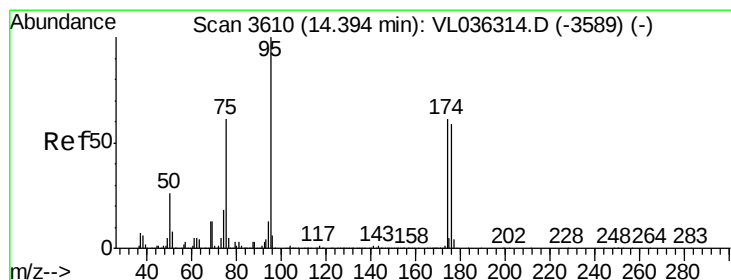
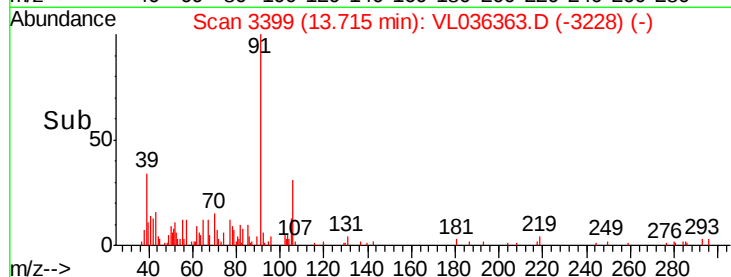
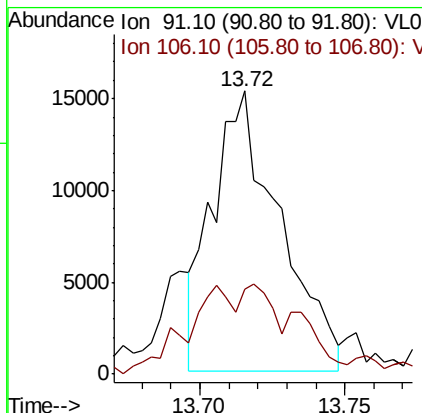
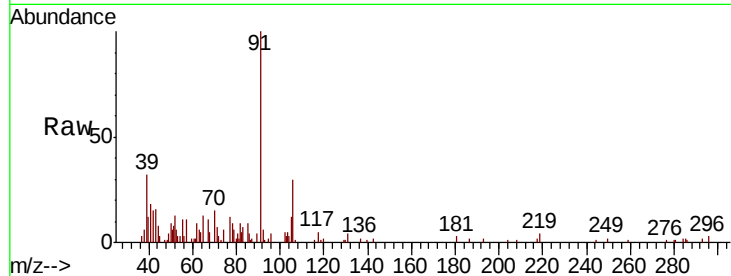




#60
o-Xylene
Concen: 0.064 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. 0.05 min
Lab File: VL036363.D
Acq: 24 Feb 2021 23:19

Instrument :
MSVOA_L
ClientSampleId :
NS-1DLDP

Tot Ion: 91 Resp: 24512
Ion Ratio Lower Upper
91 100
106 54.1 22.0 66.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.636 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. 0.04 min
Lab File: VL036363.D
Acq: 24 Feb 2021 23:19

Tgt Ion: 95 Resp: 2631060
Ion Ratio Lower Upper
95 100
174 65.7 49.8 74.6
175 4.7 3.7 5.5

