

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030121\
 Data File : VL036419.D
 Acq On : 1 Mar 2021 17:51
 Operator : SY/AP
 Sample : M1458-13 0.40LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 02 02:42:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	1678960	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.19	114	3753862	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.11	117	3327129	10.00	ppbv	0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2708513	9.89	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	121692	0.486	ppbv 98
3) Chlorodifluoromethane	3.00	51	96132	0.461	ppbv 100
4) Chloromethane	3.15	50	45963	0.456	ppbv 90
5) Vinyl Chloride	3.27	62	38334	0.408	ppbv 93
6) Bromomethane	3.48	94	25960	0.465	ppbv 93
7) Chloroethane	3.57	64	12863	0.386	ppbv 92
8) Dichlorotetrafluoroethane	3.20	85	104726	0.460	ppbv 97
9) Propene	3.01	41	33246	0.427	ppbv 86
10) Heptane	8.14	43	73460	0.320	ppbv 93
11) Trichlorofluoromethane	3.96	101	107665	0.439	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	67925	0.447	ppbv 94
13) Ethanol	3.62	45	5286	0.362	ppbv # 32
14) Bromoethene	3.75	108	14149	0.222	ppbv # 25
15) Acetone	3.88	43	96718	0.471	ppbv # 79
16) 1,3-Butadiene	3.34	39	30507	0.311	ppbv # 81
17) tert-Butyl alcohol	4.32	59	45189	0.284	ppbv # 87
18) 1,1-Dichloroethene	4.30	96	12592	0.182	ppbv 93
20) Methylene Chloride	4.36	84	21751	0.329	ppbv # 82
21) Allvl Chloride	4.42	41	40620	0.355	ppbv 94
22) trans-1,2-Dichloroethene	4.90	96	22617	0.360	ppbv # 72
23) Vinyl Acetate	5.09	43	27493	0.114	ppbv # 92
24) 1,1-Dichloroethane	5.03	63	74012	0.415	ppbv 99
25) Ethyl Acetate	5.70	43	146656	0.370	ppbv # 95
26) Hexane	5.70	57	33086	0.203	ppbv # 1
27) Carbon Disulfide	4.56	76	27571	0.184	ppbv # 34
28) Methyl tert-Butyl Ether	5.06	73	68485	0.322	ppbv 96
29) Chloroform	5.77	83	55439	0.211	ppbv 96
30) Cyclohexane	7.16	84	15047	0.111	ppbv # 1
31) cis-1,2-Dichloroethene	5.56	61	25833	0.160	ppbv # 76
32) 1,1,1-Trichloroethane	6.53	97	98213	0.401	ppbv 96
35) Carbon Tetrachloride	7.04	117	96560	0.384	ppbv 90
36) Benzene	6.91	78	109657	0.344	ppbv 96
37) 1,2-Dichloroethane	6.32	62	77759	0.394	ppbv 98
38) Trichloroethene	7.85	130	37140	0.325	ppbv 92
39) 1,2-Dichloropropane	7.63	63	39299	0.303	ppbv # 90
41) Tetrahydrofuran	6.09	42	18501	0.133	ppbv # 27
42) Bromodichloromethane	7.81	83	100274	0.380	ppbv # 88
43) Methyl Methacrylate	8.03	69	32727	0.243	ppbv # 76
44) 2,2,4-Trimethylpentane	7.89	57	219636	0.379	ppbv 94
45) t-1,3-Dichloropropene	9.30	75	14243	0.110	ppbv 90
46) cis-1,3-Dichloropropene	8.72	75	26878	0.163	ppbv 93

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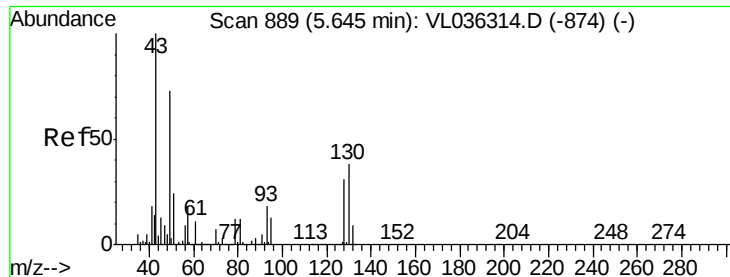
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 02 02:42:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

47) 1,1,2-Trichloroethane	9.50	97	22072	0.166	ppbv #	80
48) Dibromochloromethane	10.32	129	40543	0.205	ppbv #	38
50) 4-Methyl-2-Pentanone	8.78	43	59756	0.161	ppbv #	40
51) 2-Hexanone	10.17	43	25895	0.092	ppbv #	6
52) Tetrachloroethene	11.24	164	16827	0.144	ppbv #	94
53) Toluene	9.83	91	57897	0.168	ppbv #	39
56) 1,1,1,2-Tetrachloroethane	12.15	131	65034	0.425	ppbv #	1
57) Chlorobenzene	12.17	112	67838	0.264	ppbv #	90
59) m/p-Xylene	13.02	91	130612	0.326	ppbv #	26
60) o-Xylene	13.72	91	61018	0.159	ppbv #	32
61) Styrene	13.55	104	31067	0.131	ppbv #	25
62) Isopropylbenzene	14.69	105	107134	0.187	ppbv #	46
63) 1,1,2,2-Tetrachloroethane	13.70	83	122618	0.406	ppbv #	96
64) n-propylbenzene	15.59	120	22217	0.157	ppbv #	1
65) tert-Butylbenzene	16.77	119	165164	0.337	ppbv #	85
66) Benzyl Chloride	17.04	91	6242	0.047	ppbv #	57
67) sec-Butylbenzene	17.32	105	249367	0.352	ppbv #	99
69) p-Isopropyltoluene	17.68	119	175682	0.321	ppbv #	94
70) n-Butylbenzene	18.58	91	165399	0.282	ppbv #	94
71) 2-Chlorotoluene	15.47	91	157621	0.359	ppbv #	98
72) 4-Ethyltoluene	15.87	105	129852	0.305	ppbv #	95
74) 1,2,4-Trimethylbenzene	16.79	105	150785	0.358	ppbv #	97
76) 1,4-Dichlorobenzene	17.16	146	86507	0.364	ppbv #	92
77) 1,2-Dichlorobenzene	17.85	146	38500	0.170	ppbv #	2
80) Naphthalene,2-methyl-	25.07	142	1905	0.041	ppbv #	30

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.04 min

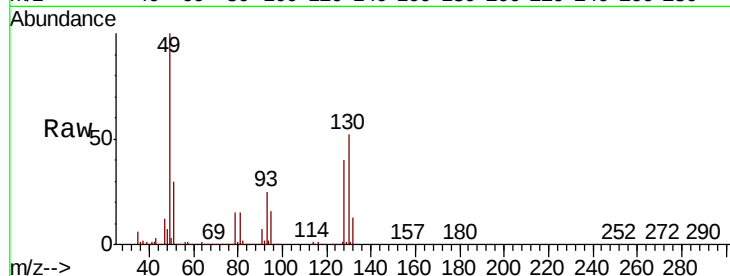
Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1678960

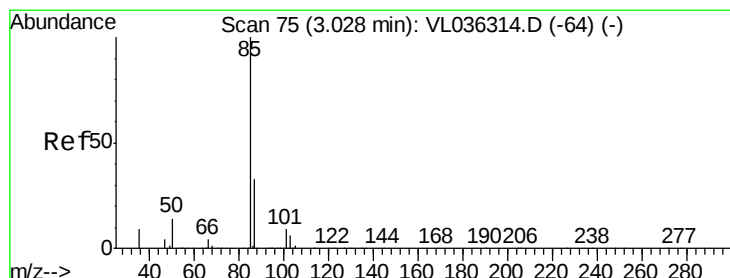
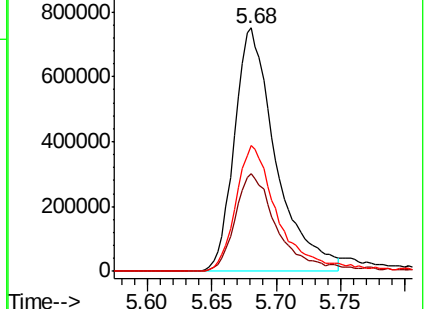
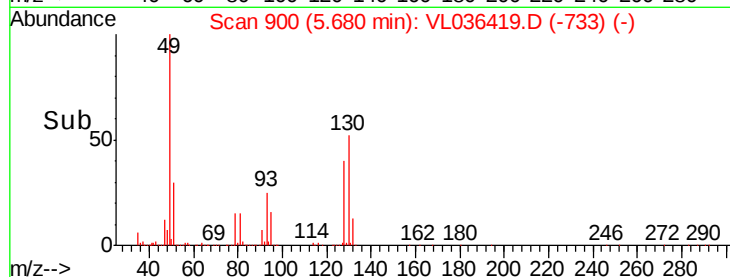
Ion	Ratio	Lower	Upper
49	100		
128	43.1	20.8	62.5
130	53.0	26.7	80.1



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: 0.486 ppbv

RT: 3.05 min Scan# 83

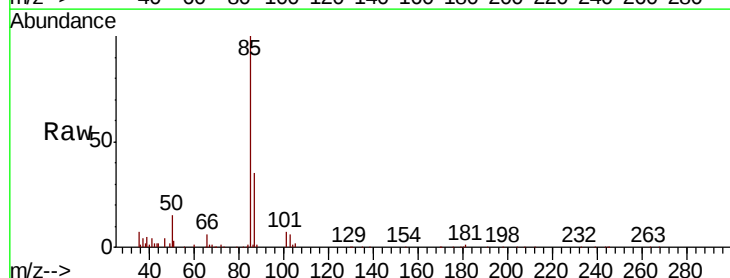
Delta R.T. 0.03 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

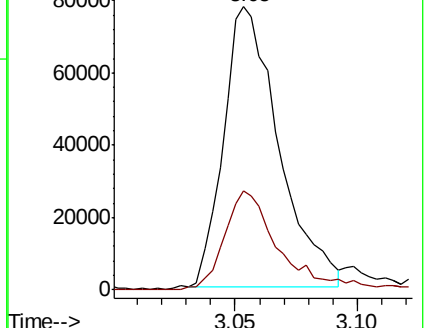
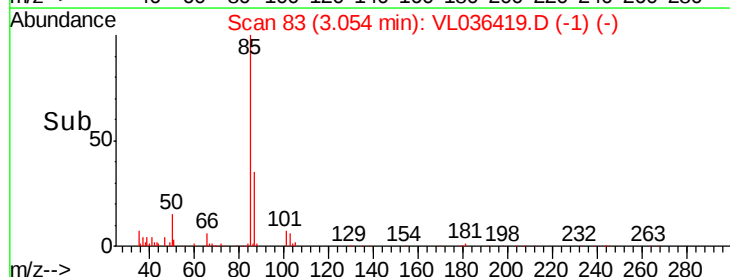
Tgt Ion: 85 Resp: 121692

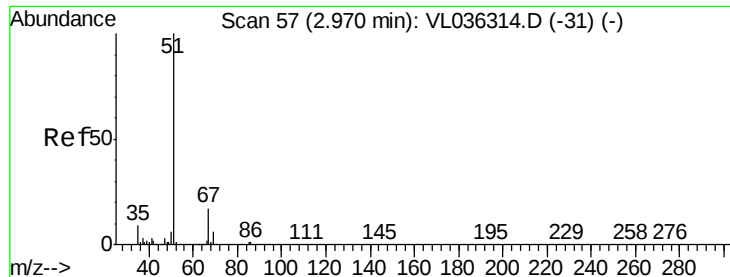
Ion	Ratio	Lower	Upper
85	100		
87	34.5	26.5	39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.461 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.03 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

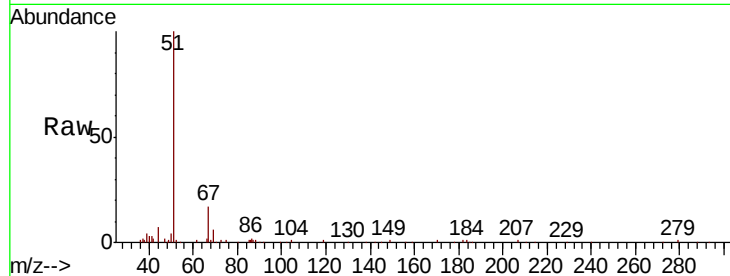
ClientSampleId :

Tot Ion: 51 Resp: 96132

Ion Ratio Lower Upper

51 100

67 18.2 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.00

60000

50000

40000

30000

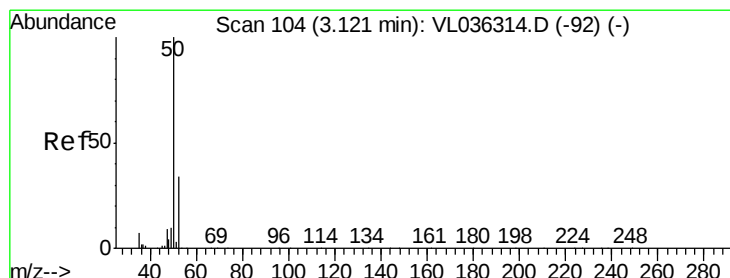
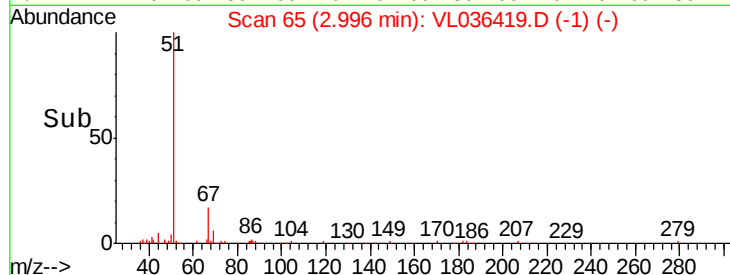
20000

10000

0

Time-->

2.90 3.00 3.10



#4

Chloromethane

Concen: 0.456 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.03 min

Lab File: VL036419.D

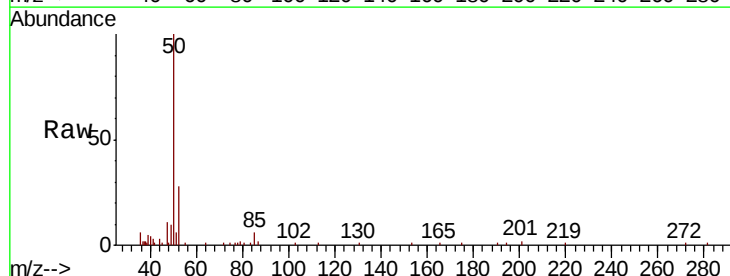
Acq: 1 Mar 2021 17:51

Tgt Ion: 50 Resp: 45963

Ion Ratio Lower Upper

50 100

52 28.2 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.15

30000

25000

20000

15000

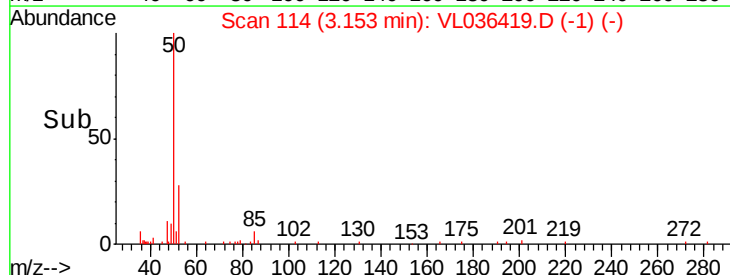
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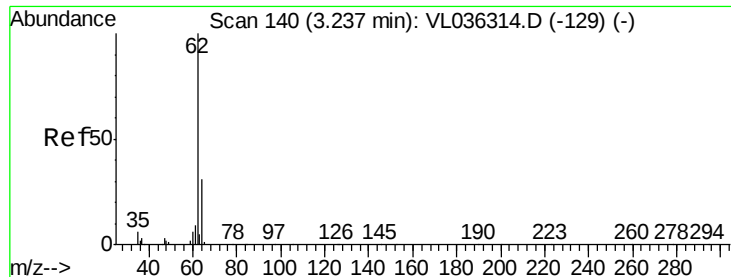
5000

0

Time-->

3.10 3.15





#5

Vinyl Chloride

Concen: 0.408 ppbv

RT: 3.27 min Scan# 150

Delta R.T. 0.03 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

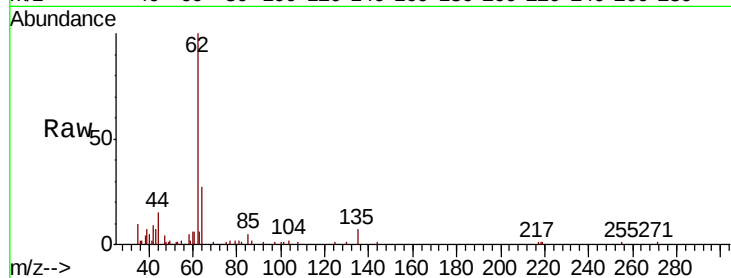
ClientSampleId :

Tot Ion: 62 Resp: 38334

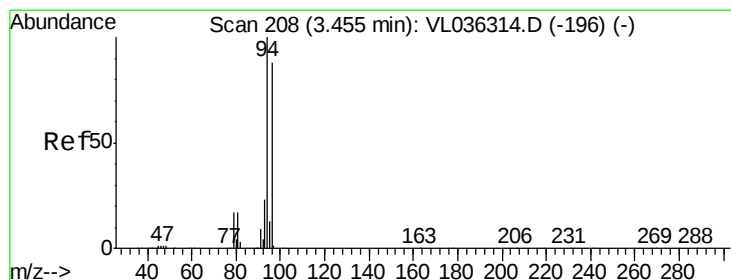
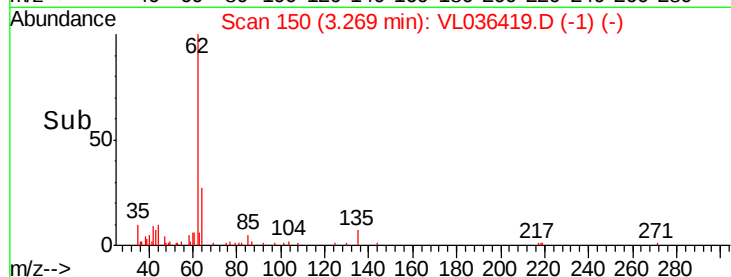
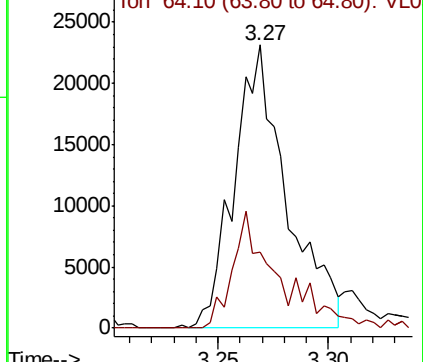
Ion Ratio Lower Upper

62 100

64 26.8 24.4 36.6



Abundance Ion 62.10 (61.80 to 62.80): VL0



#6

Bromomethane

Concen: 0.465 ppbv

RT: 3.48 min Scan# 217

Delta R.T. 0.03 min

Lab File: VL036419.D

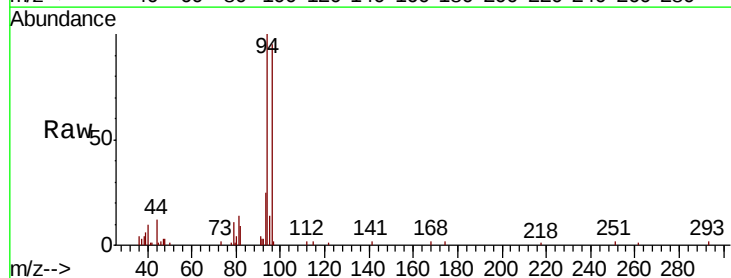
Acq: 1 Mar 2021 17:51

Tgt Ion: 94 Resp: 25960

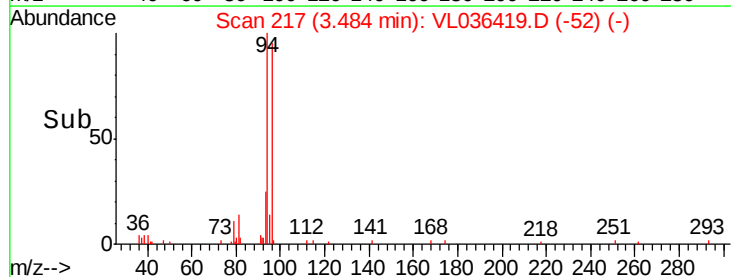
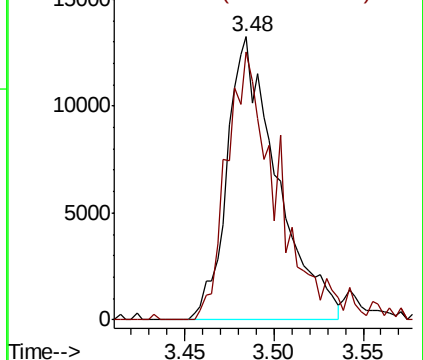
Ion Ratio Lower Upper

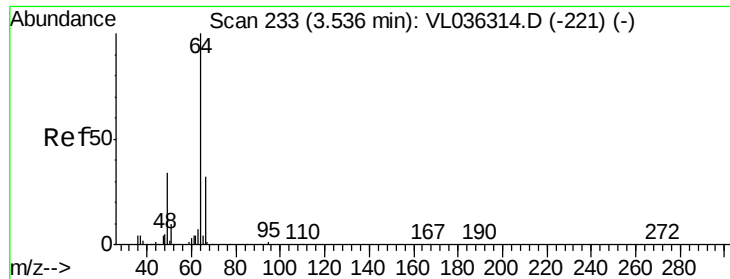
94 100

96 94.8 70.8 106.2



Abundance Ion 94.00 (93.70 to 94.70): VL0





#7

Chloroethane

Concen: 0.386 ppbv

RT: 3.57 min Scan# 243

Delta R.T. 0.03 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

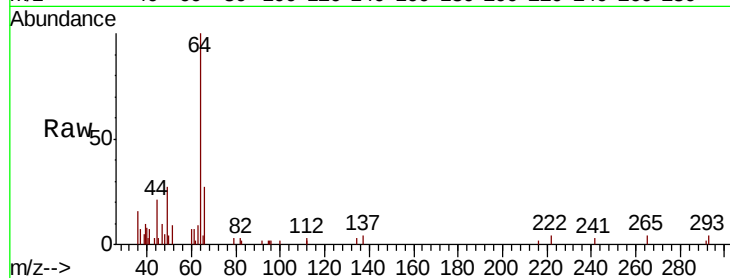
ClientSampleId :

Tot Ion: 64 Resp: 12863

Ion Ratio Lower Upper

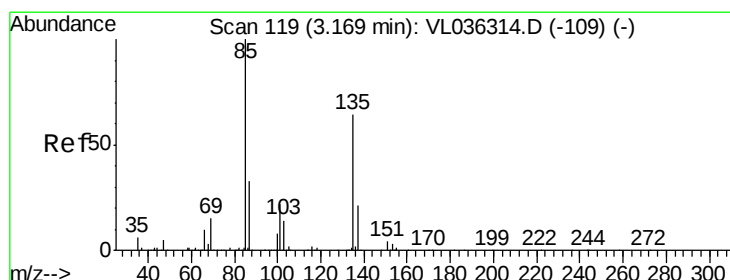
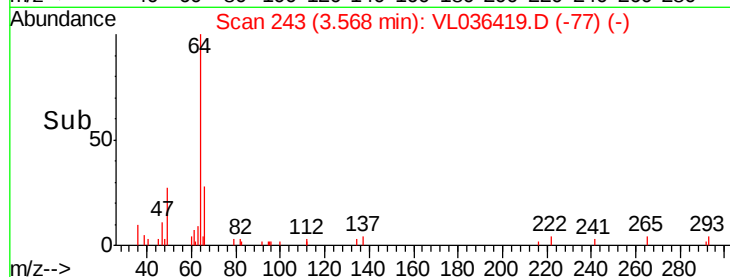
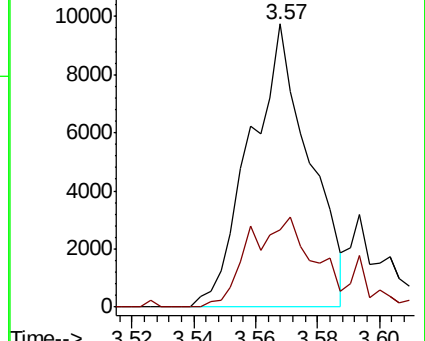
64 100

66 27.3 25.6 38.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.460 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.03 min

Lab File: VL036419.D

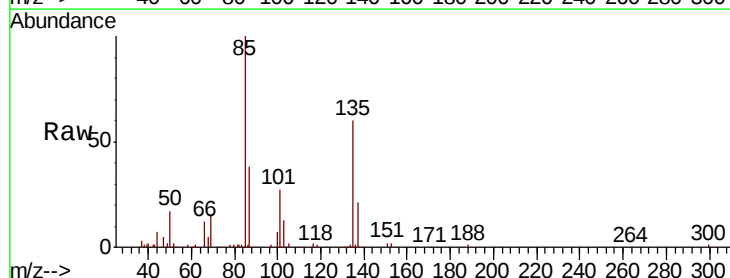
Acq: 1 Mar 2021 17:51

Tgt Ion: 85 Resp: 104726

Ion Ratio Lower Upper

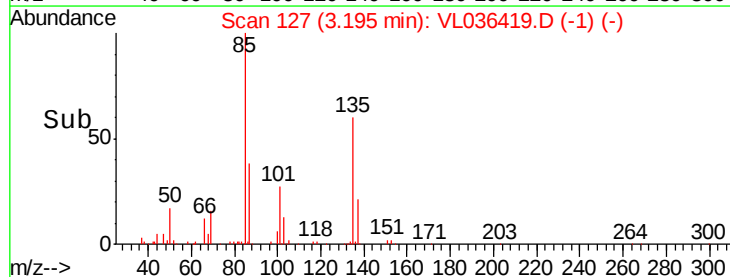
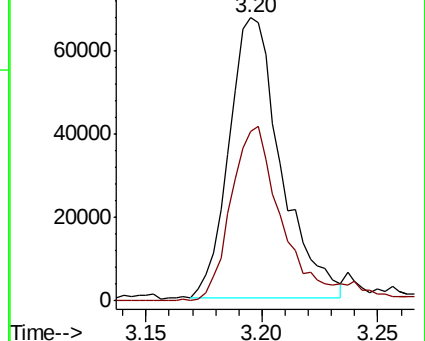
85 100

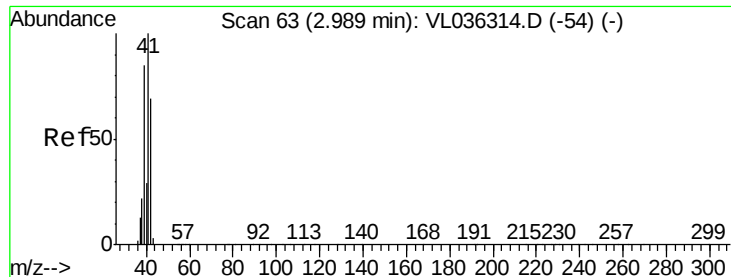
135 66.1 51.1 76.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.427 ppbv

RT: 3.01 min Scan# 71

Delta R.T. 0.03 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

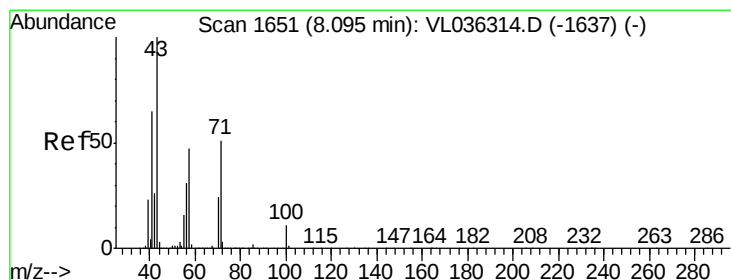
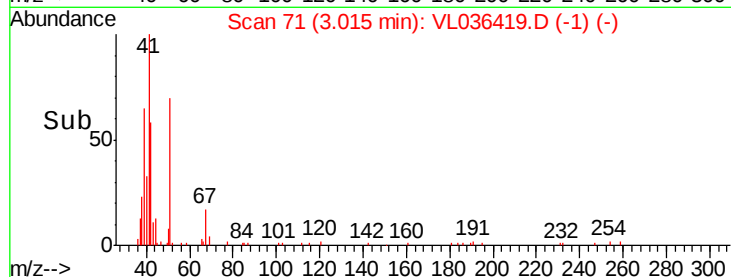
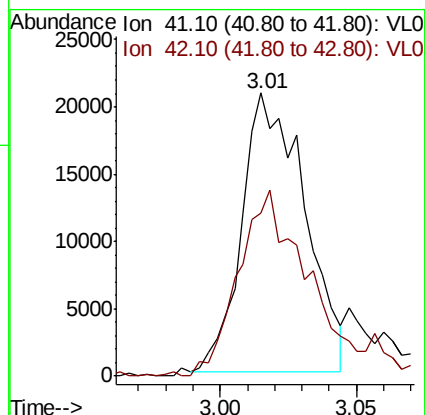
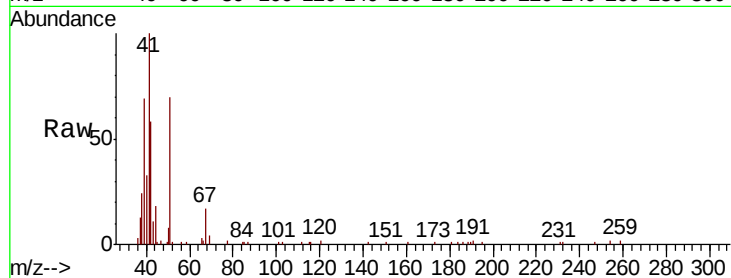
ClientSampleId :

Tot Ion: 41 Resp: 33246

Ion Ratio Lower Upper

41 100

42 81.4 56.2 84.2



#10

Heptane

Concen: 0.320 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.05 min

Lab File: VL036419.D

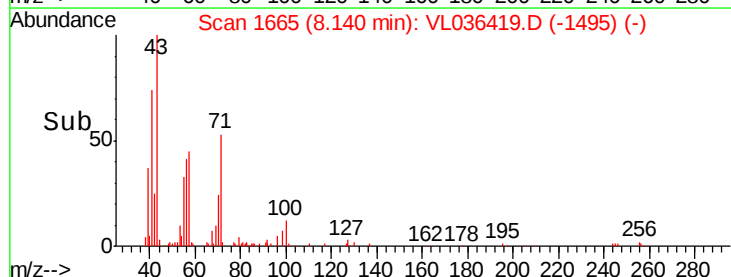
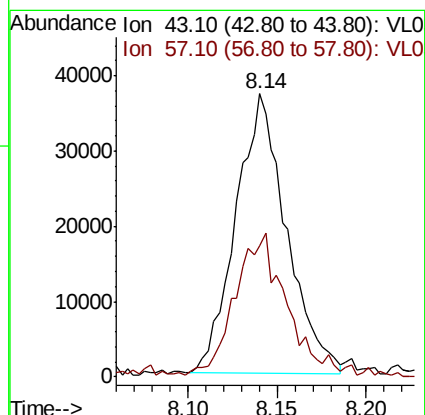
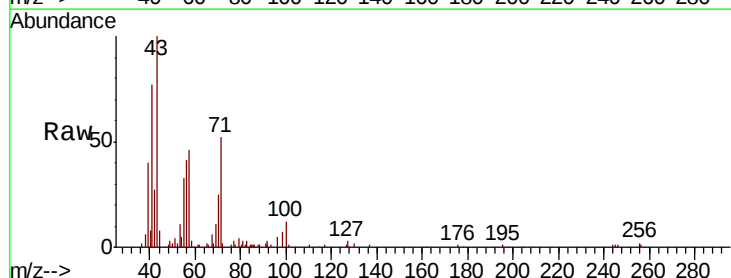
Acq: 1 Mar 2021 17:51

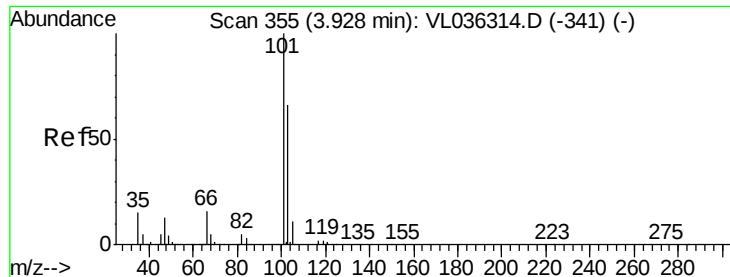
Tgt Ion: 43 Resp: 73460

Ion Ratio Lower Upper

43 100

57 54.2 39.4 59.2





#11

Trichlorofluoromethane

Concen: 0.439 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.03 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

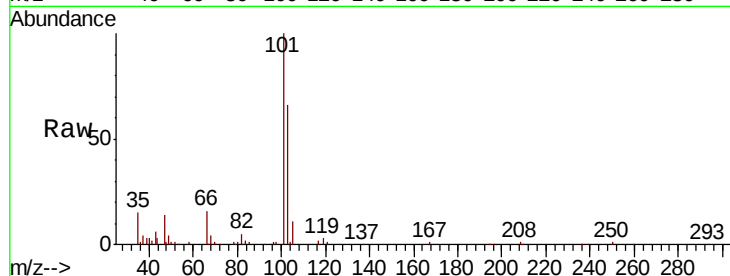
ClientSampleId :

Tot Ion:101 Resp: 107665

Ion Ratio Lower Upper

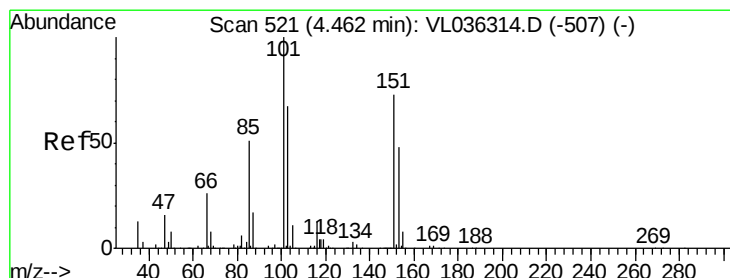
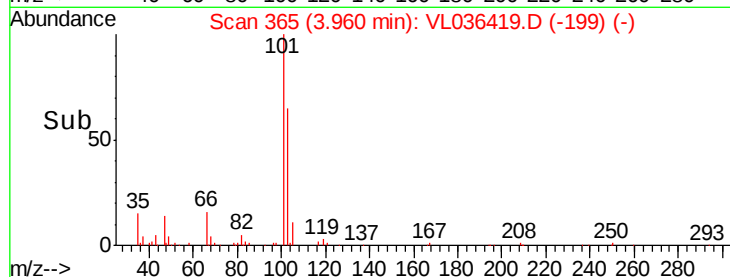
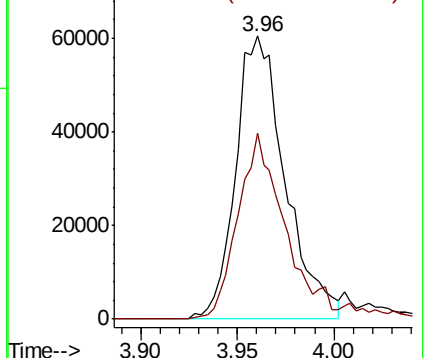
101 100

103 65.8 52.9 79.3



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: 0.447 ppbv

RT: 4.50 min Scan# 533

Delta R.T. 0.04 min

Lab File: VL036419.D

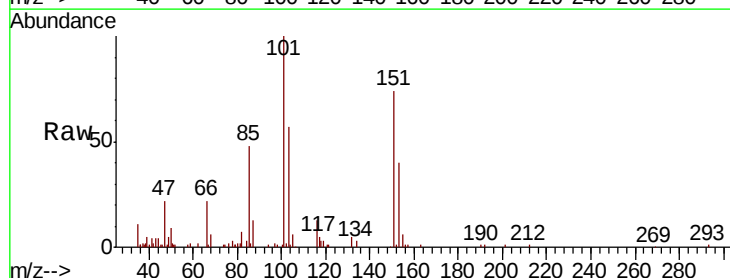
Acq: 1 Mar 2021 17:51

Tgt Ion:101 Resp: 67925

Ion Ratio Lower Upper

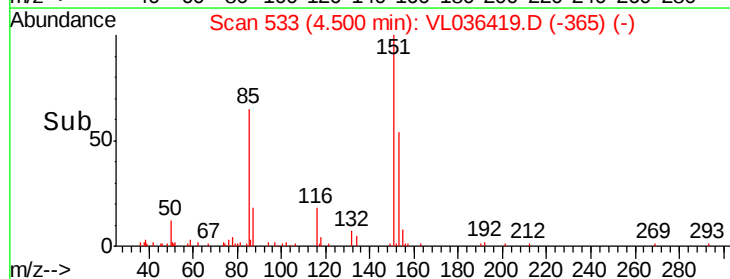
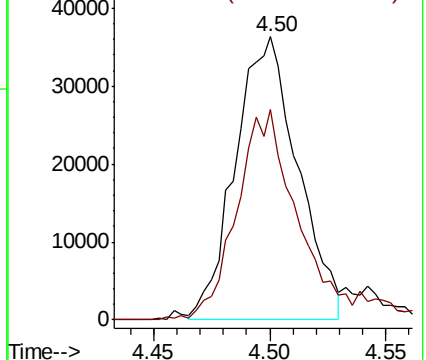
101 100

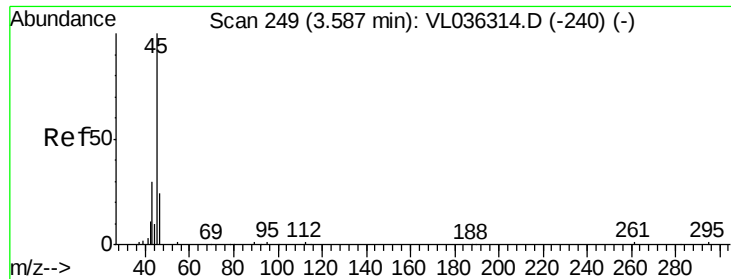
151 77.4 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

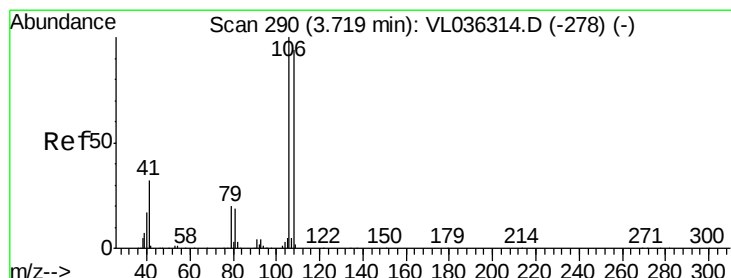
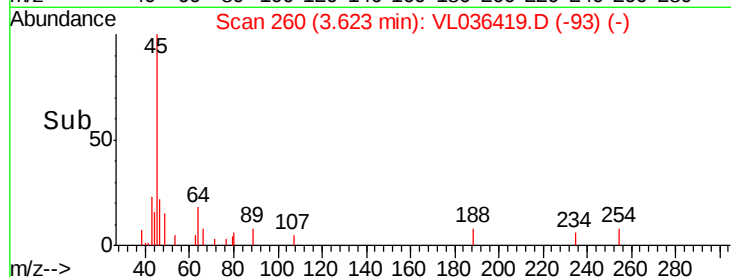
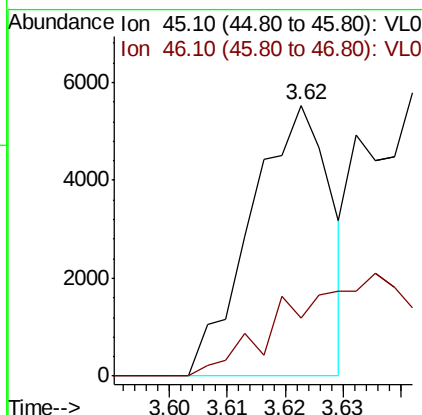
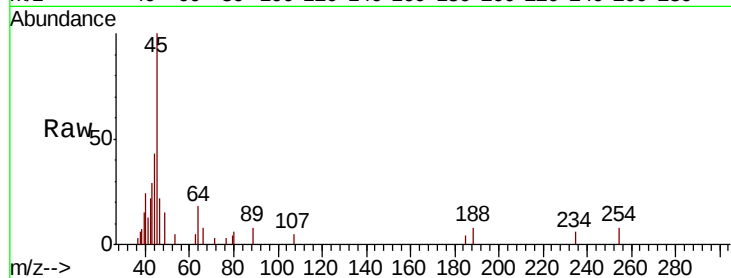




#13
Ethanol
Concen: 0.362 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.04 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

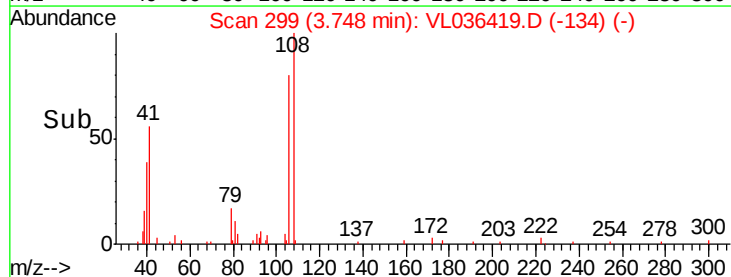
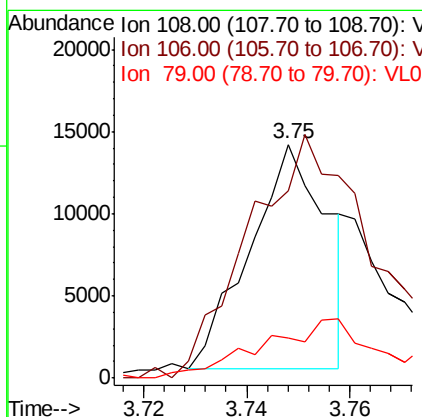
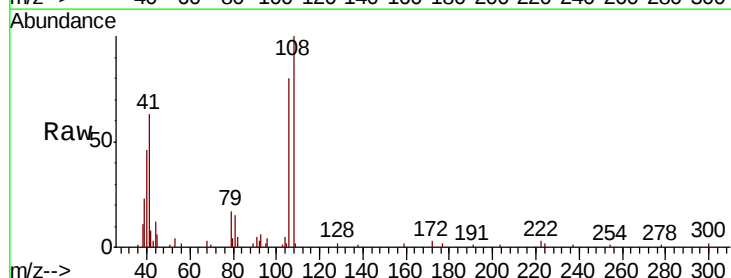
Instrument :
MSVOA_L
ClientSampleId :

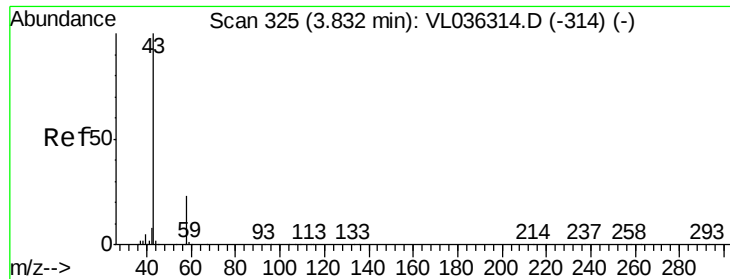
Tot Ion: 45 Resp: 5286
Ion Ratio Lower Upper
45 100
46 0.0 17.7 70.7#



#14
Bromoethene
Concen: 0.222 ppbv
RT: 3.75 min Scan# 299
Delta R.T. 0.03 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

Tgt Ion: 108 Resp: 14149
Ion Ratio Lower Upper
108 100
106 199.6 89.8 134.8#
79 41.0 17.1 25.7#





#15

Acetone

Concen: 0.471 ppbv

RT: 3.88 min Scan# 339

Delta R.T. 0.05 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

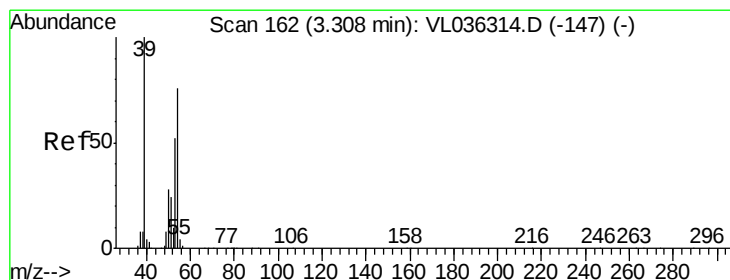
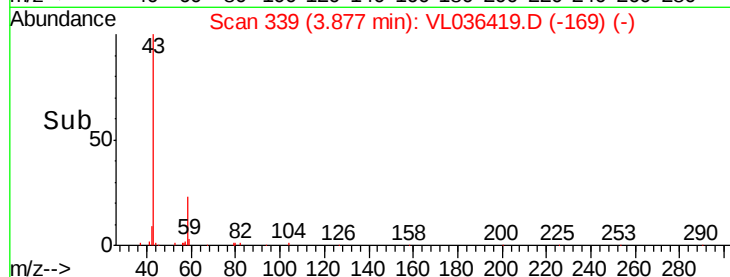
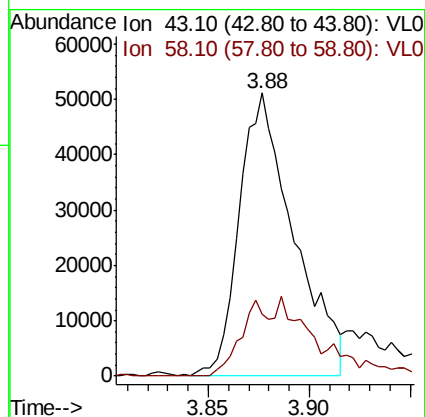
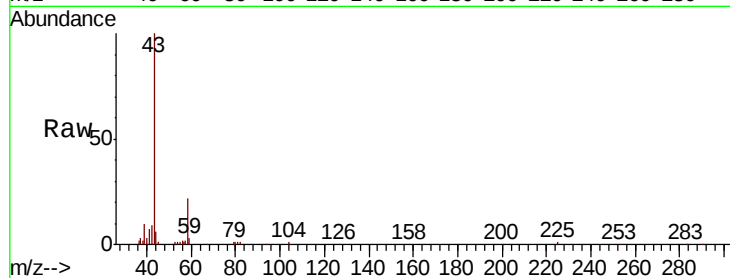
ClientSampleId :

Tot Ion: 43 Resp: 96718

Ion Ratio Lower Upper

43 100

58 36.1 20.3 30.5#



#16

1,3-Butadiene

Concen: 0.311 ppbv

RT: 3.34 min Scan# 171

Delta R.T. 0.03 min

Lab File: VL036419.D

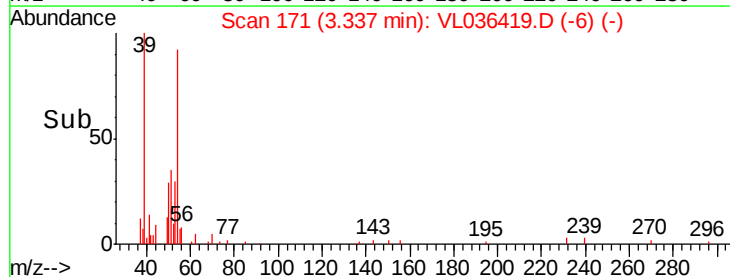
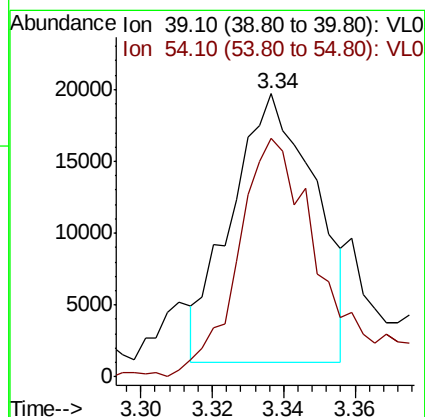
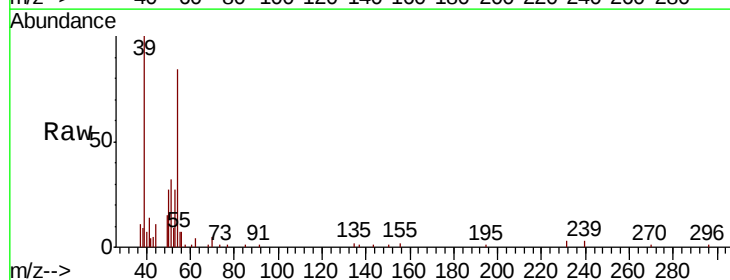
Acq: 1 Mar 2021 17:51

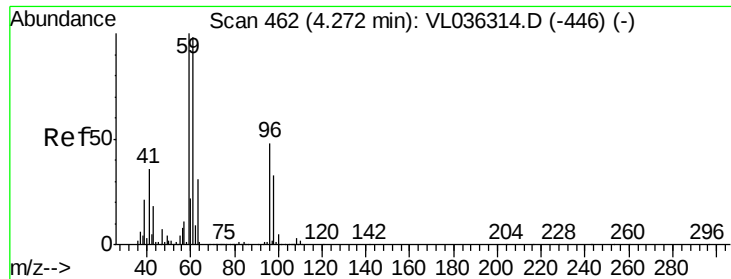
Tgt Ion: 39 Resp: 30507

Ion Ratio Lower Upper

39 100

54 97.3 64.4 96.6#



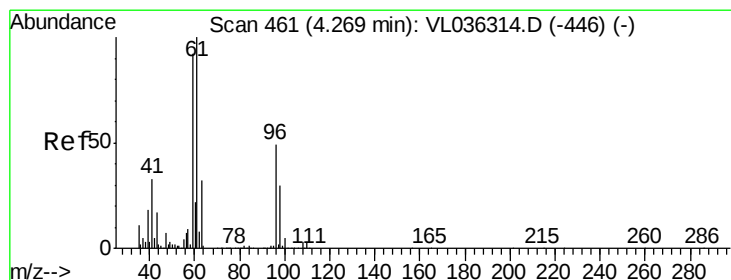
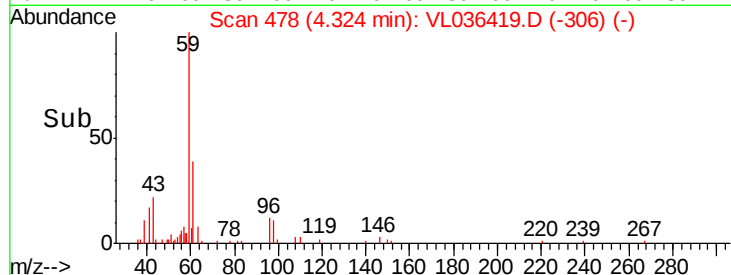
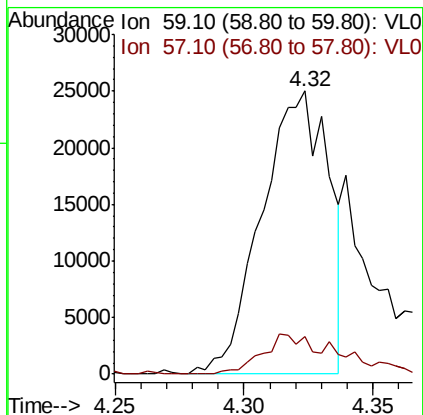
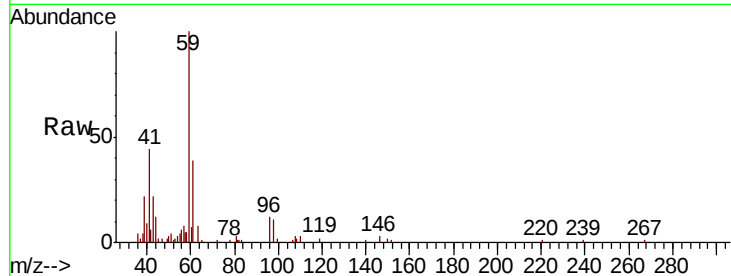


#17

tert-Butyl alcohol
 Concen: 0.284 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. 0.05 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Instrument :
 MSVOA_L
 ClientSampled :

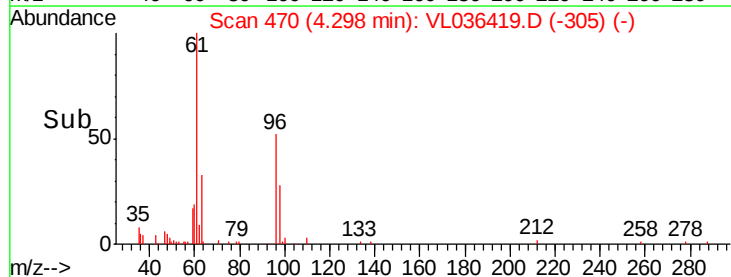
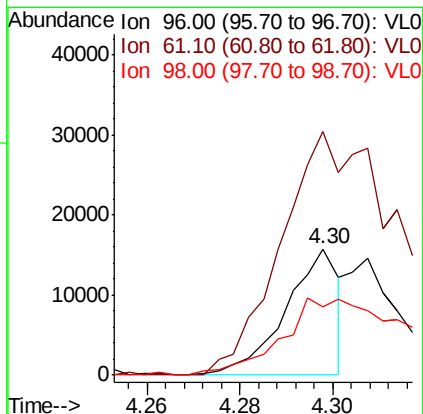
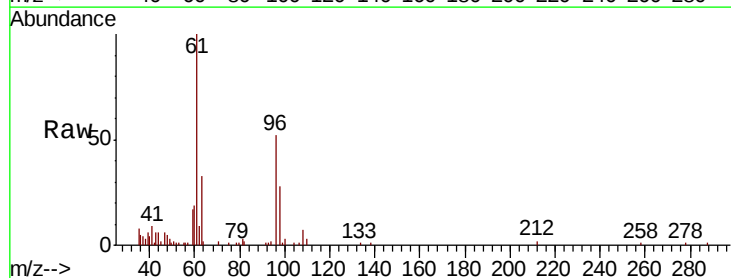
Tot Ion: 59 Resp: 45189
 Ion Ratio Lower Upper
 59 100
 57 16.1 9.0 13.4#

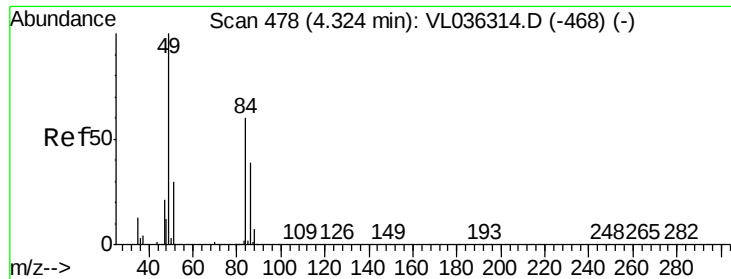


#18

1,1-Dichloroethene
 Concen: 0.182 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.03 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Tgt Ion: 96 Resp: 12592
 Ion Ratio Lower Upper
 96 100
 61 192.6 162.5 243.7
 98 53.9 48.5 72.7

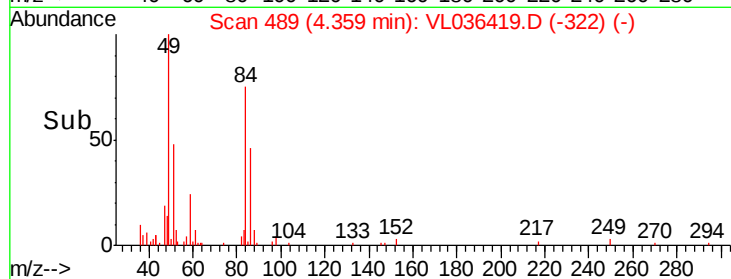
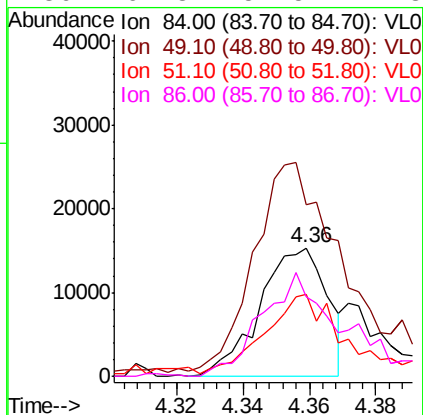
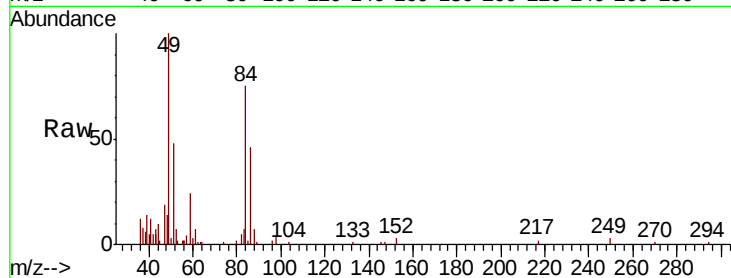




#20
Methylene Chloride
Concen: 0.329 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.04 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

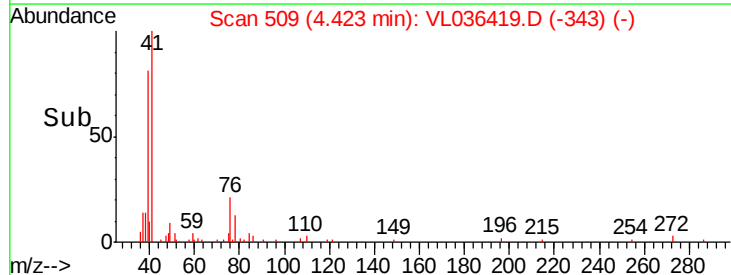
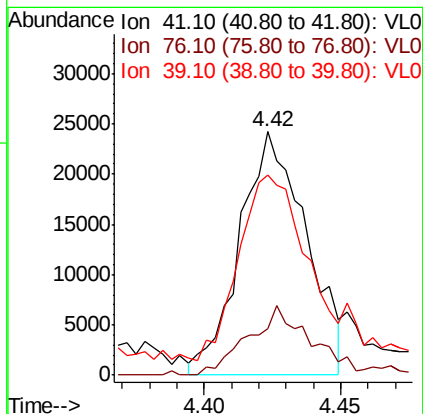
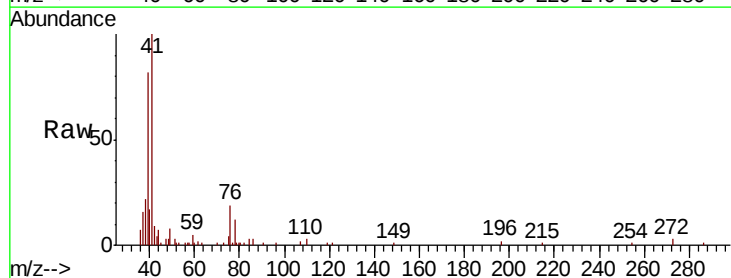
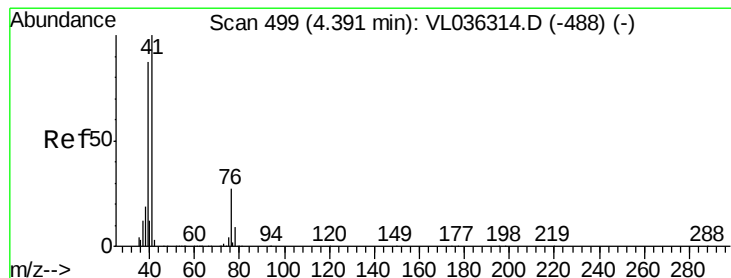
Instrument :
MSVOA_L
ClientSampleId :

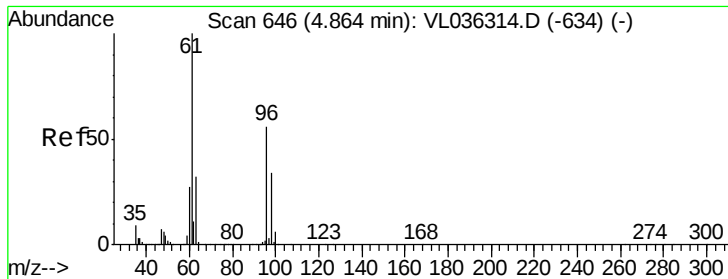
Tot Ion:	84	Resp:	21751
Ion	Ratio	Lower	Upper
84	100		
49	130.2	133.8	200.8#
51	57.3	41.4	62.0
86	61.8	51.5	77.3



#21
Allyl Chloride
Concen: 0.355 ppbv
RT: 4.42 min Scan# 509
Delta R.T. 0.03 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

Tgt Ion:	41	Resp:	40620
Ion	Ratio	Lower	Upper
41	100		
76	30.2	22.0	33.0
39	93.1	70.2	105.2





#22

trans-1,2-Dichloroethene

Concen: 0.360 ppbv

RT: 4.90 min Scan# 657

Delta R.T. 0.04 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

ClientSampleId :

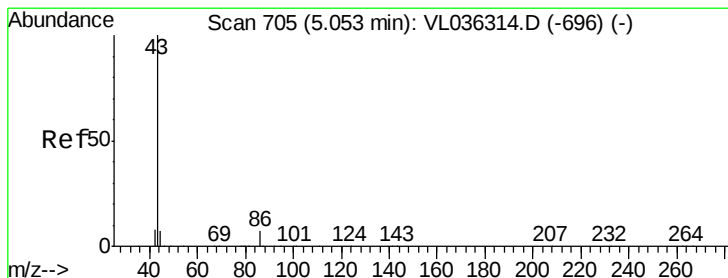
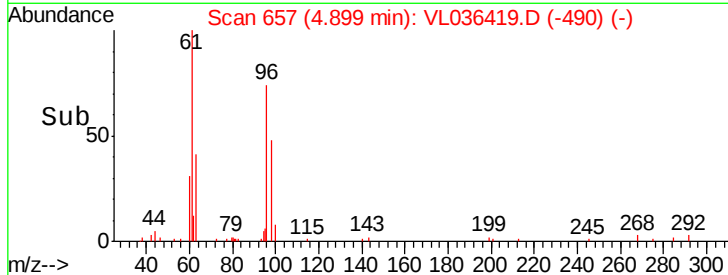
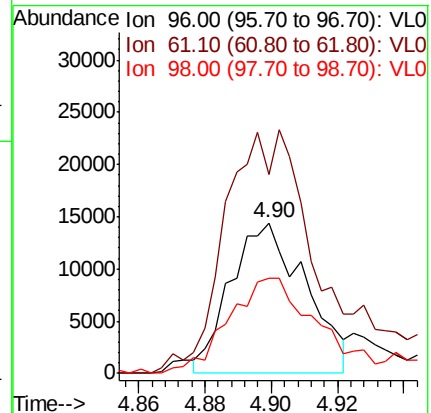
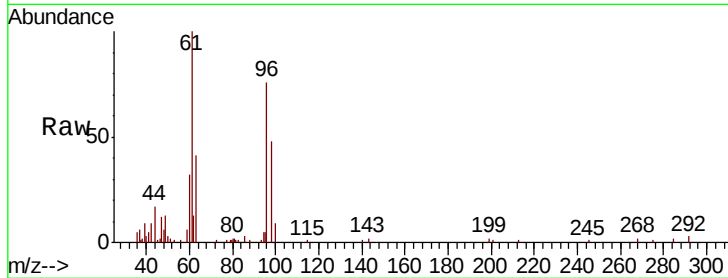
Tot Ion: 96 Resp: 22617

Ion Ratio Lower Upper

96 100

61 129.2 143.7 215.5#

98 57.6 48.5 72.7



#23

Vinyl Acetate

Concen: 0.114 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.03 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Tgt Ion: 43 Resp: 27493

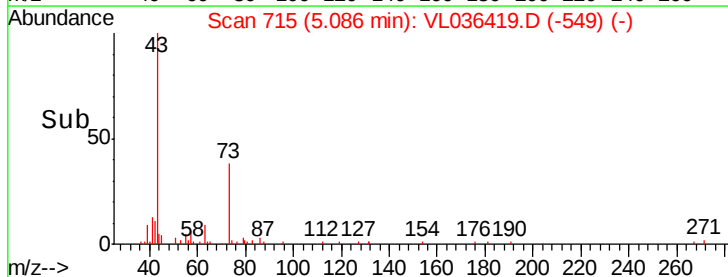
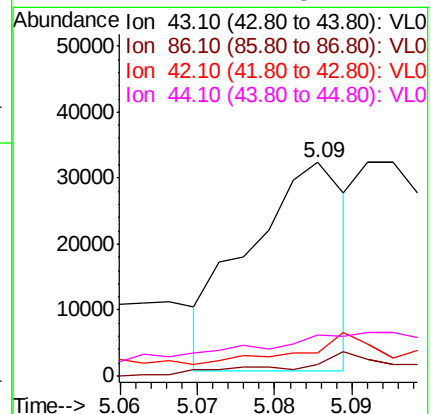
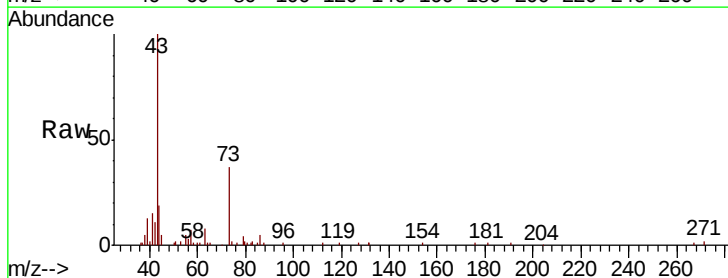
Ion Ratio Lower Upper

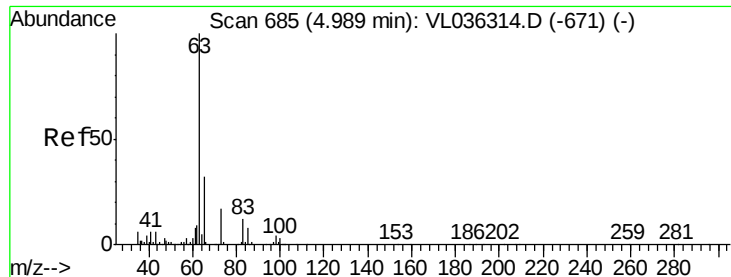
43 100

86 3.1 4.8 7.2#

42 8.3 7.4 11.0

44 11.7 4.8 7.2#





#24

1,1-Dichloroethane

Concen: 0.415 ppbv

RT: 5.03 min Scan# 697

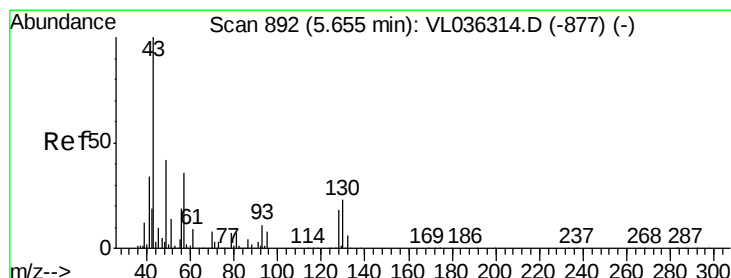
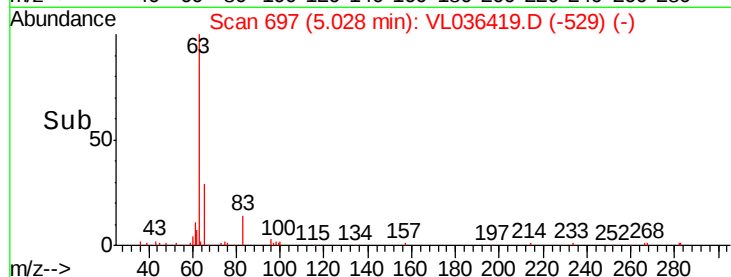
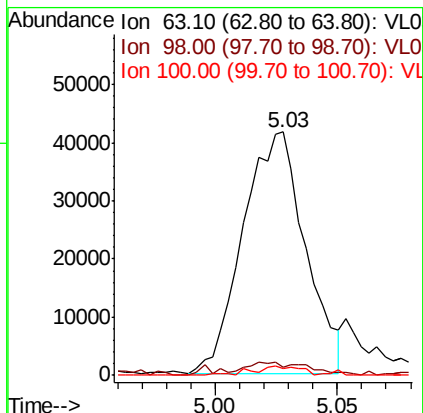
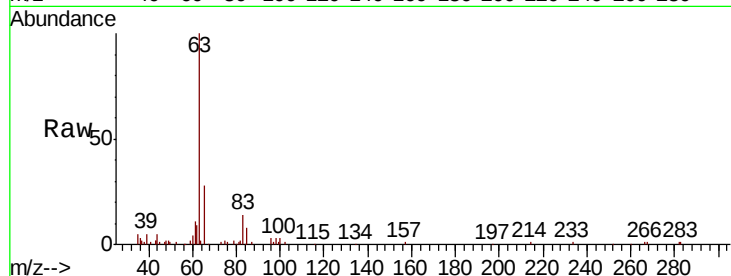
Delta R.T. 0.04 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	63	Resp:	74012
Ion	Ratio	Lower	Upper
63	100		
98	3.3	2.0	6.0
100	2.8	1.5	4.4



#25

Ethyl Acetate

Concen: 0.370 ppbv

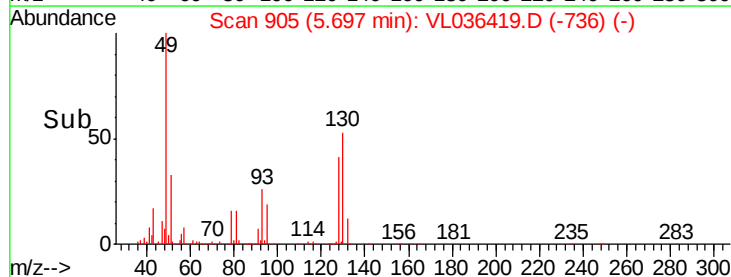
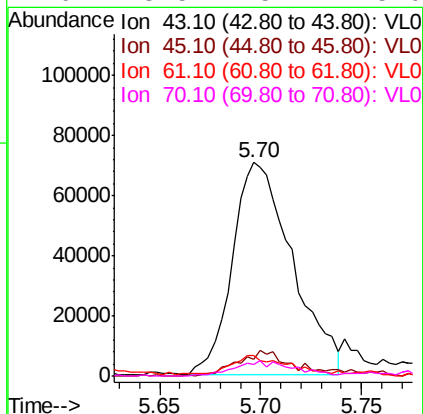
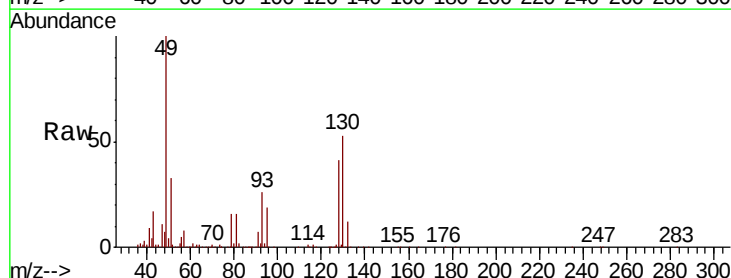
RT: 5.70 min Scan# 905

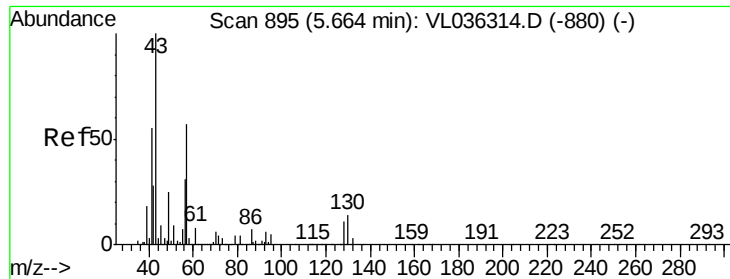
Delta R.T. 0.04 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Tgt Ion:	43	Resp:	146656
Ion	Ratio	Lower	Upper
43	100		
45	12.7	8.3	12.5#
61	10.0	7.3	10.9
70	8.5	5.4	8.0#





#26

Hexane

Concen: 0.203 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.03 min

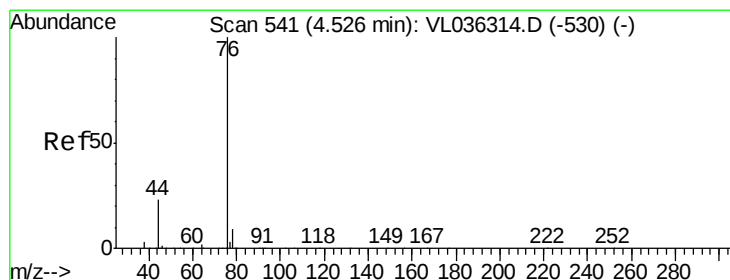
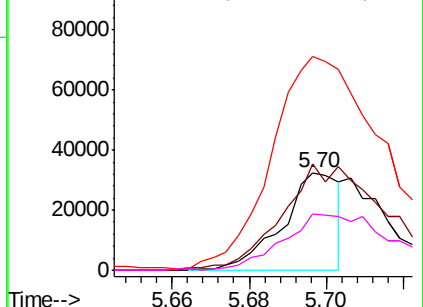
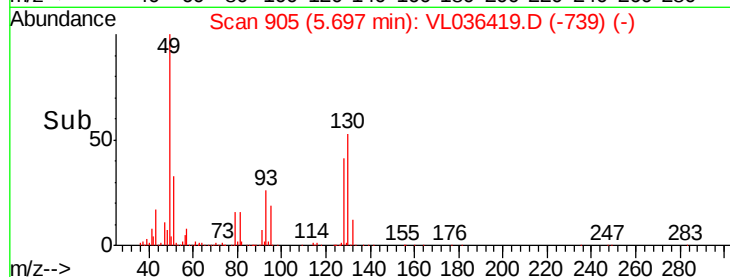
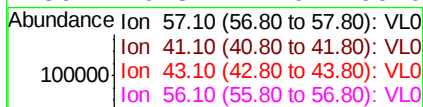
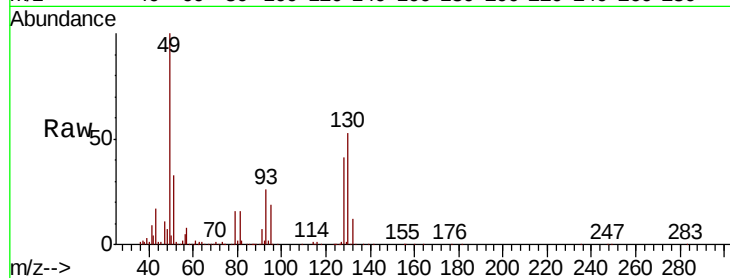
Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 33086

Ion	Ratio	Lower	Upper
57	100		
41	224.2	81.7	122.5#
43	503.3	199.1	298.7#
56	120.3	44.0	66.0#



#27

Carbon Disulfide

Concen: 0.184 ppbv

RT: 4.56 min Scan# 552

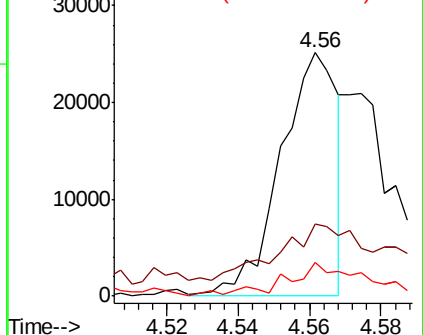
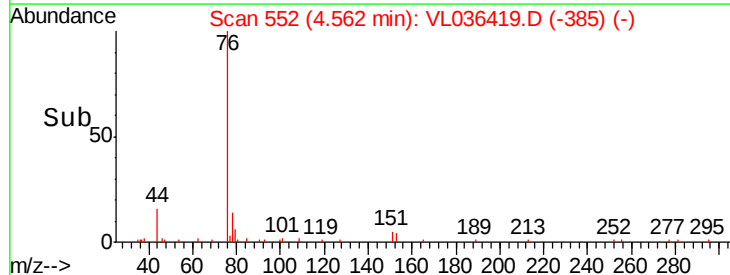
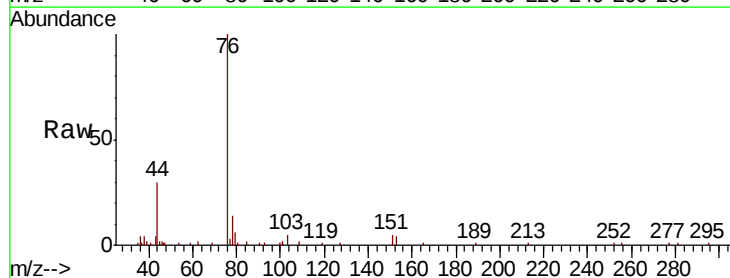
Delta R.T. 0.04 min

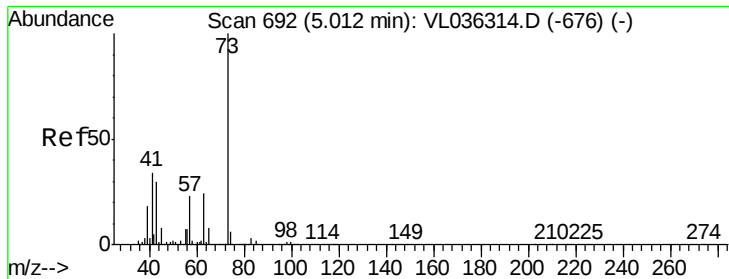
Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Tgt Ion: 76 Resp: 27571

Ion	Ratio	Lower	Upper
76	100		
44	62.2	18.4	27.6#
78	21.4	8.0	12.0#

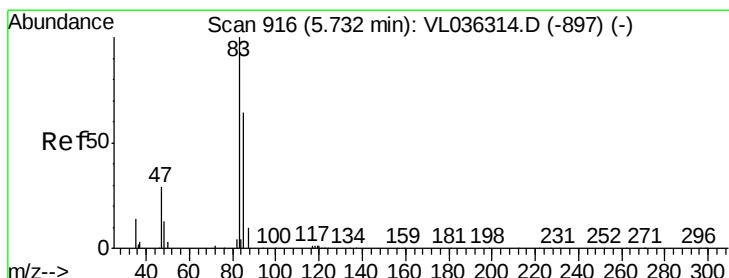
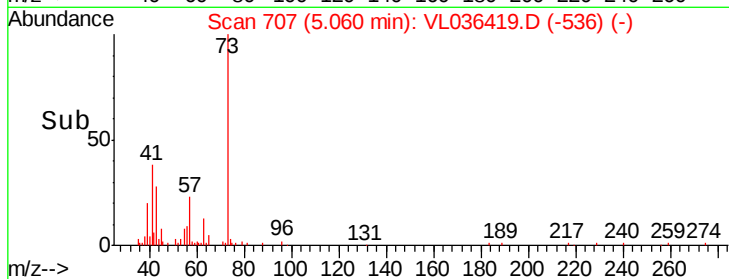
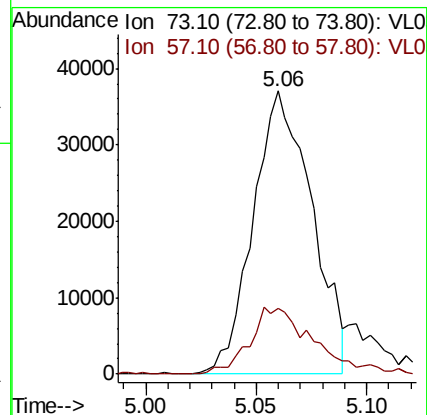
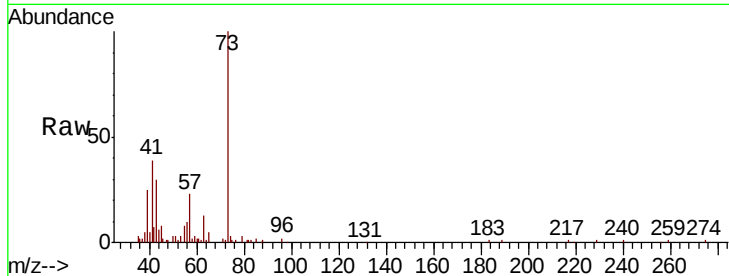




#28
Methvl tert-Butvl Ether
Concen: 0.322 ppbv
RT: 5.06 min Scan# 707
Delta R.T. 0.05 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

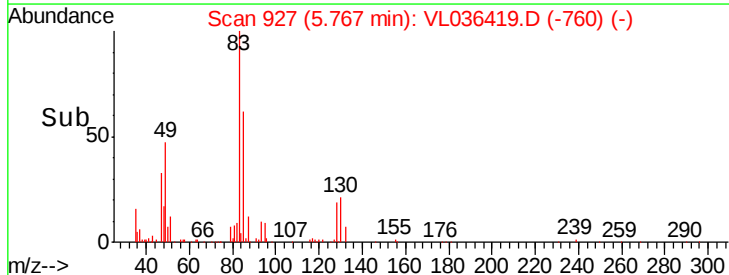
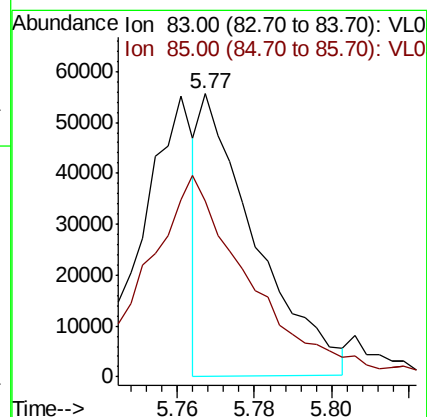
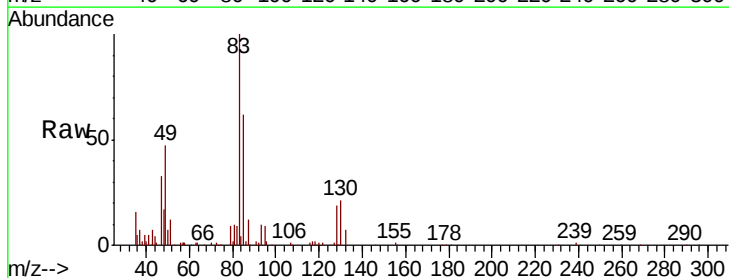
Instrument :
MSVOA_L
ClientSampleId :

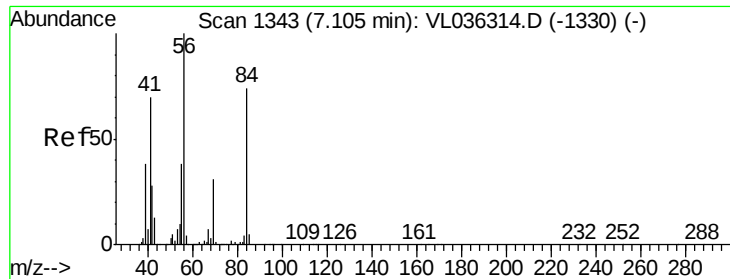
Tot Ion: 73 Resp: 68485
Ion Ratio Lower Upper
73 100
57 25.8 19.2 28.8



#29
Chloroform
Concen: 0.211 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.04 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

Tgt Ion: 83 Resp: 55439
Ion Ratio Lower Upper
83 100
85 61.5 51.4 77.2

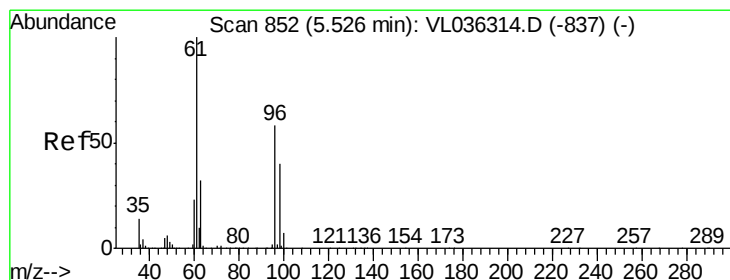
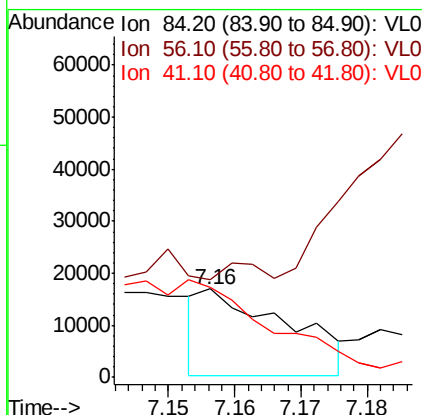
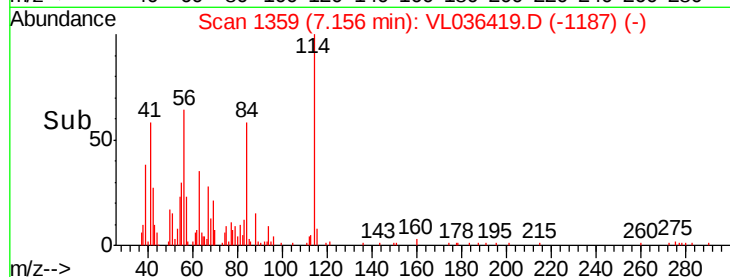
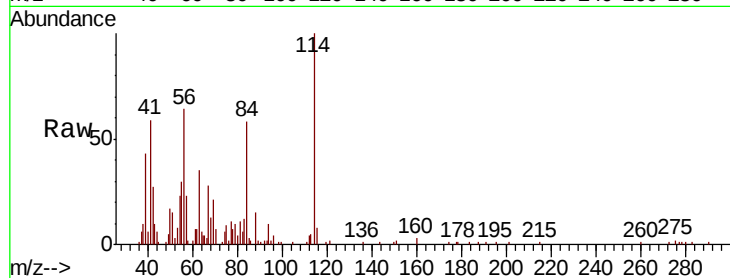




#30
Cvclohexane
Concen: 0.111 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. 0.05 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

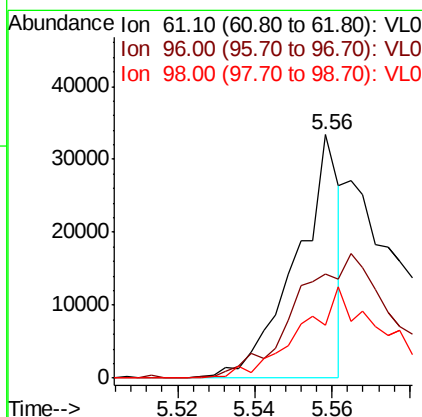
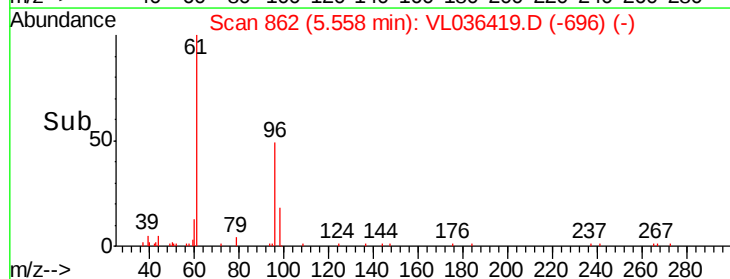
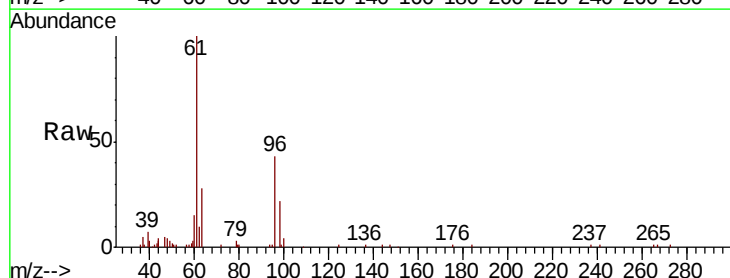
Instrument :
MSVOA_L
ClientSampleId :

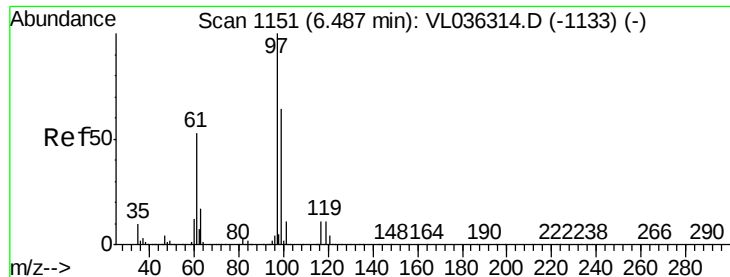
Tot Ion: 84 Resp: 15047
Ion Ratio Lower Upper
84 100
56 0.0 120.2 180.4#
41 320.8 79.7 119.5#



#31
cis-1,2-Dichloroethene
Concen: 0.160 ppbv
RT: 5.56 min Scan# 862
Delta R.T. 0.03 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

Tgt Ion: 61 Resp: 25833
Ion Ratio Lower Upper
61 100
96 42.9 46.0 69.0#
98 21.9 31.9 47.9#





#32

1,1,1-Trichloroethane

Concen: 0.401 ppbv

RT: 6.53 min Scan# 1163

Delta R.T. 0.04 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

ClientSampleId :

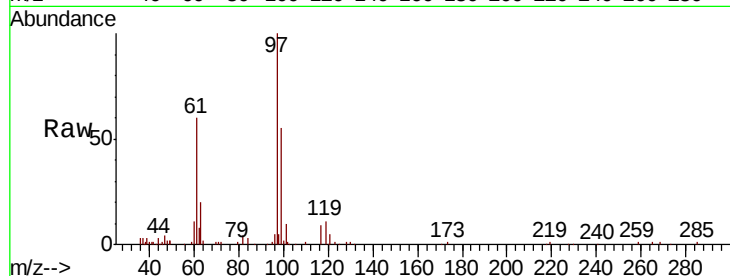
Tot Ion: 97 Resp: 98213

Ion Ratio Lower Upper

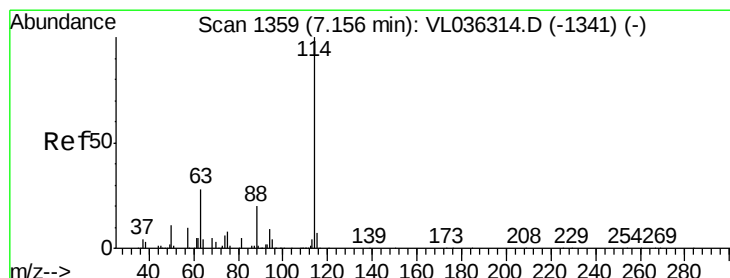
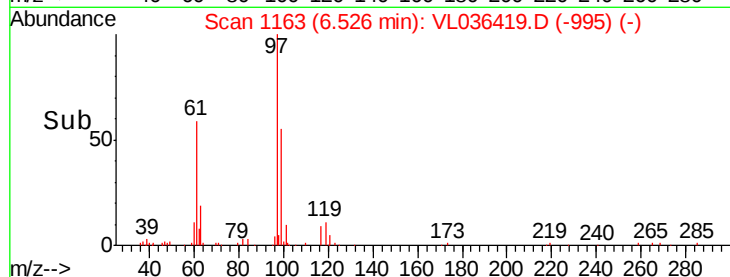
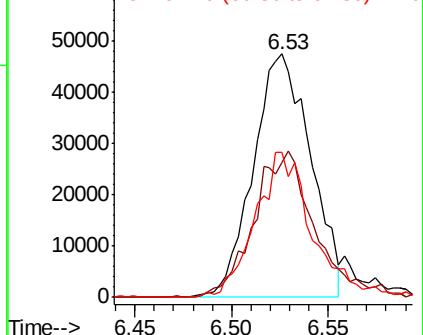
97 100

99 64.2 52.2 78.4

61 59.2 43.3 64.9



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. 0.04 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

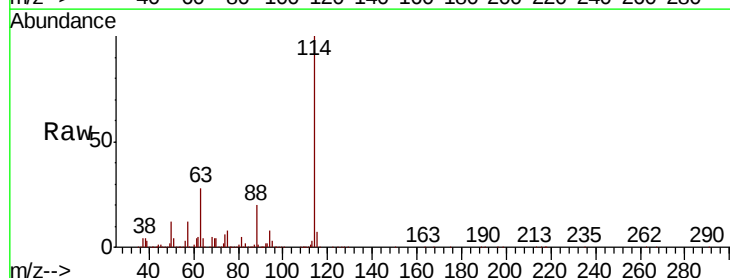
Tgt Ion: 114 Resp: 3753862

Ion Ratio Lower Upper

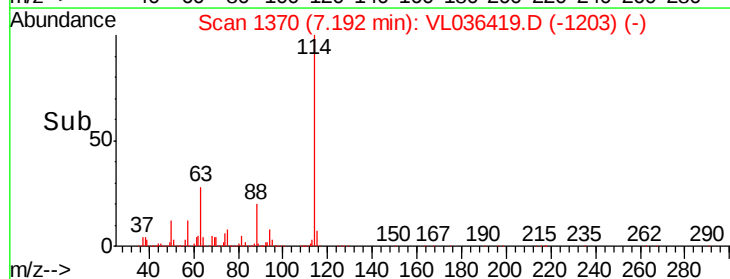
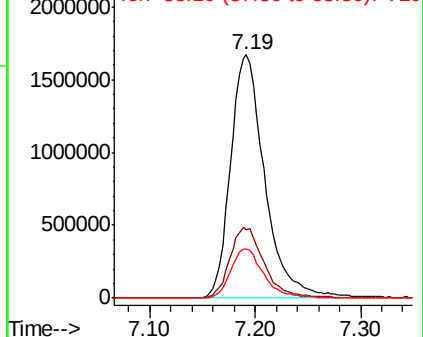
114 100

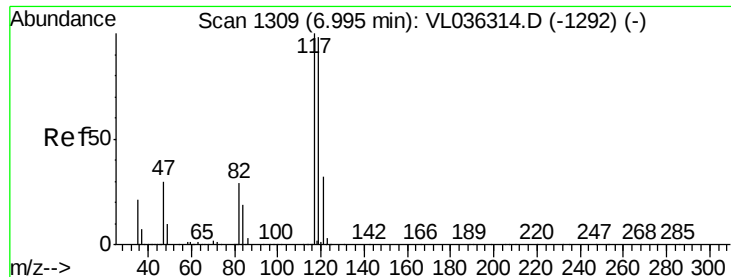
63 29.5 24.1 36.1

88 19.7 16.0 24.0



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

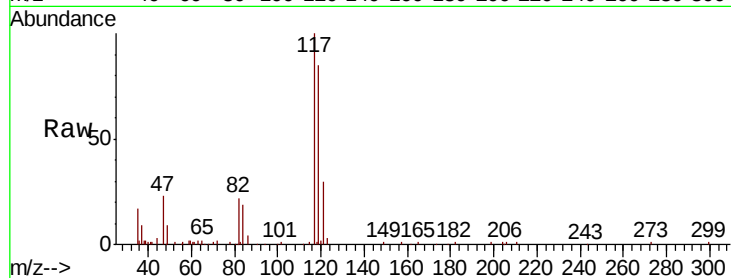




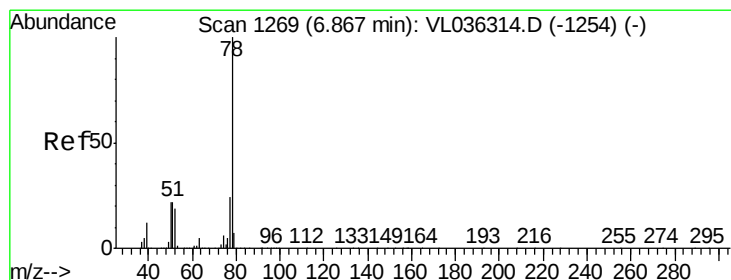
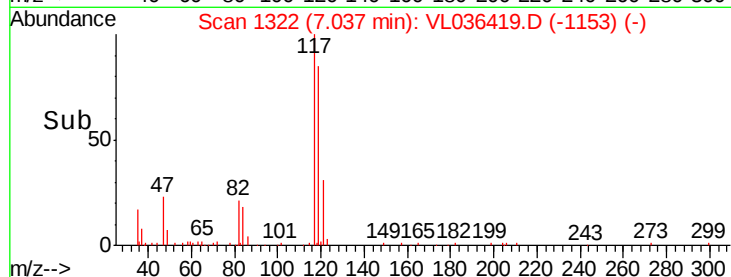
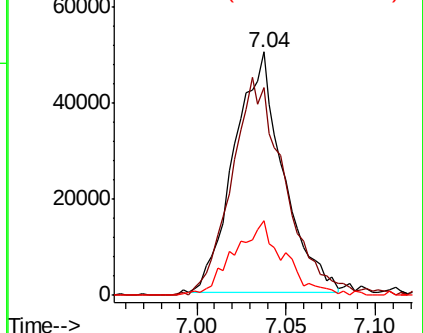
#35
Carbon Tetrachloride
Concen: 0.384 ppbv
RT: 7.04 min Scan# 1322
Delta R.T. 0.04 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 96560
Ion Ratio Lower Upper
117 100
119 85.9 78.1 117.1
121 30.2 25.8 38.8

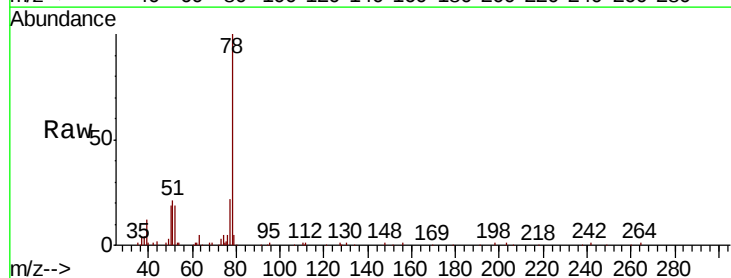


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

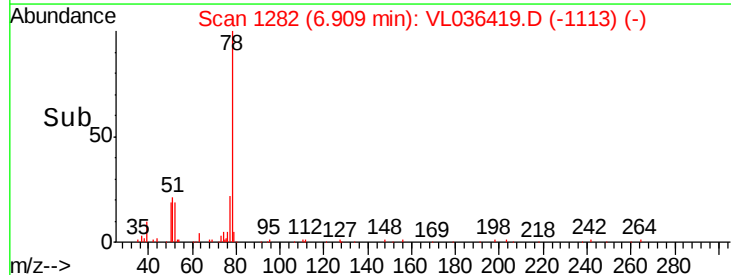
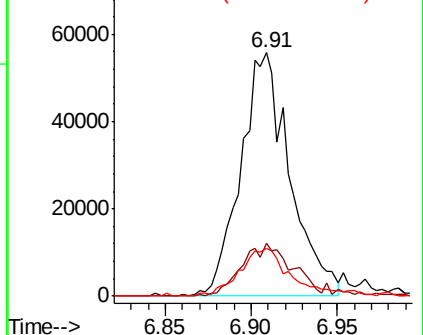


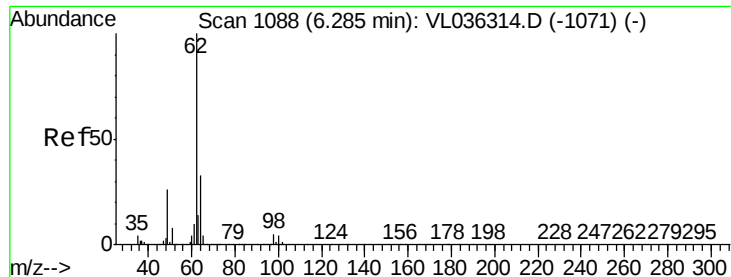
#36
Benzene
Concen: 0.344 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. 0.04 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

Tgt Ion: 78 Resp: 109657
Ion Ratio Lower Upper
78 100
77 21.7 18.9 28.3
50 19.5 17.3 25.9



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

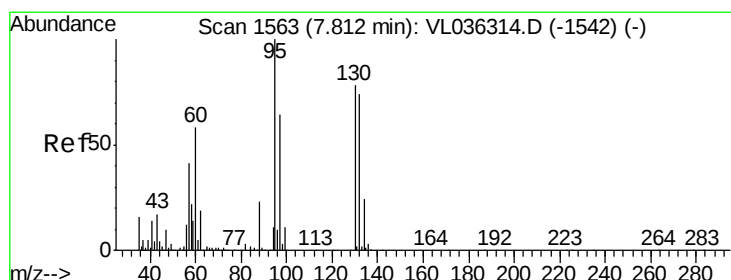
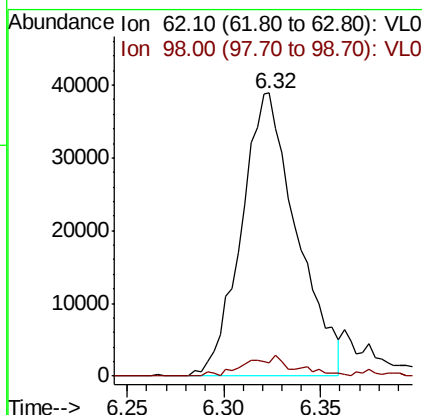
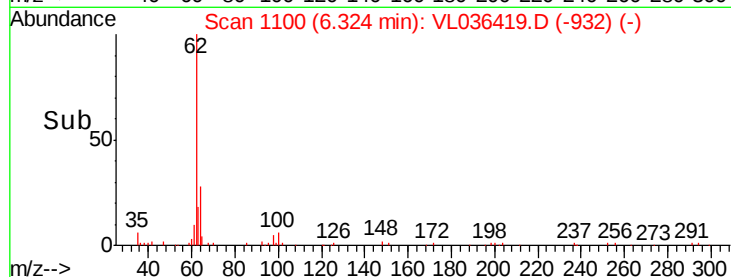
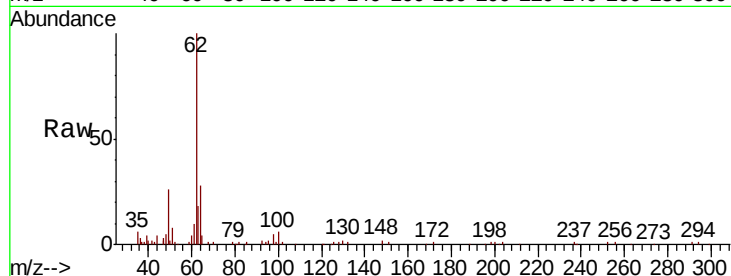




#37
 1,2-Dichloroethane
 Concen: 0.394 ppbv
 RT: 6.32 min Scan# 1100
 Delta R.T. 0.04 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

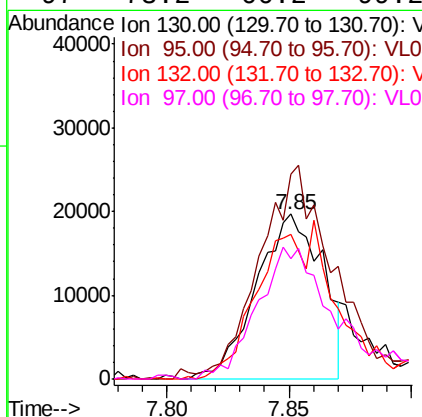
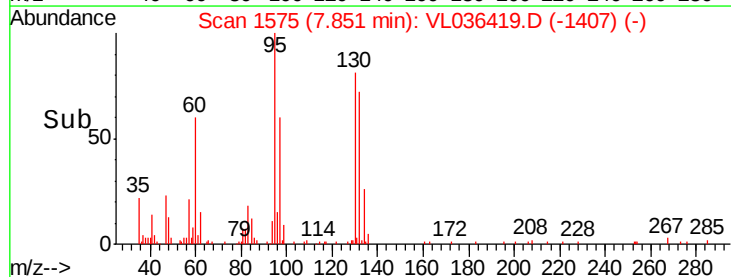
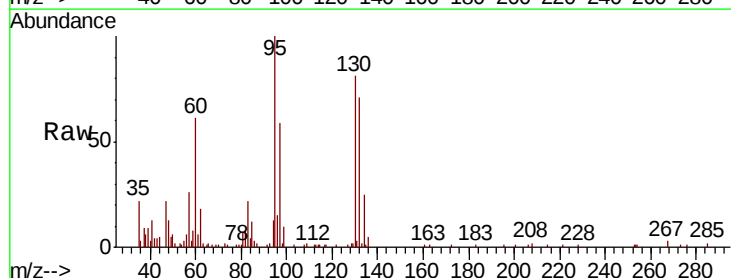
Instrument :
 MSVOA_L
 ClientSampleId :

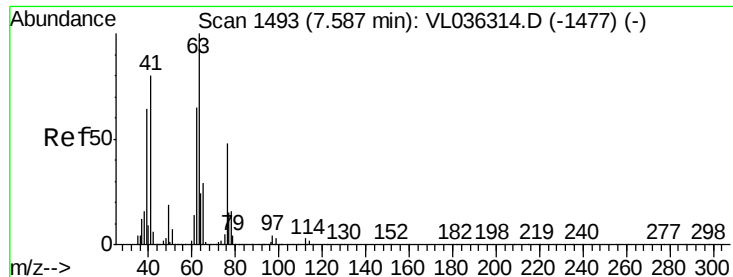
Tot Ion: 62 Resp: 77759
 Ion Ratio Lower Upper
 62 100
 98 6.4 4.5 6.7



#38
 Trichloroethene
 Concen: 0.325 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.04 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Tgt Ion:130 Resp: 37140
 Ion Ratio Lower Upper
 130 100
 95 120.1 102.8 154.2
 132 86.8 75.7 113.5
 97 73.2 66.2 99.2

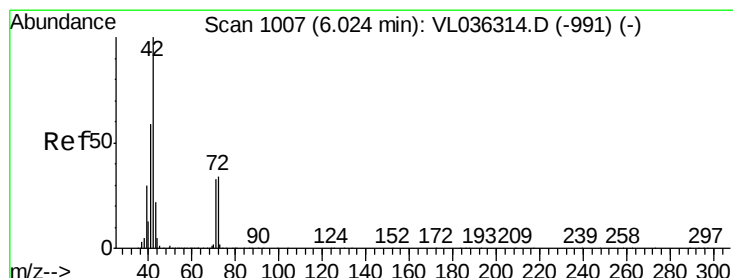
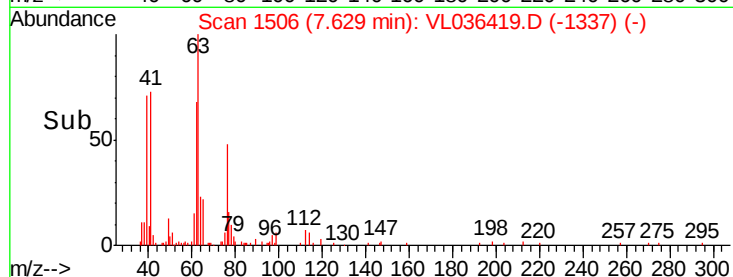
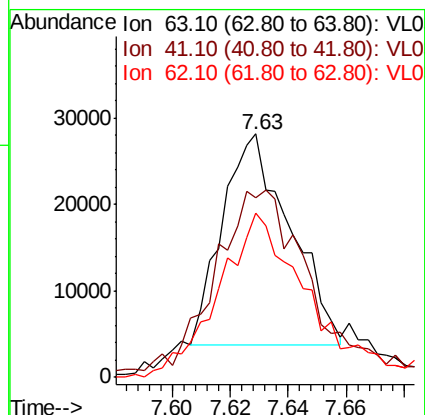
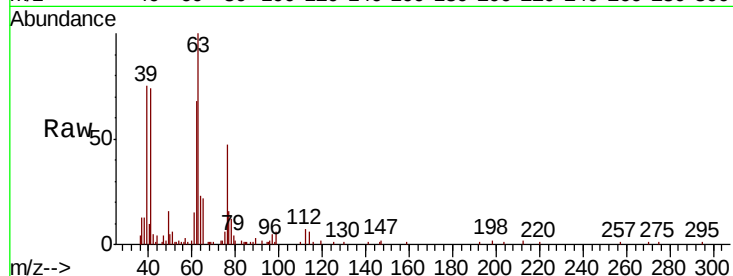




#39
 1,2-Dichloropropane
 Concen: 0.303 ppbv
 RT: 7.63 min Scan# 1506
 Delta R.T. 0.04 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

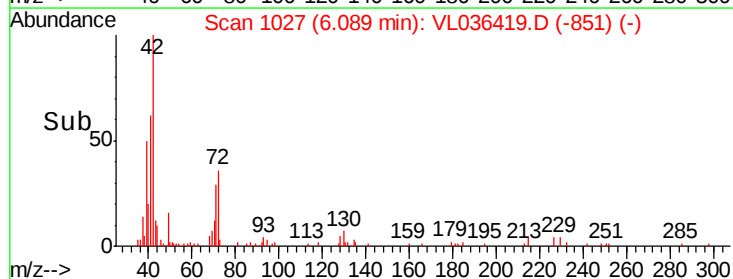
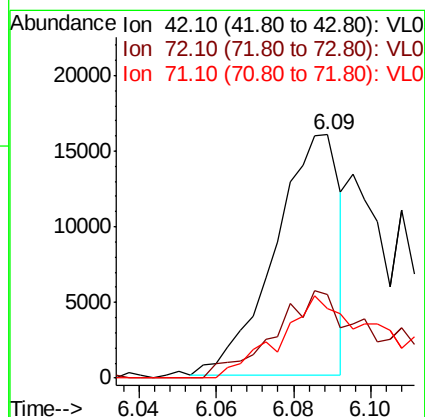
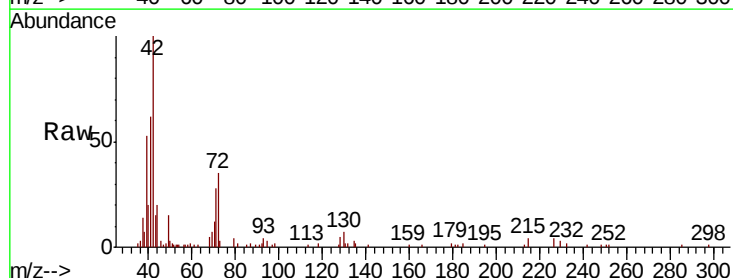
Instrument :
 MSVOA_L
 ClientSampleId :

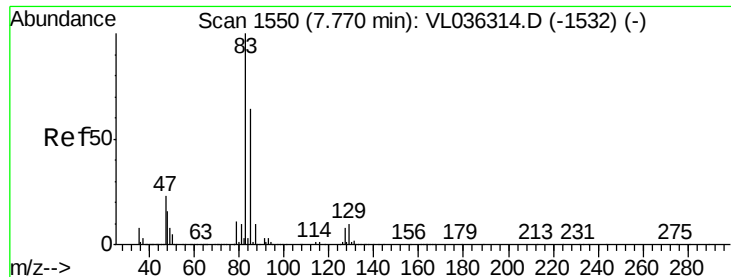
Tot Ion: 63 Resp: 39299
 Ion Ratio Lower Upper
 63 100
 41 63.7 63.8 95.6#
 62 64.7 52.3 78.5



#41
 Tetrahydrofuran
 Concen: 0.133 ppbv
 RT: 6.09 min Scan# 1027
 Delta R.T. 0.06 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Tgt Ion: 42 Resp: 18501
 Ion Ratio Lower Upper
 42 100
 72 81.3 29.3 43.9#
 71 76.0 27.8 41.8#





#42

Bromodichloromethane

Concen: 0.380 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.04 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

ClientSampleId :

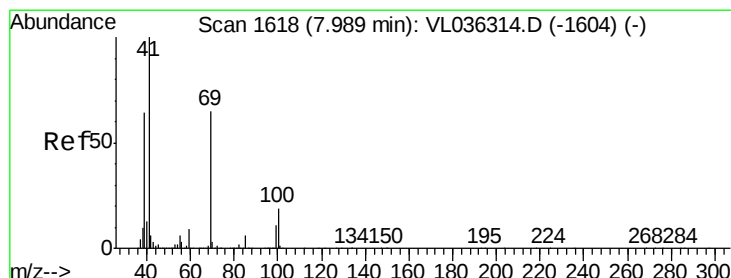
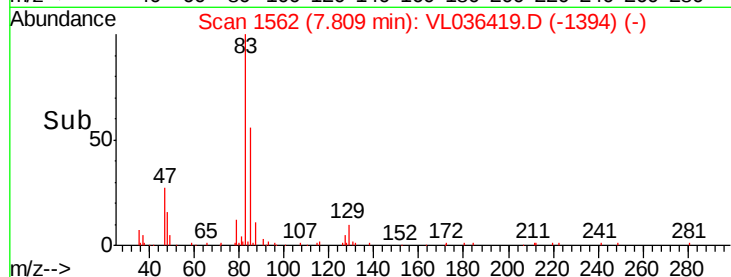
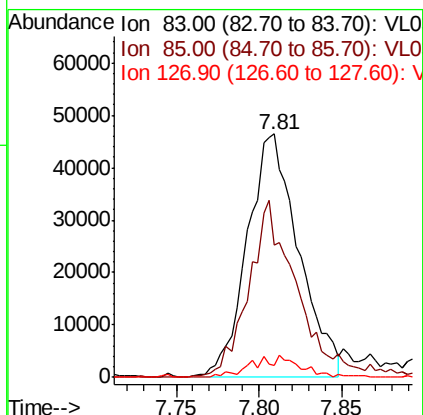
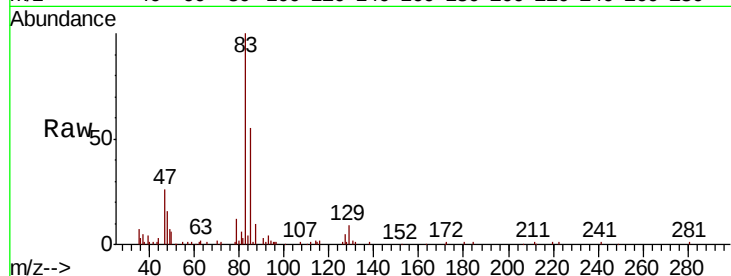
Tot Ion: 83 Resp: 100274

Ion Ratio Lower Upper

83 100

85 54.6 51.1 76.7

127 4.7 6.3 9.5#



#43

Methyl Methacrylate

Concen: 0.243 ppbv

RT: 8.03 min Scan# 1632

Delta R.T. 0.05 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

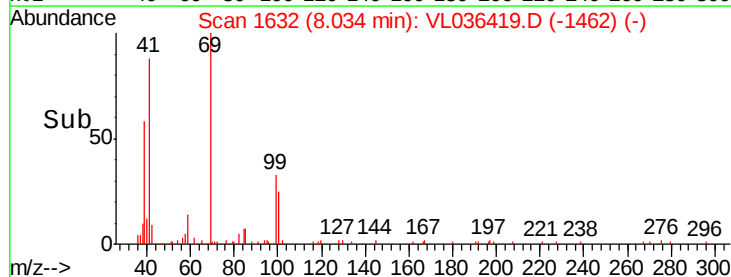
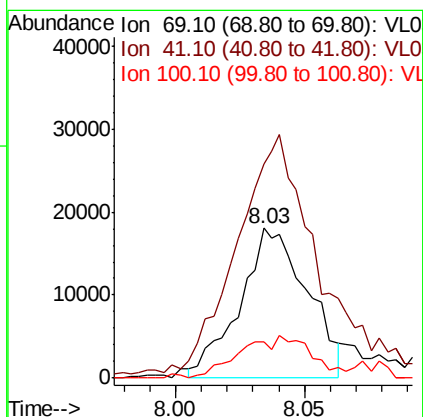
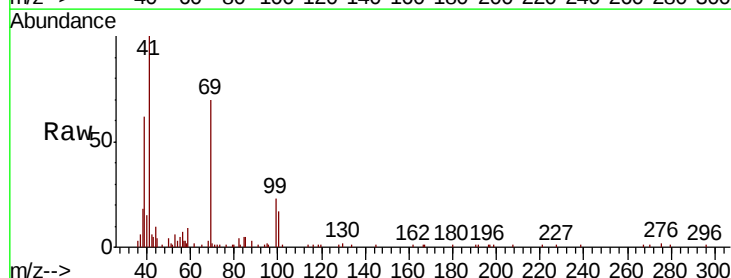
Tgt Ion: 69 Resp: 32727

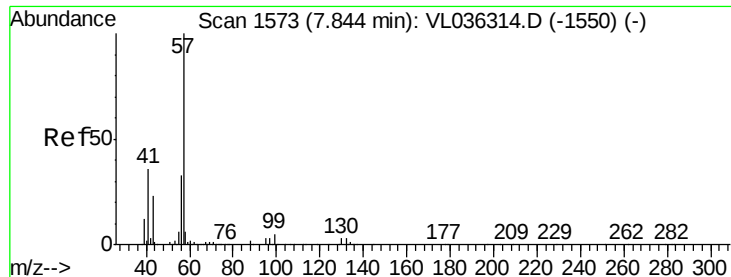
Ion Ratio Lower Upper

69 100

41 191.8 126.5 189.7#

100 35.4 23.1 34.7#

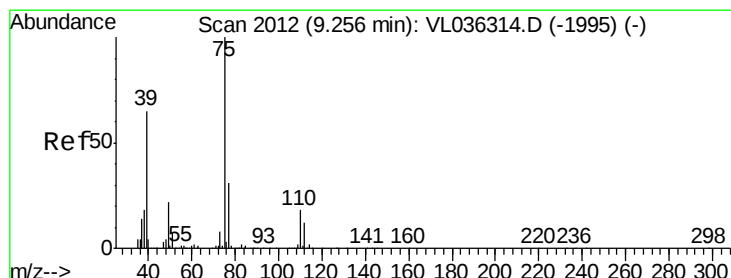
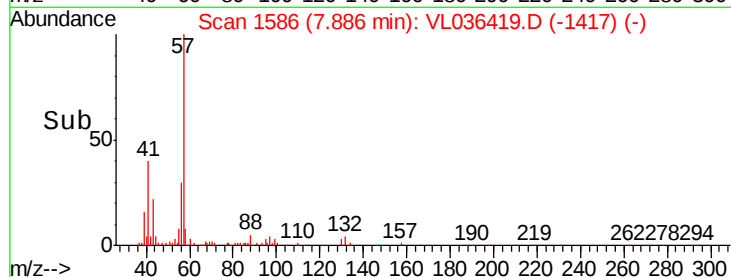
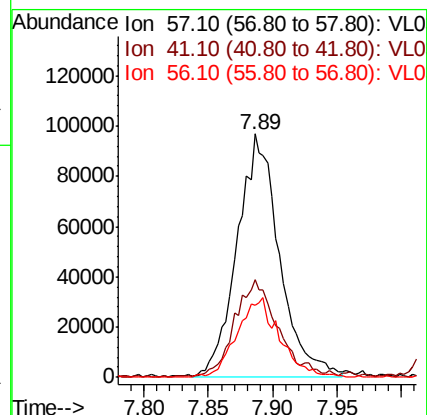
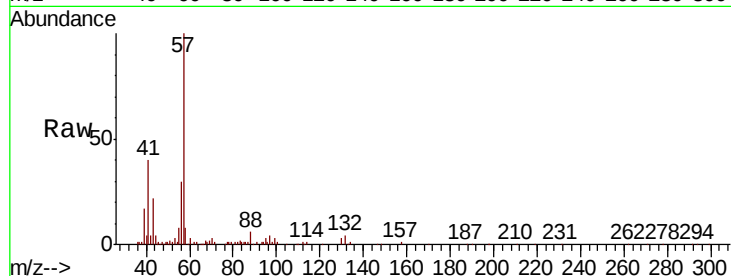




#44
 2,2,4-Trimethylpentane
 Concen: 0.379 ppbv
 RT: 7.89 min Scan# 1586
 Delta R.T. 0.04 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

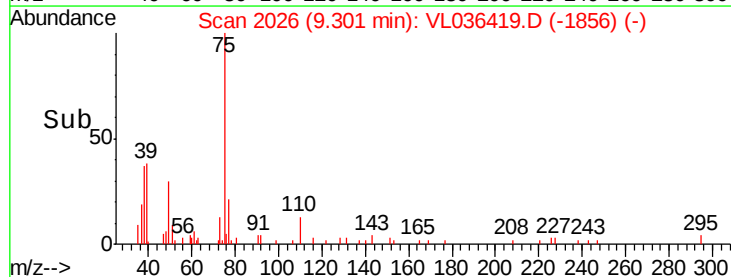
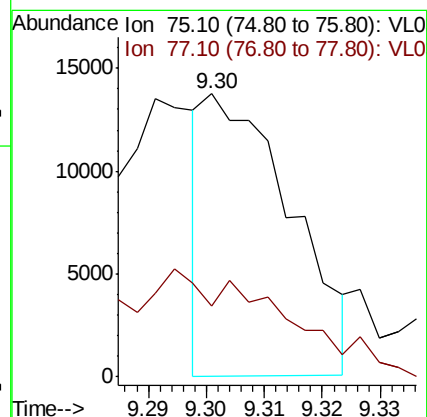
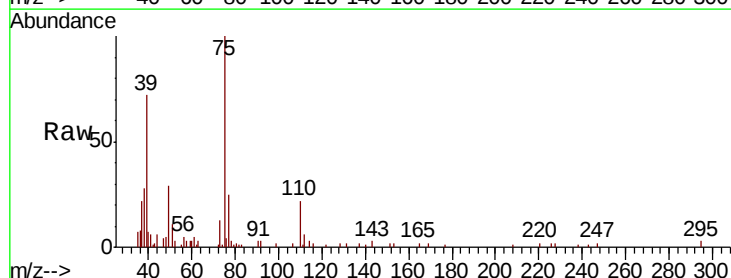
Instrument :
 MSVOA_L
 ClientSampleId :

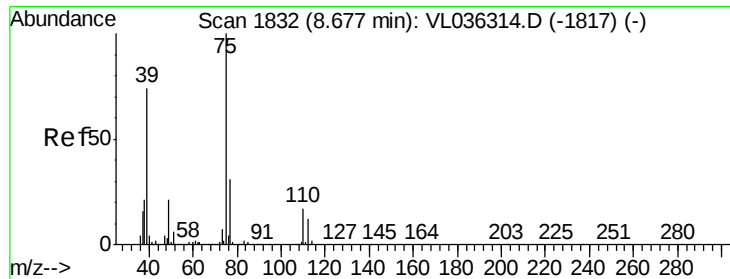
Tot Ion	57	Resp	219636
Ion	Ratio	Lower	Upper
57	100		
41	41.3	28.8	43.2
56	33.1	25.8	38.6



#45
 t-1,3-Dichloropropene
 Concen: 0.110 ppbv
 RT: 9.30 min Scan# 2026
 Delta R.T. 0.05 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Tgt Ion	75	Resp	14243
Ion	Ratio	Lower	Upper
75	100		
77	25.3	24.6	37.0



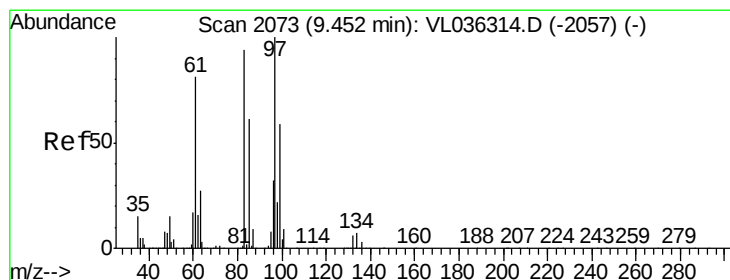
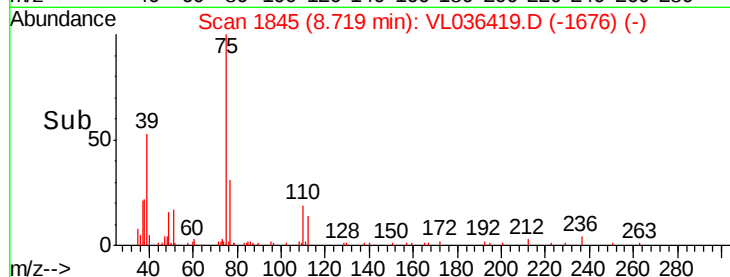
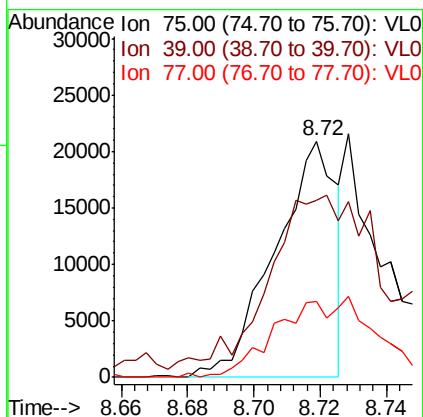
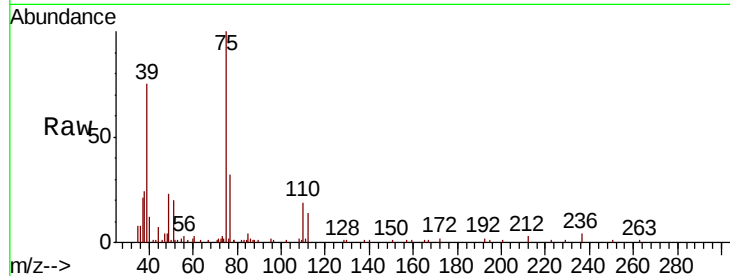


#46

cis-1,3-Dichloropropene
 Concen: 0.163 ppbv
 RT: 8.72 min Scan# 1845
 Delta R.T. 0.04 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Instrument :
 MSVOA_L
 ClientSampleId :

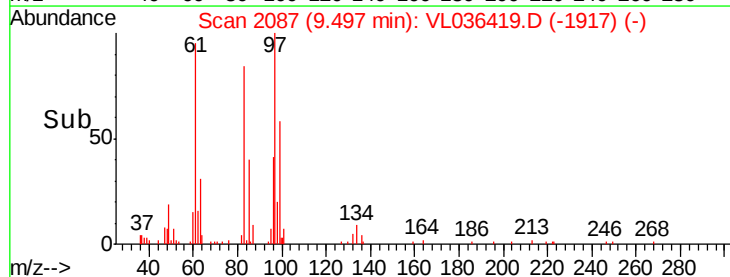
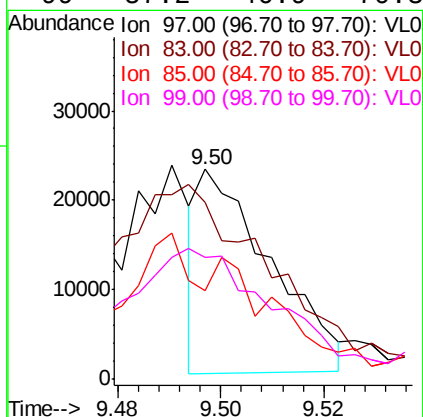
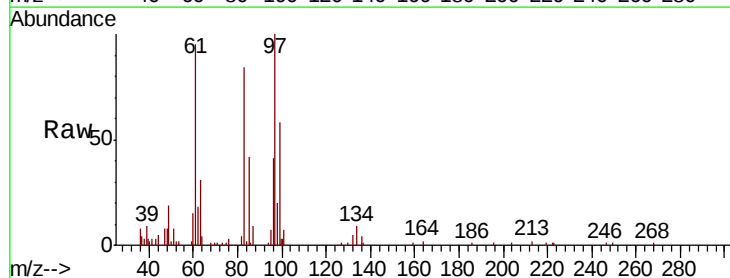
Tot Ion	Ratio	Lower	Upper
75	100		
39	66.5	59.2	88.8
77	30.2	25.0	37.6

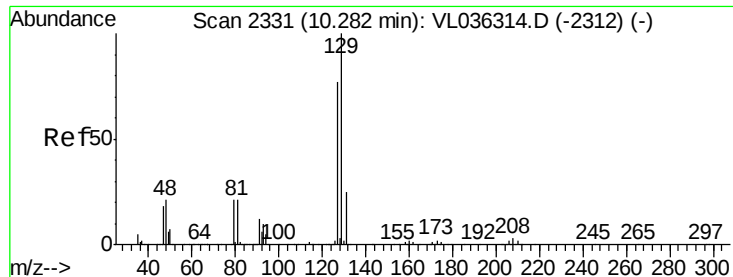


#47

1,1,2-Trichloroethane
 Concen: 0.166 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. 0.05 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Tgt Ion	Ratio	Lower	Upper
97	100		
83	72.0	75.4	113.0#
85	35.3	48.9	73.3#
99	57.2	46.9	70.3





#48

Dibromochloromethane

Concen: 0.205 ppbv

RT: 10.32 min Scan# 2344

Delta R.T. 0.04 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

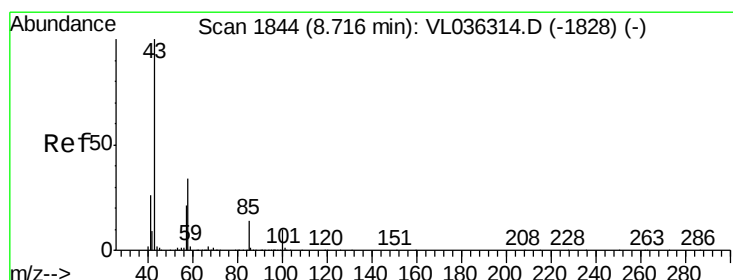
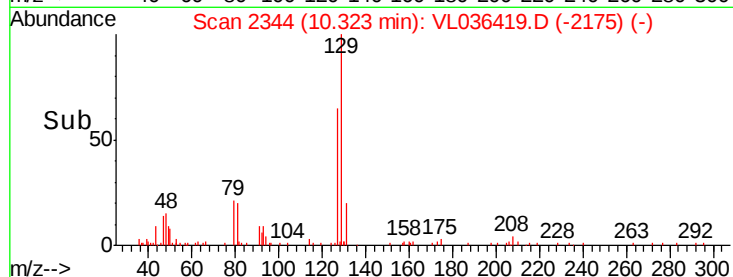
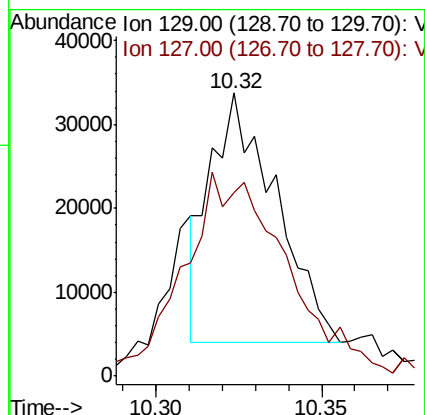
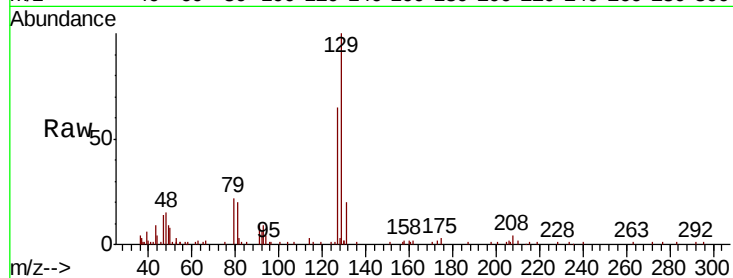
ClientSampleId :

Tot Ion:129 Resp: 40543

Ion Ratio Lower Upper

129 100

127 131.8 39.1 117.2#



#50

4-Methyl-2-Pentanone

Concen: 0.161 ppbv

RT: 8.78 min Scan# 1864

Delta R.T. 0.06 min

Lab File: VL036419.D

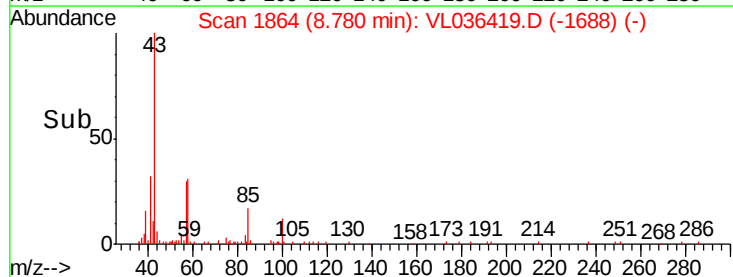
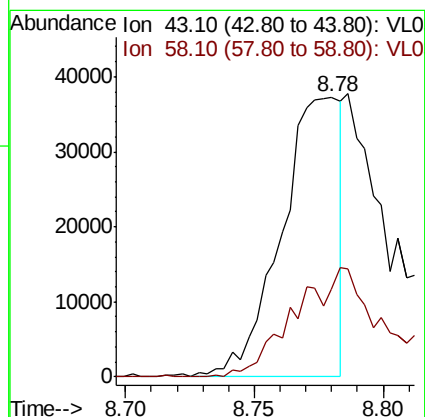
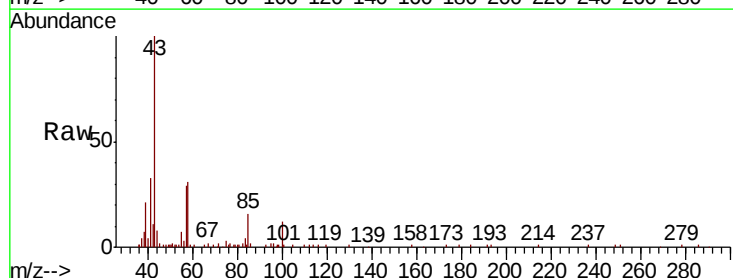
Acq: 1 Mar 2021 17:51

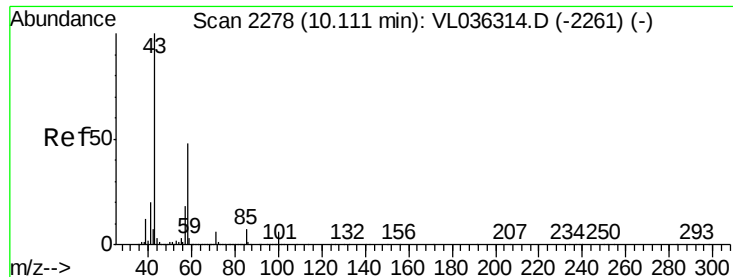
Tgt Ion: 43 Resp: 59756

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#





#51

2-Hexanone

Concen: 0.092 ppbv

RT: 10.17 min Scan# 2297

Delta R.T. 0.06 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

ClientSampleId :

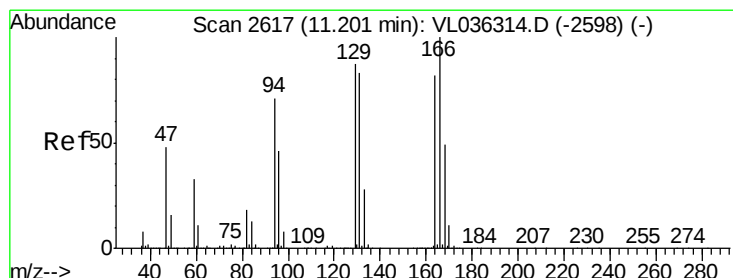
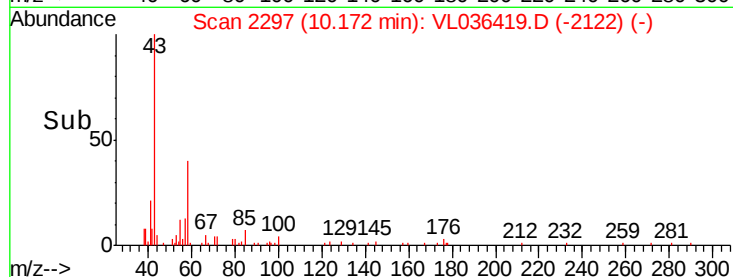
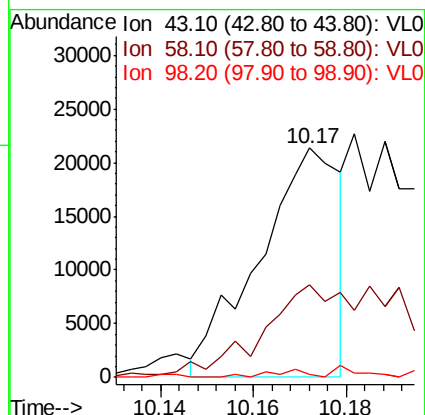
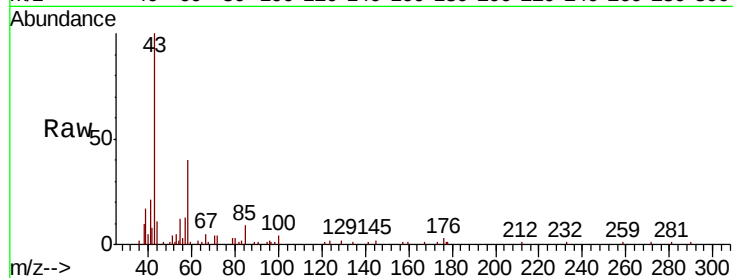
Tot Ion: 43 Resp: 25895

Ion Ratio Lower Upper

43 100

58 112.9 38.7 58.1#

98 0.0 0.4 0.6#



#52

Tetrachloroethene

Concen: 0.144 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. 0.04 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Tgt Ion: 164 Resp: 16827

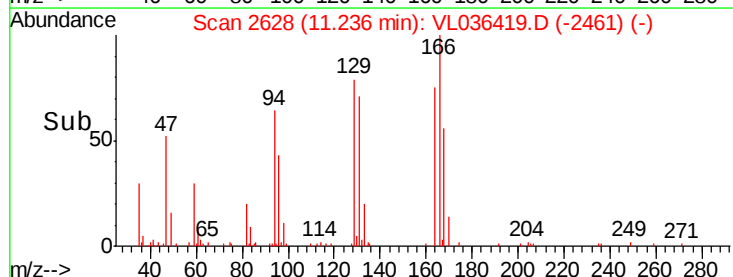
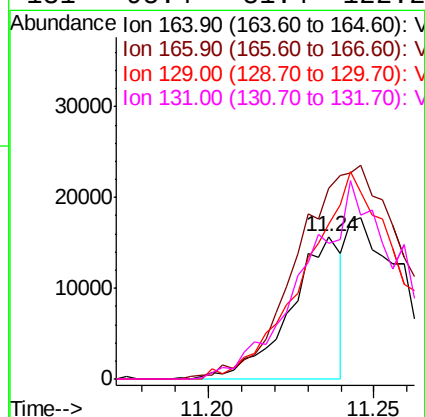
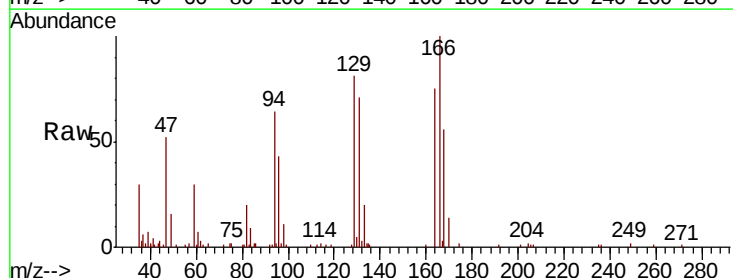
Ion Ratio Lower Upper

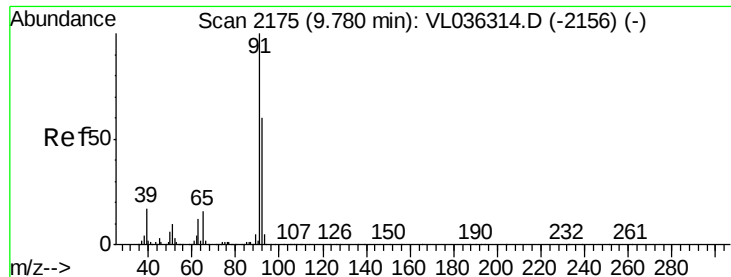
164 100

166 132.7 97.8 146.8

129 108.5 84.9 127.3

131 95.4 81.4 122.2





#53

Toluene

Concen: 0.168 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.05 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

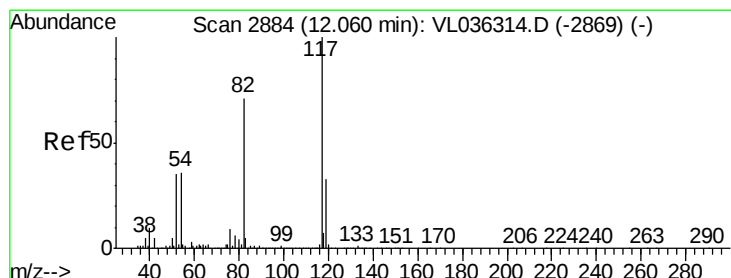
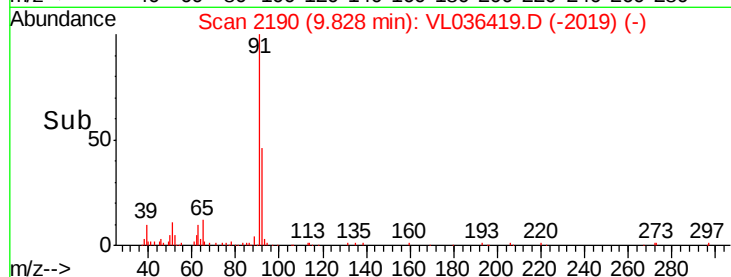
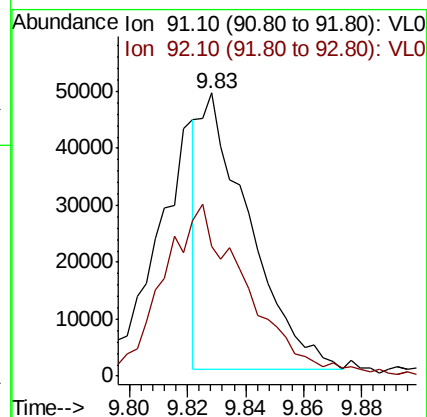
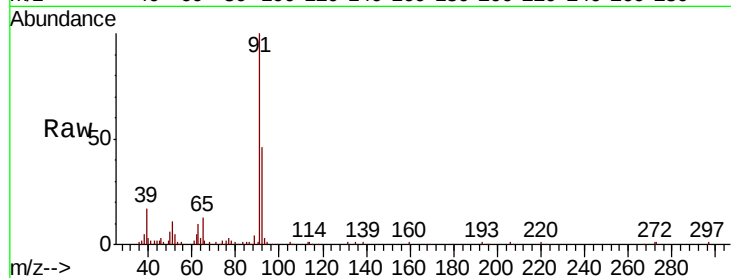
ClientSampleId :

Tot Ion: 91 Resp: 57897

Ion Ratio Lower Upper

91 100

92 107.3 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: VL036419.D

Acq: 1 Mar 2021 17:51

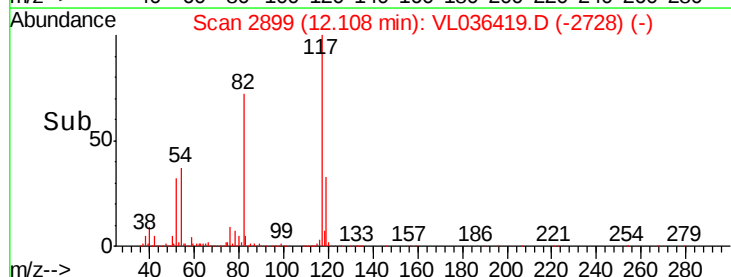
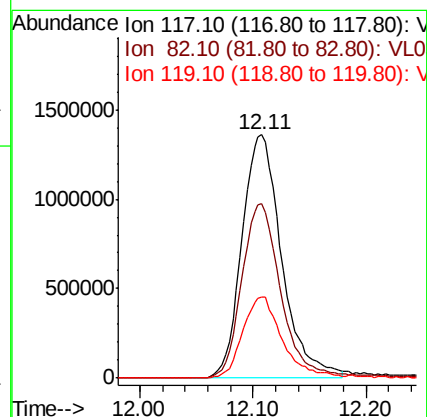
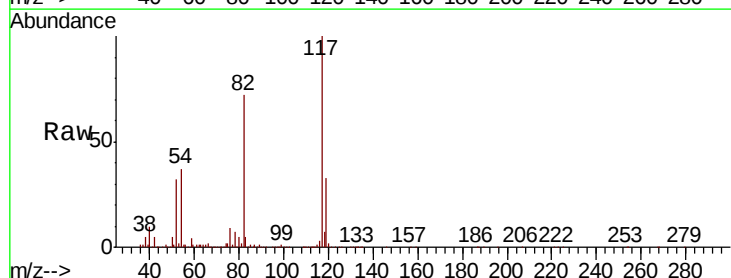
Tgt Ion: 117 Resp: 3327129

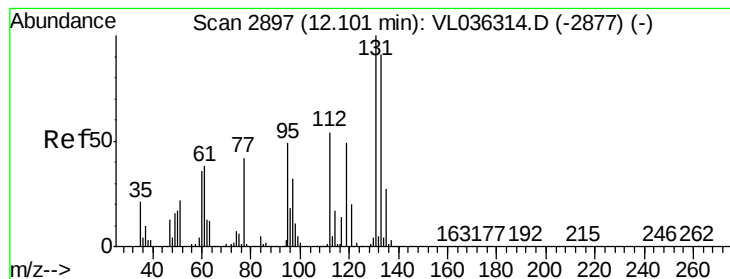
Ion Ratio Lower Upper

117 100

82 72.8 59.1 88.7

119 34.4 46.3 69.5#

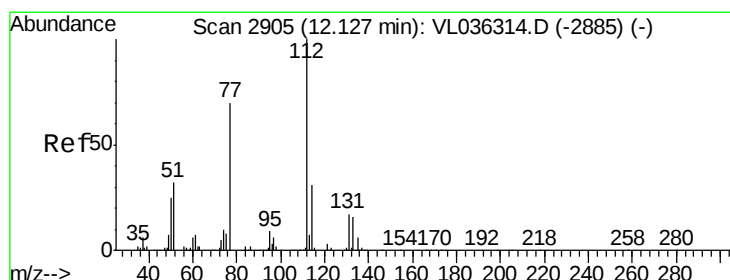
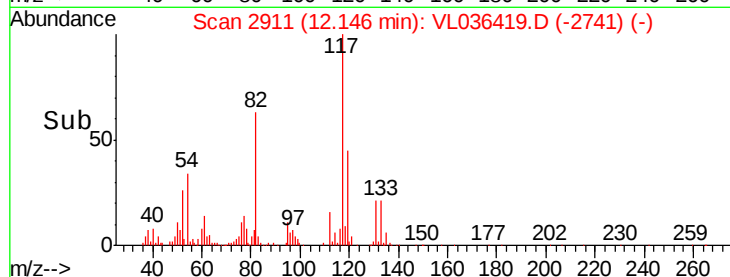
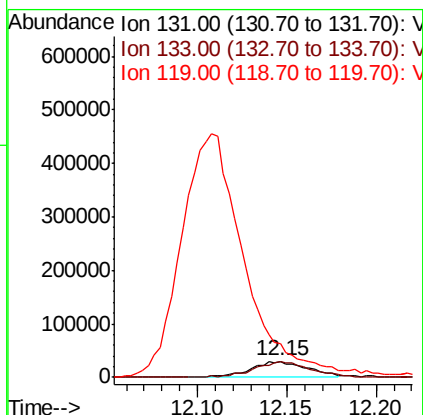
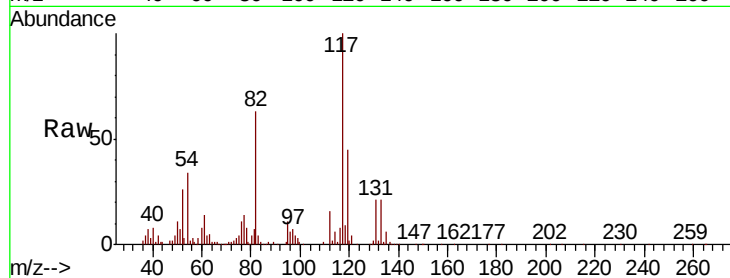




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.425 ppbv
 RT: 12.15 min Scan# 2911
 Delta R.T. 0.05 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

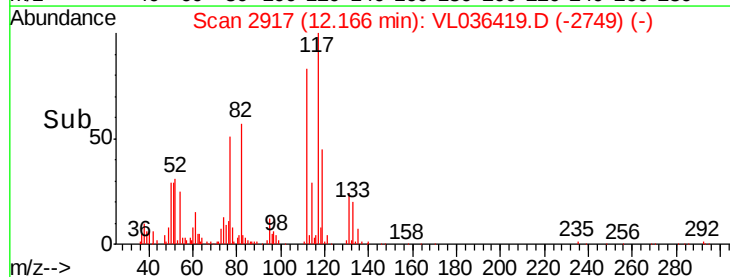
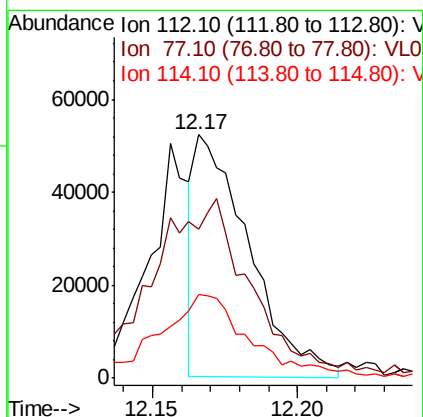
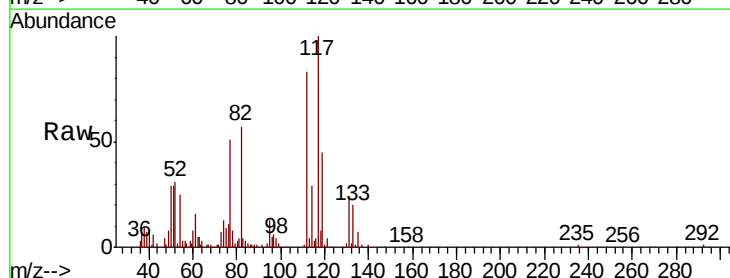
Instrument :
 MSVOA_L
 ClientSampleId :

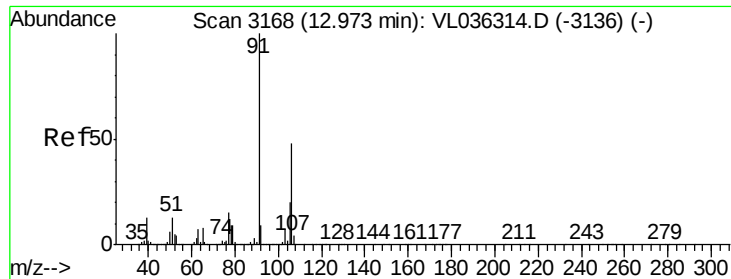
Tot Ion:131 Resp: 65034
 Ion Ratio Lower Upper
 131 100
 133 105.1 76.0 114.0
 119 1748.9 115.1 172.7#



#57
 Chlorobenzene
 Concen: 0.264 ppbv
 RT: 12.17 min Scan# 2917
 Delta R.T. 0.04 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Tgt Ion:112 Resp: 67838
 Ion Ratio Lower Upper
 112 100
 77 59.8 56.1 84.1
 114 33.1 28.3 34.5





#59

m/p-Xylene

Concen: 0.326 ppbv

RT: 13.02 min Scan# 3183

Delta R.T. 0.05 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

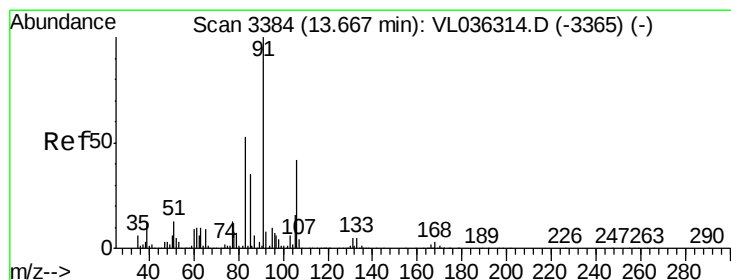
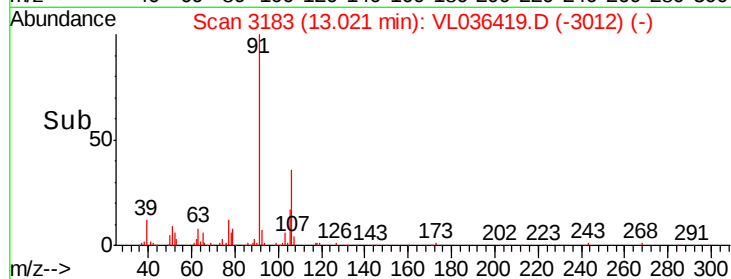
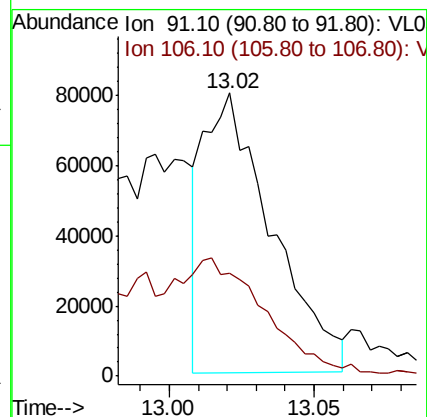
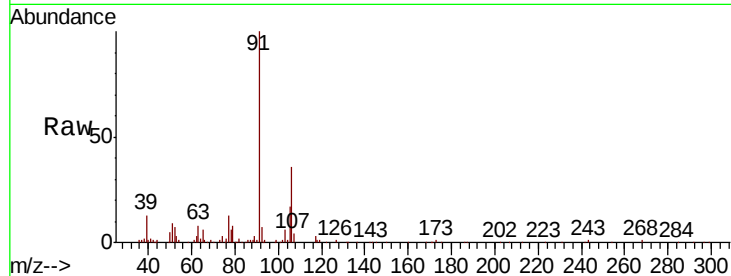
ClientSampleId :

Tot Ion: 91 Resp: 130612

Ion Ratio Lower Upper

91 100

106 90.1 34.2 51.2#



#60

o-Xylene

Concen: 0.159 ppbv

RT: 13.72 min Scan# 3400

Delta R.T. 0.05 min

Lab File: VL036419.D

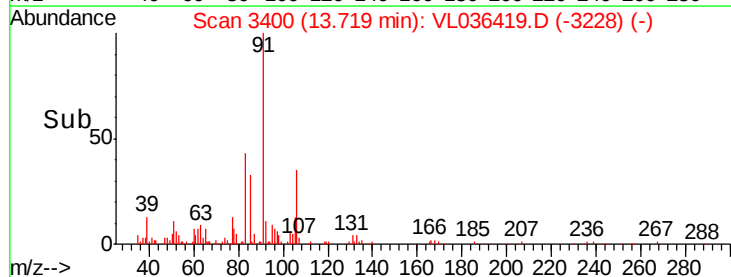
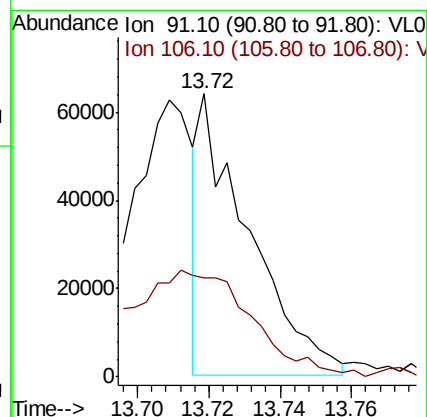
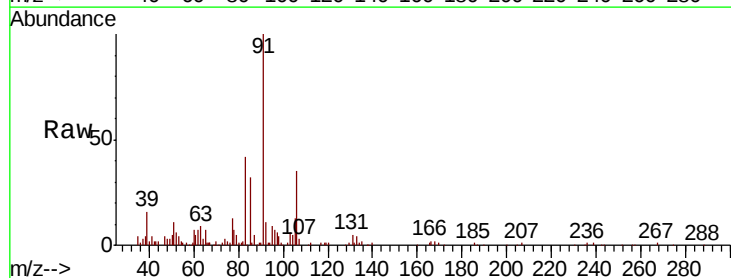
Acq: 1 Mar 2021 17:51

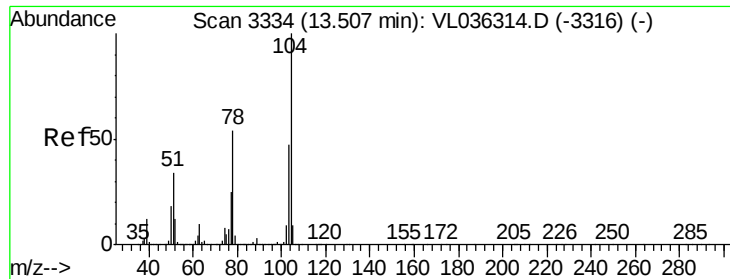
Tgt Ion: 91 Resp: 61018

Ion Ratio Lower Upper

91 100

106 0.0 22.0 66.0#





#61

Stvrene

Concen: 0.131 ppbv

RT: 13.55 min Scan# 3348

Delta R.T. 0.05 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

ClientSampleId :

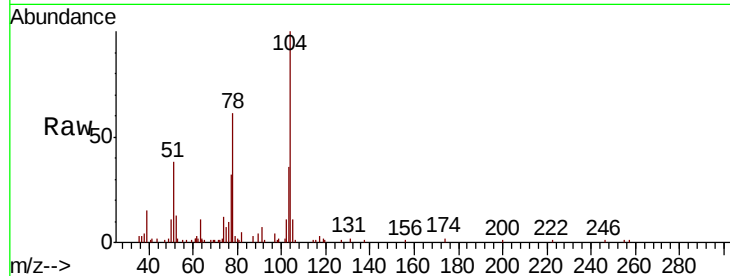
Tot Ion:104 Resp: 31067

Ion Ratio Lower Upper

104 100

78 112.5 46.2 69.2#

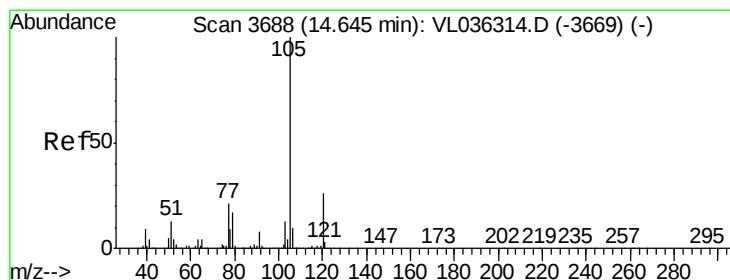
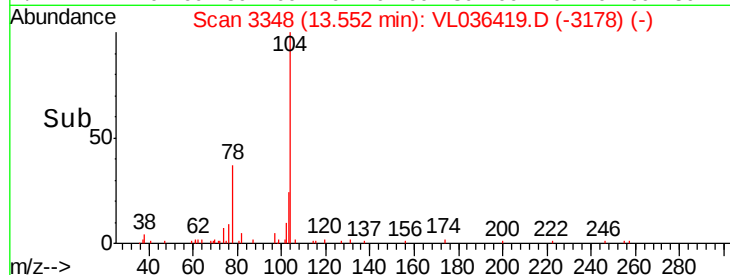
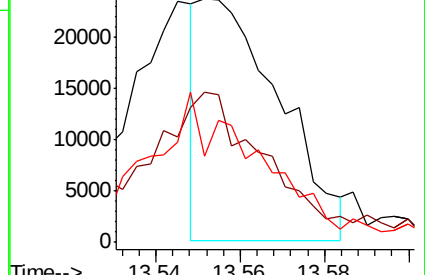
103 98.7 38.3 57.5#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.187 ppbv

RT: 14.69 min Scan# 3703

Delta R.T. 0.05 min

Lab File: VL036419.D

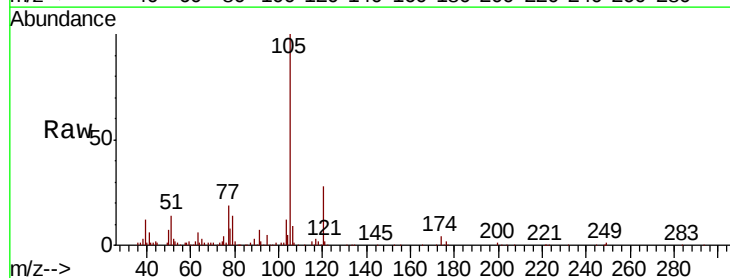
Acq: 1 Mar 2021 17:51

Tgt Ion:105 Resp: 107134

Ion Ratio Lower Upper

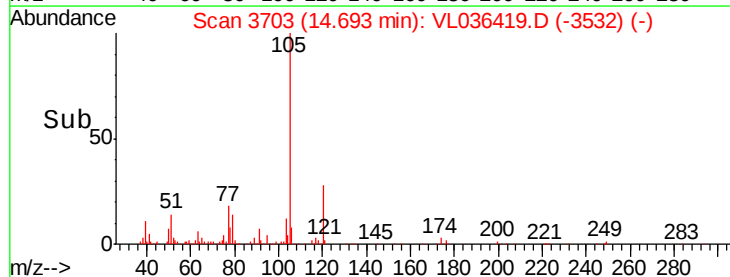
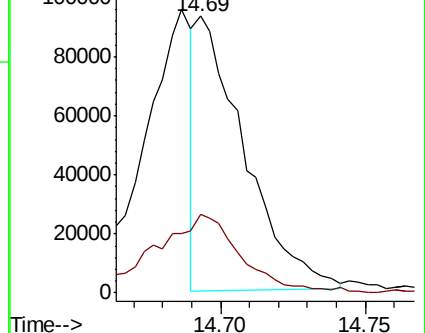
105 100

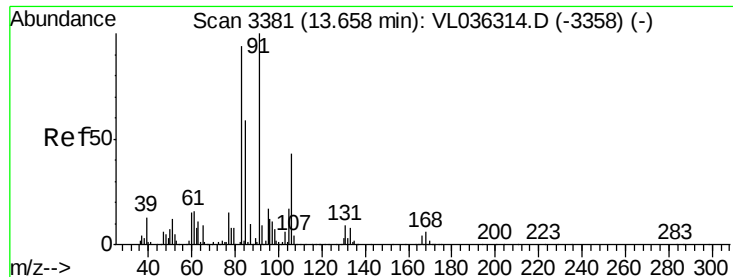
120 53.0 20.6 30.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

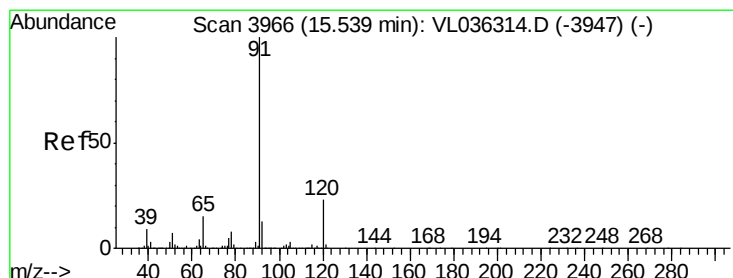
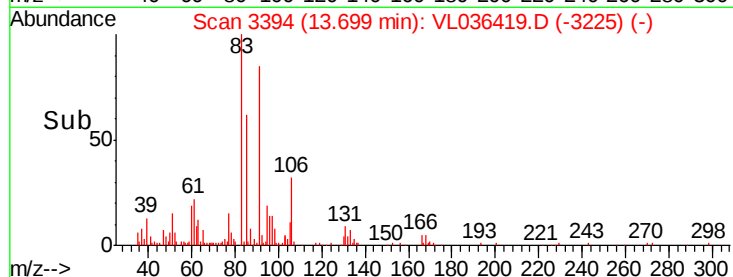
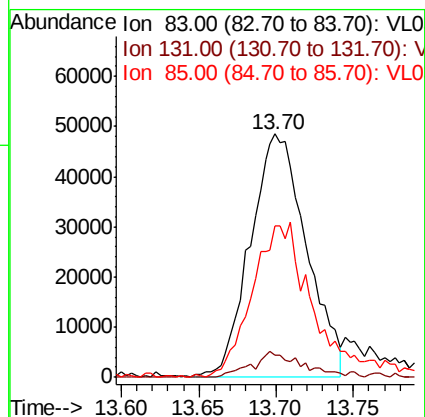
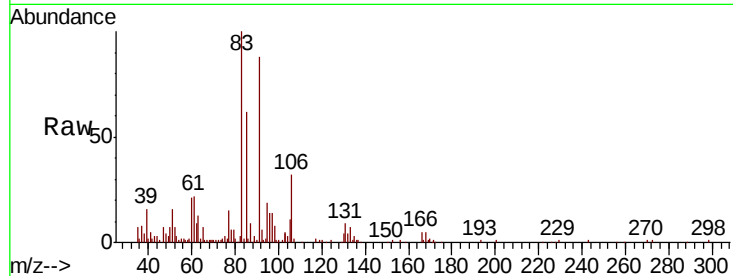




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.406 ppbv
 RT: 13.70 min Scan# 3394
 Delta R.T. 0.04 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

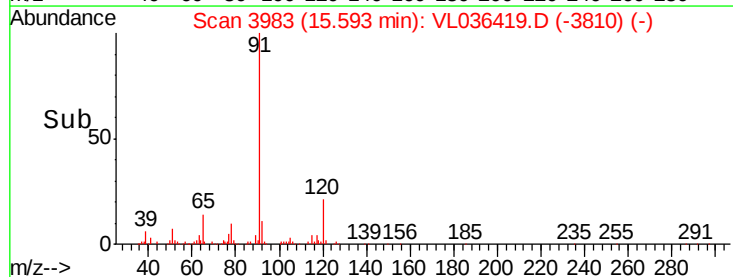
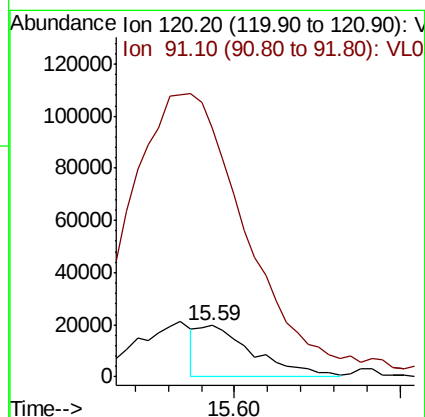
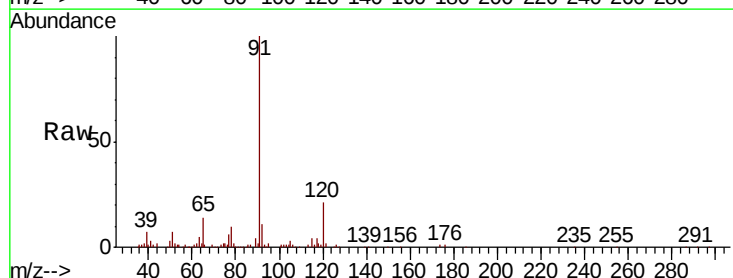
Instrument :
 MSVOA_L
 ClientSampleId :

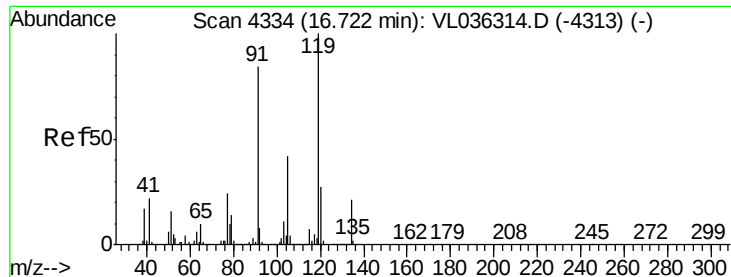
Tot Ion: 83 Resp: 122618
 Ion Ratio Lower Upper
 83 100
 131 10.3 4.7 14.0
 85 69.5 33.0 98.9



#64
 n-propylbenzene
 Concen: 0.157 ppbv
 RT: 15.59 min Scan# 3983
 Delta R.T. 0.05 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Tgt Ion:120 Resp: 22217
 Ion Ratio Lower Upper
 120 100
 91 0.0 387.2 580.8#





#65

tert-Butylbenzene

Concen: 0.337 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. 0.05 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

ClientSampleId :

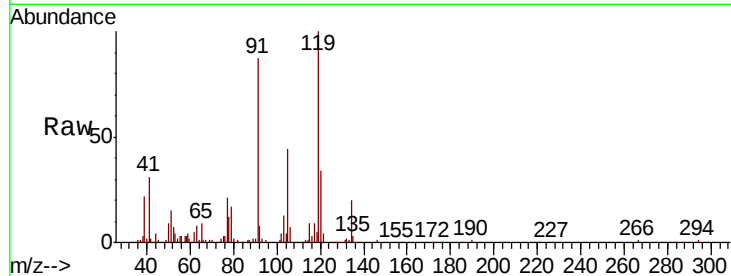
Tot Ion: 119 Resp: 165164

Ion Ratio Lower Upper

119 100

91 104.5 70.5 105.7

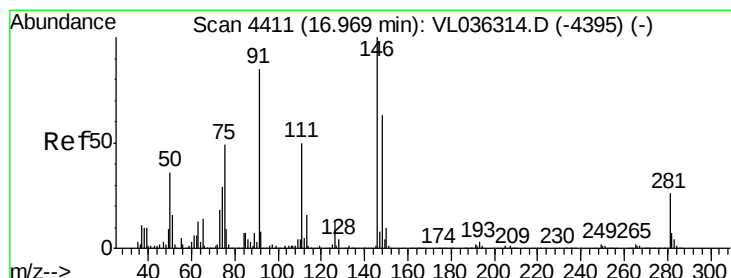
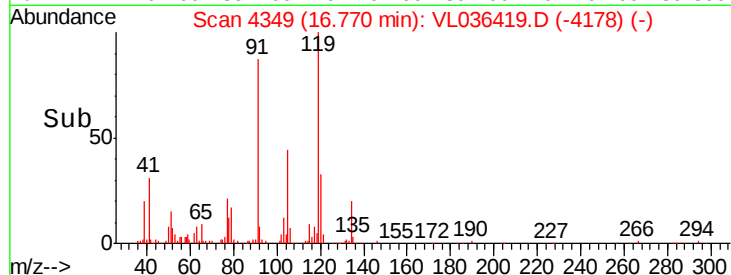
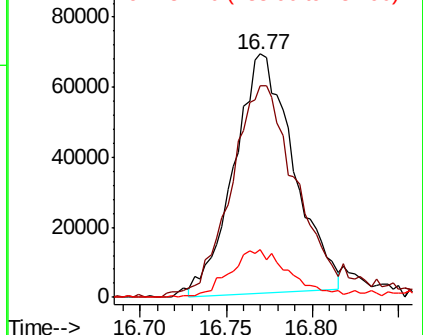
134 20.3 15.8 23.8



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.047 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. 0.07 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

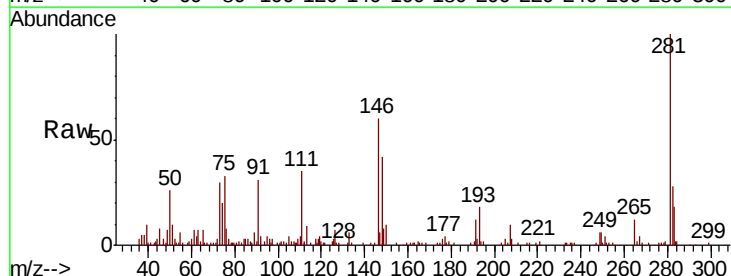
Tgt Ion: 91 Resp: 6242

Ion Ratio Lower Upper

91 100

126 0.0 12.9 19.3#

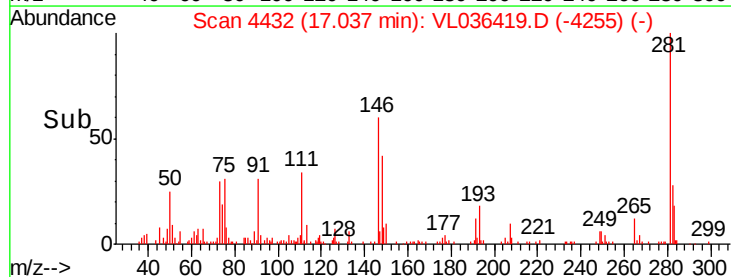
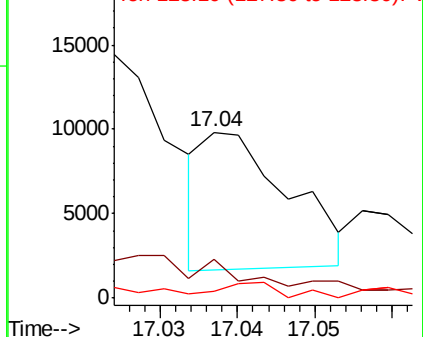
128 24.2 4.2 6.2#

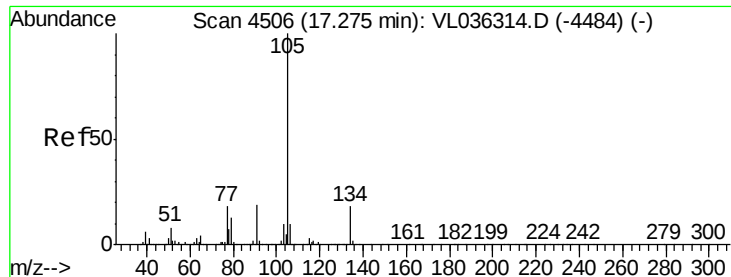


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.352 ppbv

RT: 17.32 min Scan# 4519

Delta R.T. 0.04 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

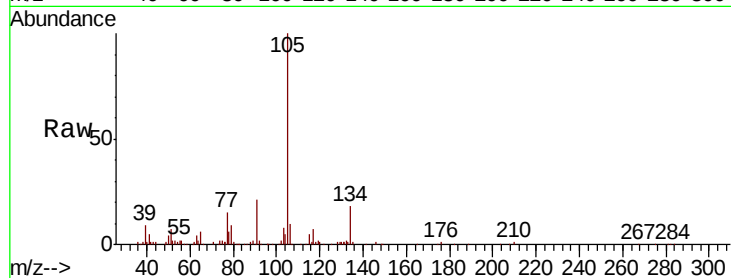
ClientSampled :

Tot Ion: 105 Resp: 249367

Ion Ratio Lower Upper

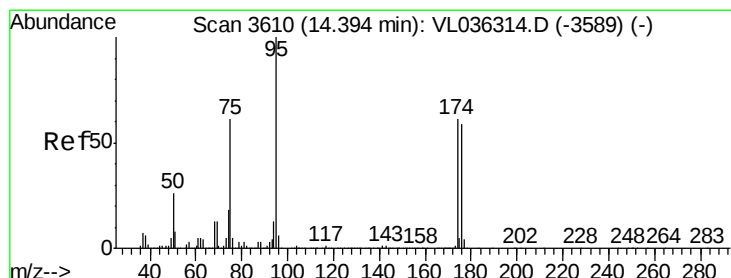
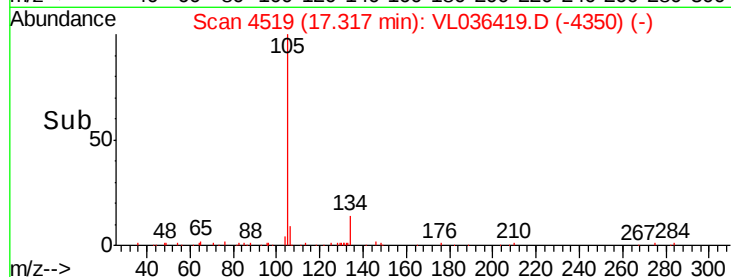
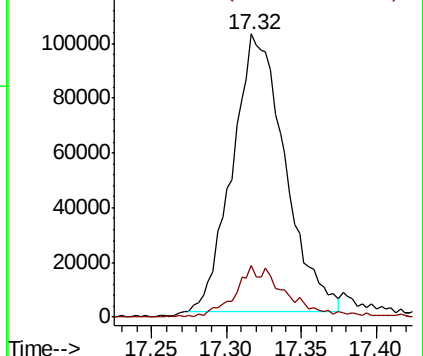
105 100

134 18.2 14.2 21.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.894 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. 0.04 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

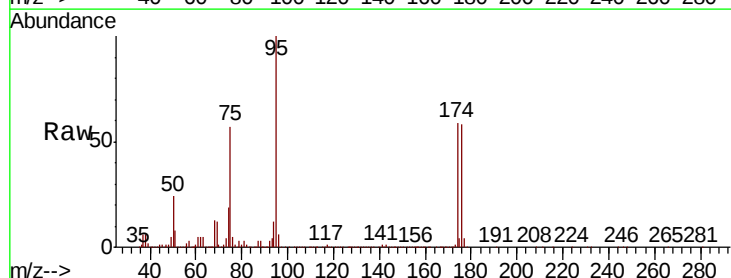
Tgt Ion: 95 Resp: 2708513

Ion Ratio Lower Upper

95 100

174 63.3 49.8 74.6

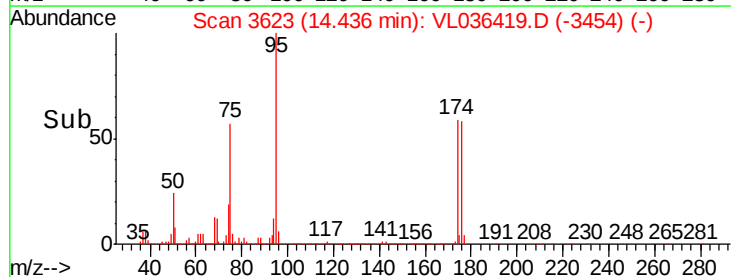
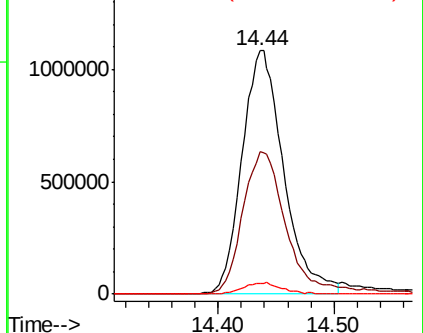
175 4.7 3.7 5.5

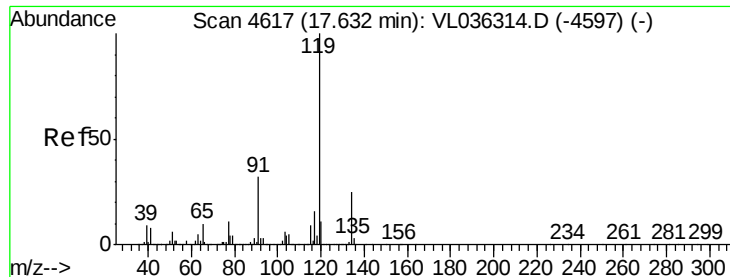


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

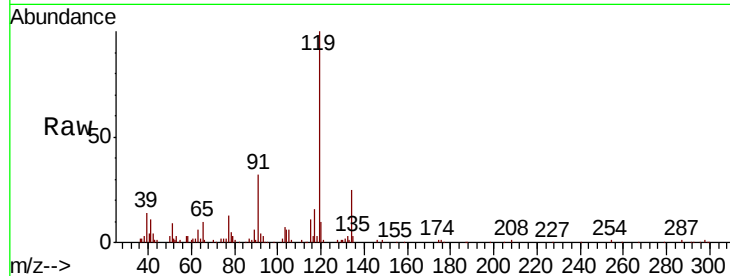




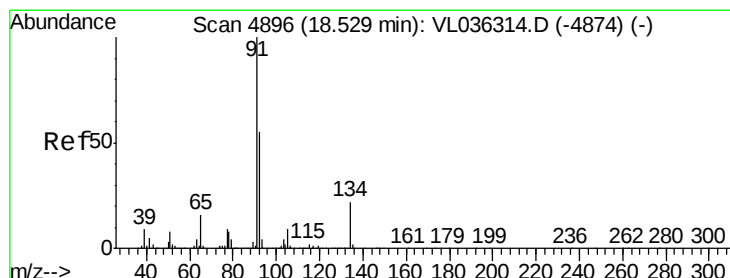
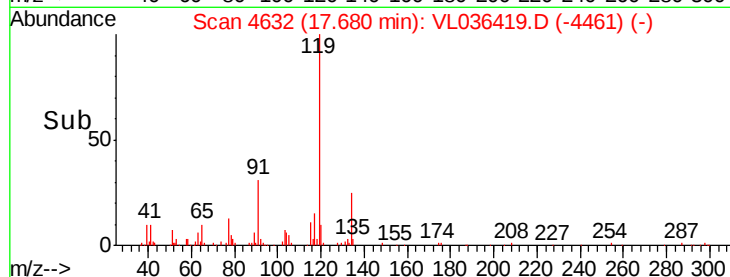
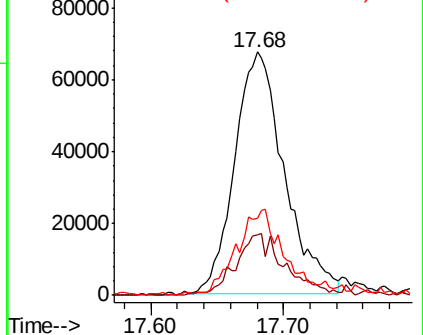
#69
p-Isopropyltoluene
Concen: 0.321 ppbv
RT: 17.68 min Scan# 4632
Delta R.T. 0.05 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:119 Resp: 175682
Ion Ratio Lower Upper
119 100
134 26.7 20.1 30.1
91 36.8 25.8 38.6

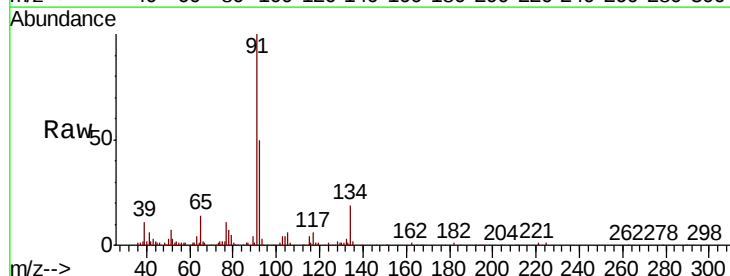


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

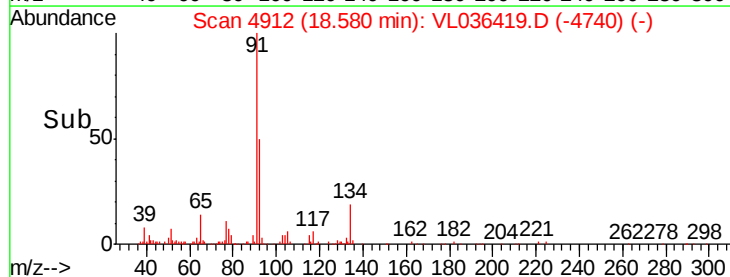
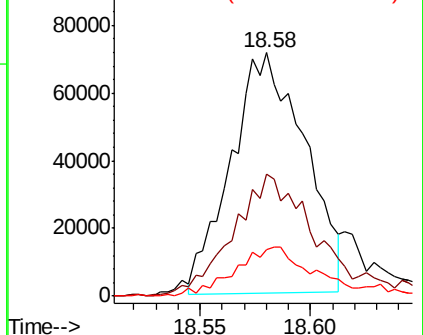


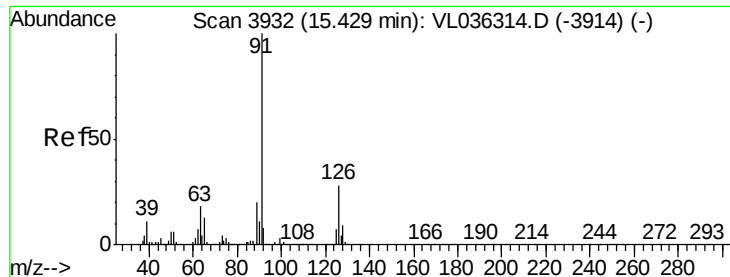
#70
n-Butylbenzene
Concen: 0.282 ppbv
RT: 18.58 min Scan# 4912
Delta R.T. 0.05 min
Lab File: VL036419.D
Acq: 1 Mar 2021 17:51

Tgt Ion: 91 Resp: 165399
Ion Ratio Lower Upper
91 100
92 59.4 43.7 65.5
134 24.1 17.4 26.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.359 ppbv

RT: 15.47 min Scan# 3946

Delta R.T. 0.05 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Instrument :

MSVOA_L

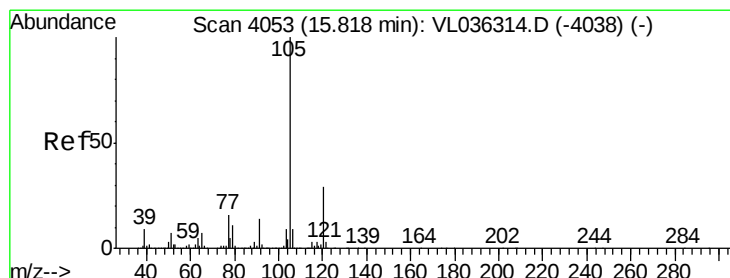
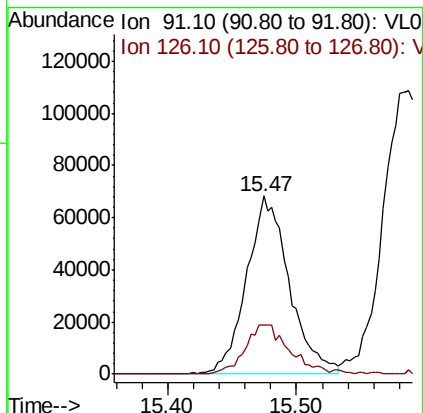
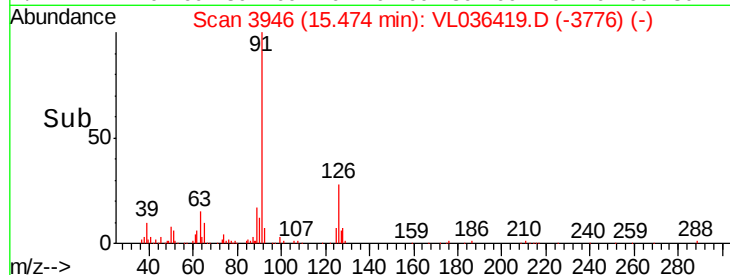
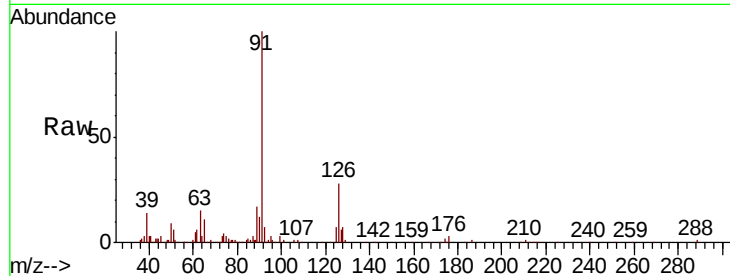
ClientSampleId :

Tot Ion: 91 Resp: 157621

Ion Ratio Lower Upper

91 100

126 29.9 11.5 46.1



#72

4-Ethyltoluene

Concen: 0.305 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. 0.05 min

Lab File: VL036419.D

Acq: 1 Mar 2021 17:51

Tgt Ion: 105 Resp: 129852

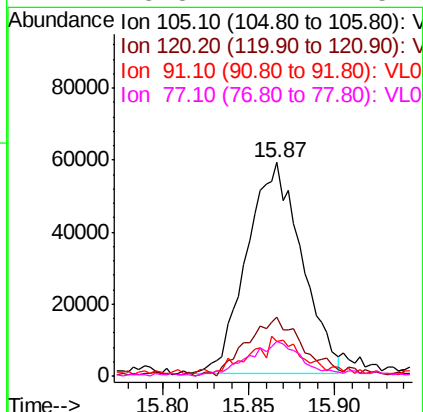
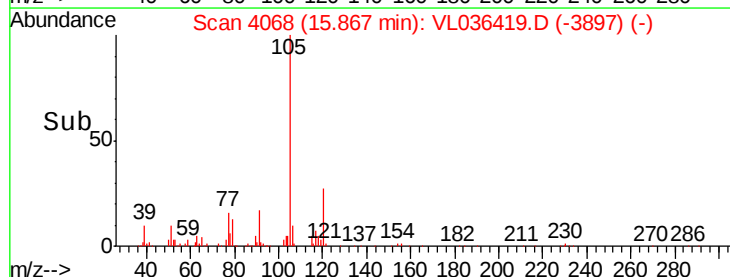
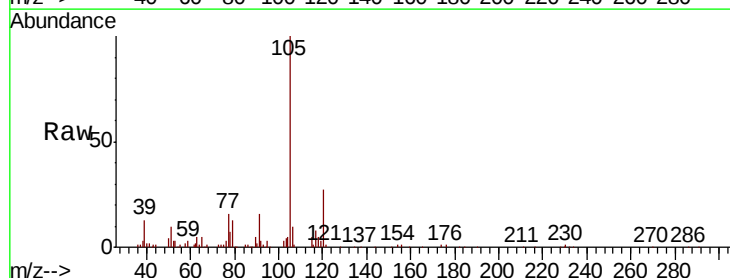
Ion Ratio Lower Upper

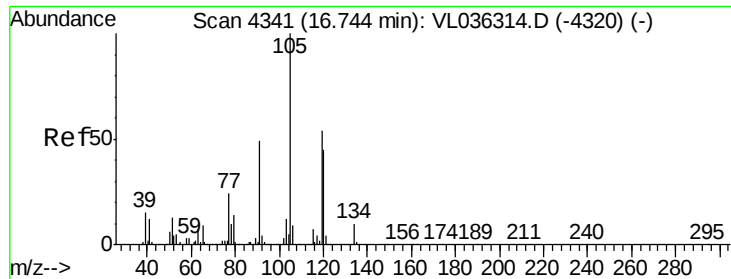
105 100

120 31.9 23.2 34.8

91 16.6 11.0 16.4#

77 15.8 12.2 18.4

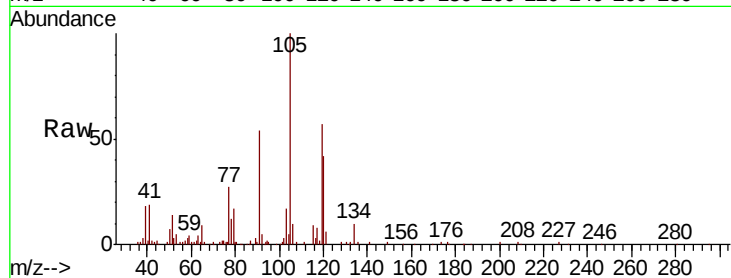




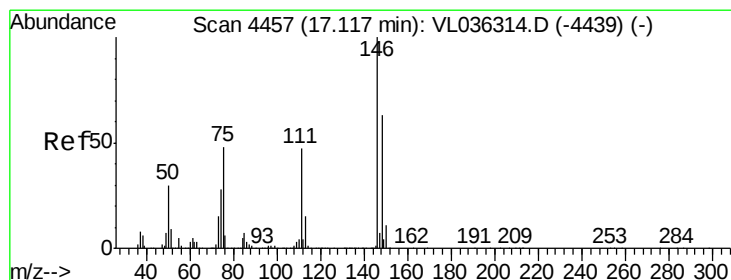
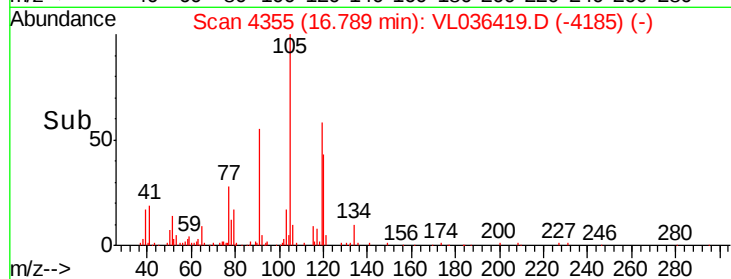
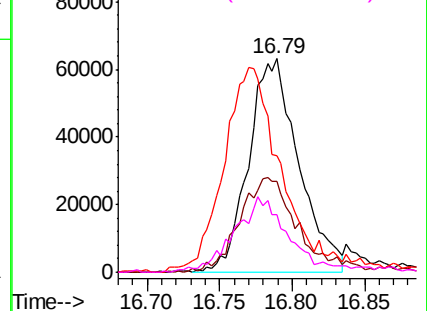
#74
 1,2,4-Trimethylbenzene
 Concen: 0.358 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. 0.05 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:	105	Resp:	150785
Ion	Ratio	Lower	Upper
105	100		
120	40.8	35.8	53.6
91	49.7	39.8	59.6
77	25.2	19.1	28.7

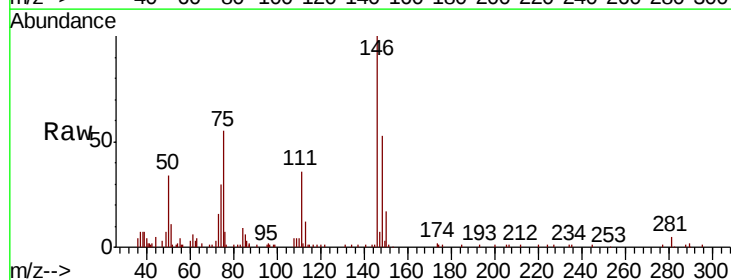


Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

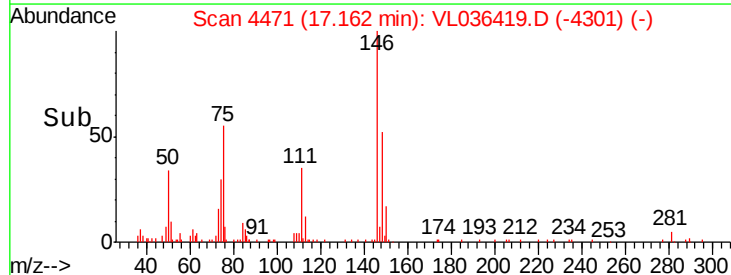
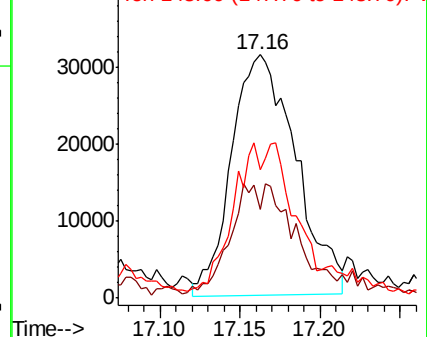


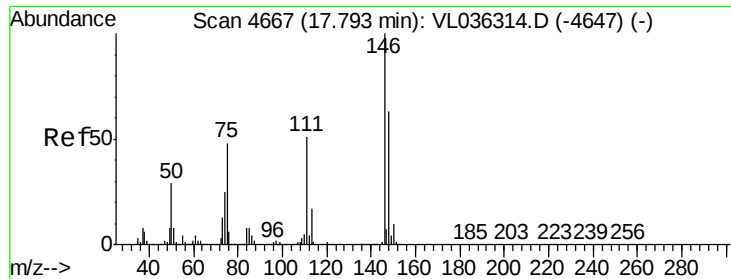
#76
 1,4-Dichlorobenzene
 Concen: 0.364 ppbv
 RT: 17.16 min Scan# 4471
 Delta R.T. 0.05 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Tgt Ion:	146	Resp:	86507
Ion	Ratio	Lower	Upper
146	100		
111	52.3	23.6	71.0
148	69.4	31.6	95.0



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

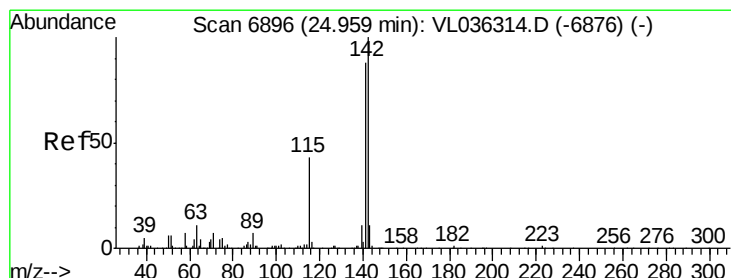
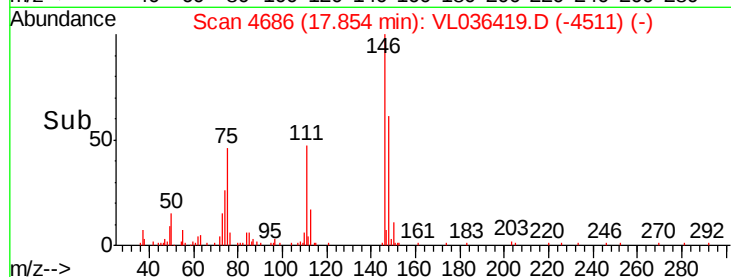
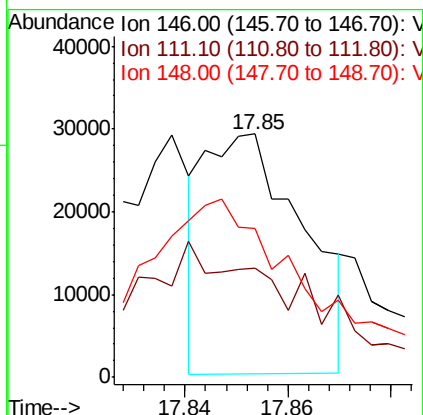
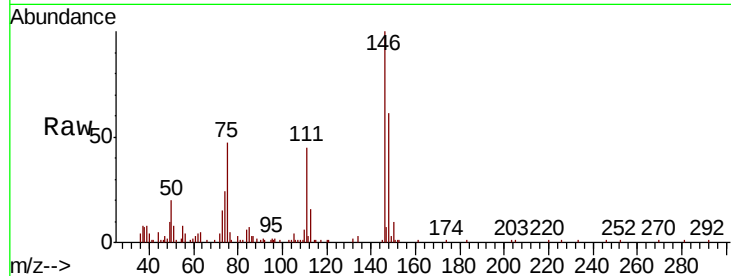




#77
 1,2-Dichlorobenzene
 Concen: 0.170 ppbv
 RT: 17.85 min Scan# 4686
 Delta R.T. 0.06 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:146 Resp: 38500
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.9 77.8#
 148 156.6 32.5 97.4#



#80
 Naphthalene, 2-methyl-
 Concen: 0.041 ppbv
 RT: 25.07 min Scan# 6931
 Delta R.T. 0.11 min
 Lab File: VL036419.D
 Acq: 1 Mar 2021 17:51

Tgt Ion:142 Resp: 1905
 Ion Ratio Lower Upper
 142 100
 141 0.0 64.4 96.6#
 115 22.5 34.6 51.8#

