

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082320\
 Data File : VL035494.D
 Acq On : 23 Aug 2020 10:09
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Aug 23 10:42:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sun Aug 23 10:33:49 2020
 QLast Update : Sun Aug 23 10:33:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1024379	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4556785	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4573632	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3303032	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	121915	0.642	ppbv 97
3) Chlorodifluoromethane	2.98	51	62052	0.483	ppbv 99
4) Chloromethane	3.13	50	31239	0.467	ppbv 99
5) Vinyl Chloride	3.25	62	37642	0.471	ppbv 97
6) Bromomethane	3.47	94	34525	0.494	ppbv 96
7) Chloroethane	3.56	64	14483	0.492	ppbv 96
8) Dichlorotetrafluoroethane	3.18	85	124418	0.512	ppbv 100
9) Propene	3.01	41	25541	0.495	ppbv 96
10) Heptane	8.13	43	61175	0.452	ppbv 100
11) Trichlorofluoromethane	3.94	101	148634	0.499	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	110147	0.496	ppbv 98
13) Ethanol	3.61	45	6812m	0.360	ppbv
14) Bromoethene	3.74	108	44372	0.452	ppbv 96
15) Acetone	3.86	43	60503	0.513	ppbv 89
16) 1,3-Butadiene	3.32	39	21899	0.458	ppbv 96
17) tert-Butyl alcohol	4.30	59	71689	0.470	ppbv 100
18) 1,1-Dichloroethene	4.29	96	45722	0.466	ppbv 93
19) Isopropyl Alcohol	3.97	45	37067	0.456	ppbv # 90
20) Methylene Chloride	4.34	84	80801m	0.849	ppbv
21) Allyl Chloride	4.41	41	26952m	0.450	ppbv
22) trans-1,2-Dichloroethene	4.89	96	49356	0.472	ppbv 97
23) Vinyl Acetate	5.07	43	65864	0.391	ppbv # 98
24) 1,1-Dichloroethane	5.01	63	79986	0.476	ppbv 97
25) Ethyl Acetate	5.69	43	112937	0.492	ppbv 98
26) Hexane	5.69	57	70202	0.542	ppbv 94
27) Carbon Disulfide	4.55	76	73941	0.395	ppbv # 90
28) Methyl tert-Butyl Ether	5.05	73	102955	0.435	ppbv 100
29) Chloroform	5.75	83	130811	0.503	ppbv 96
30) Cyclohexane	7.13	84	61742m	0.430	ppbv
31) cis-1,2-Dichloroethene	5.55	61	58611	0.430	ppbv 95
32) 1,1,1-Trichloroethane	6.51	97	111835	0.459	ppbv 97
34) 2-Butanone	5.26	43	68776	0.452	ppbv 98
35) Carbon Tetrachloride	7.02	117	112738	0.465	ppbv 98
36) Benzene	6.89	78	153625	0.459	ppbv 98
37) 1,2-Dichloroethane	6.31	62	76655	0.502	ppbv 99
38) Trichloroethene	7.83	130	85616	0.460	ppbv 94
39) 1,2-Dichloropropane	7.61	63	51970	0.471	ppbv 97
40) 1,4-Dioxane	7.87	88	20368	0.339	ppbv # 16
41) Tetrahydrofuran	6.07	42	34558	0.412	ppbv 94
42) Bromodichloromethane	7.79	83	109709	0.429	ppbv # 98
43) Methyl Methacrylate	8.02	69	54021	0.413	ppbv 96

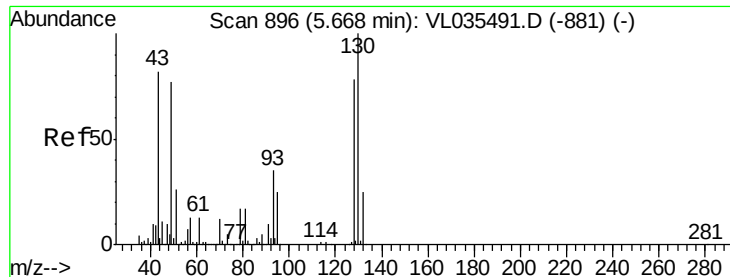
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082320\
 Data File : VL035494.D
 Acq On : 23 Aug 2020 10:09
 Operator : SY/AP
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Instrument :
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Quant Time: Aug 23 10:42:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sun Aug 23 10:33:49 2020
 QLast Update : Sun Aug 23 10:33:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	204465	0.468	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	46969	0.349	ppbv	92
46) cis-1,3-Dichloropropene	8.71	75	61377	0.366	ppbv	95
47) 1,1,2-Trichloroethane	9.48	97	77870	0.473	ppbv	98
48) Dibromochloromethane	10.31	129	102817	0.372	ppbv	99
49) Bromoform	13.05	173	88401	0.332	ppbv	97
50) 4-Methyl-2-Pentanone	8.76	43	92240	0.422	ppbv	99
51) 2-Hexanone	10.16	43	69295	0.376	ppbv #	95
52) Tetrachloroethene	11.23	164	91178	0.447	ppbv	97
53) Toluene	9.81	91	186077	0.432	ppbv	97
54) 1,2-Dibromoethane	10.62	107	120706	0.451	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.13	131	95373	0.440	ppbv #	1
57) Chlorobenzene	12.16	112	193598	0.507	ppbv #	90
58) Ethyl Benzene	12.72	91	250888	0.454	ppbv	92
59) m/p-Xylene	13.01	91	438873m	0.940	ppbv	
60) o-Xylene	13.70	91	213789	0.471	ppbv	97
61) Styrene	13.54	104	145410	0.397	ppbv	97
62) Isopropylbenzene	14.68	105	358509	0.482	ppbv	93
63) 1,1,2,2-Tetrachloroethane	13.69	83	162932	0.500	ppbv	99
64) n-propylbenzene	15.58	120	101933	0.445	ppbv	70
65) tert-Butylbenzene	16.76	119	329600	0.456	ppbv	96
66) Benzyl Chloride	17.01	91	49609m	0.285	ppbv	
67) sec-Butylbenzene	17.31	105	449064	0.472	ppbv	92
69) p-Isopropyltoluene	17.67	119	374906	0.444	ppbv	95
70) n-Butylbenzene	18.57	91	370090	0.464	ppbv	92
71) 2-Chlorotoluene	15.46	91	245438	0.455	ppbv	97
72) 4-Ethyltoluene	15.86	105	261134	0.439	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	241334	0.436	ppbv	96
74) 1,2,4-Trimethylbenzene	16.78	105	283290	0.471	ppbv	97
75) 1,3-Dichlorobenzene	17.01	146	217571	0.468	ppbv	97
76) 1,4-Dichlorobenzene	17.16	146	218115m	0.476	ppbv	
77) 1,2-Dichlorobenzene	17.84	146	216768	0.476	ppbv	96
78) Hexachloro-1,3-Butadiene	23.40	225	148111	0.411	ppbv	98
79) Naphthalene	22.23	128	320593	0.378	ppbv	96
80) Naphthalene, 2-methyl-	25.00	142	98715	0.282	ppbv	99
81) 1,2,4-Trichlorobenzene	21.96	180	201105	0.394	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

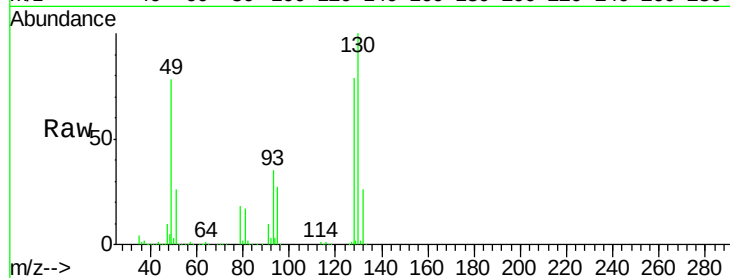
Tot Ion: 49 Resp: 1024379

Ion Ratio Lower Upper

49 100

128 101.6 51.6 154.9

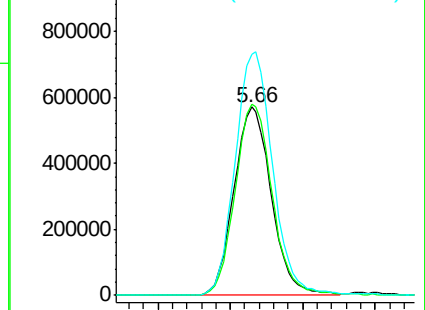
130 130.8 66.1 198.4



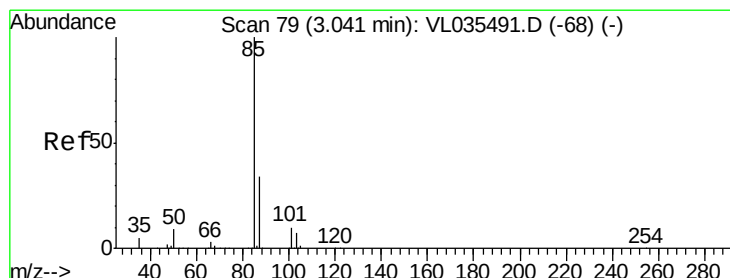
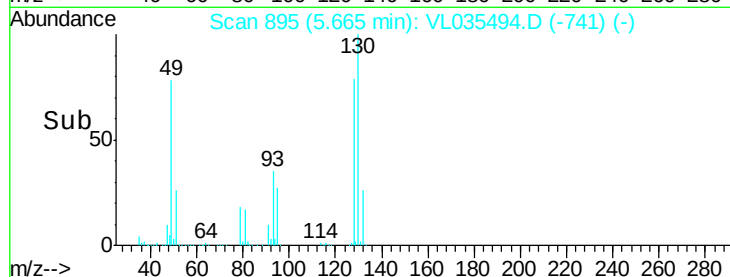
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#2

Dichlorodifluoromethane

Concen: 0.642 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL035494.D

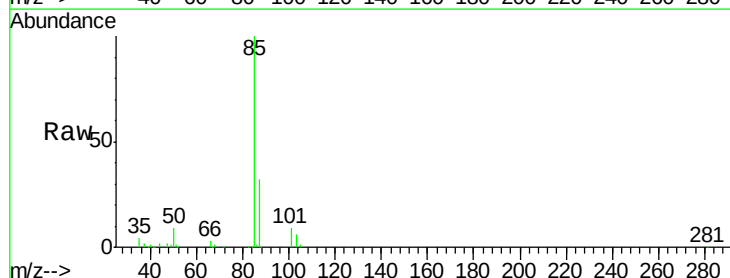
Acq: 23 Aug 2020 10:09

Tgt Ion: 85 Resp: 121915

Ion Ratio Lower Upper

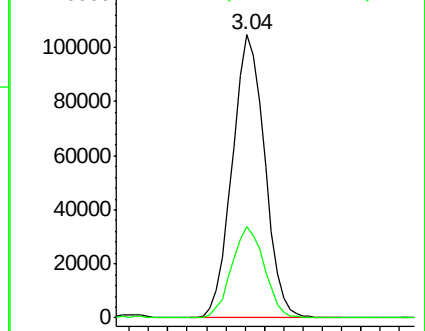
85 100

87 32.4 27.3 40.9

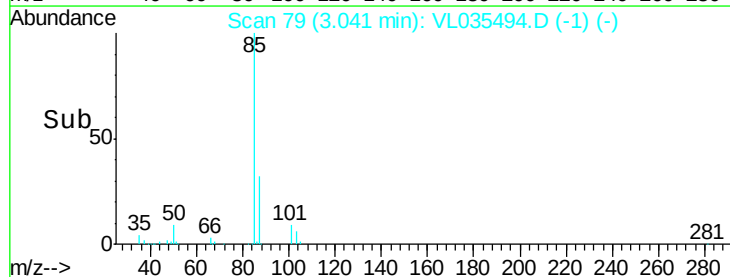


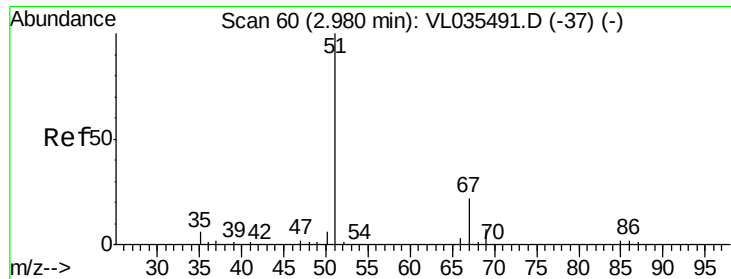
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->





#3

Chlorodifluoromethane

Concen: 0.483 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

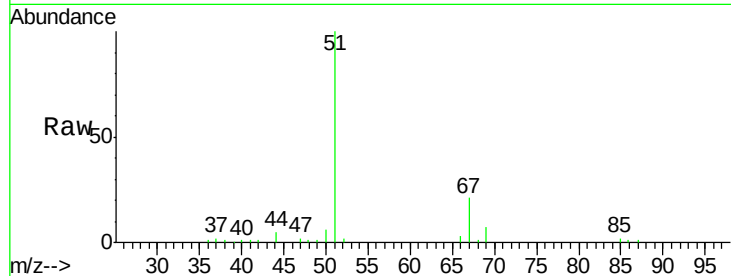
VSTDIC0.5

Tot Ion: 51 Resp: 62052

Ion Ratio Lower Upper

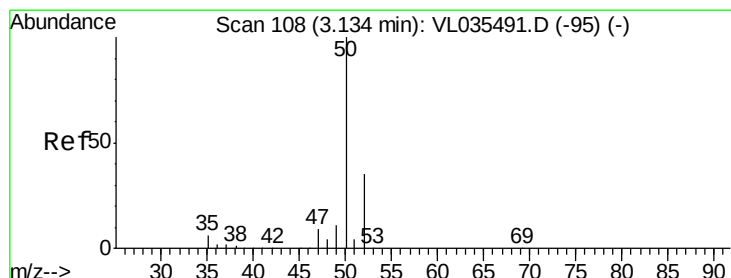
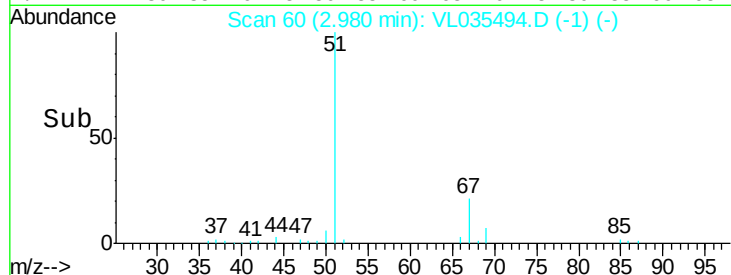
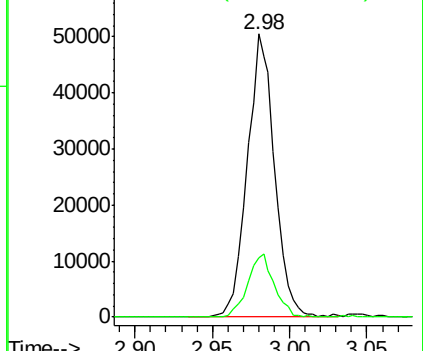
51 100

67 21.7 17.9 26.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.467 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL035494.D

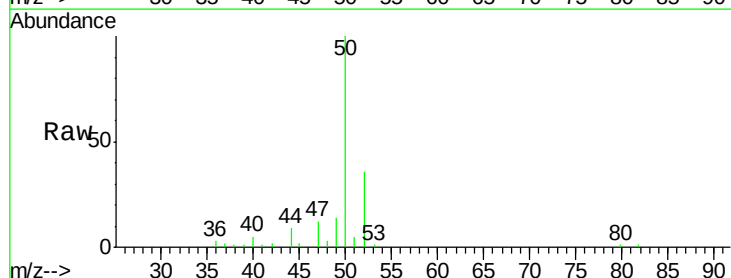
Acq: 23 Aug 2020 10:09

Tgt Ion: 50 Resp: 31239

Ion Ratio Lower Upper

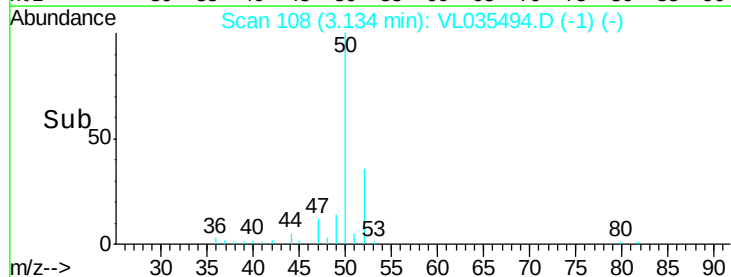
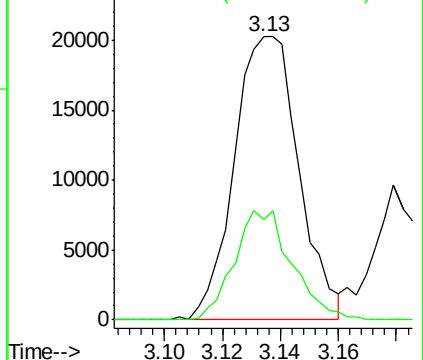
50 100

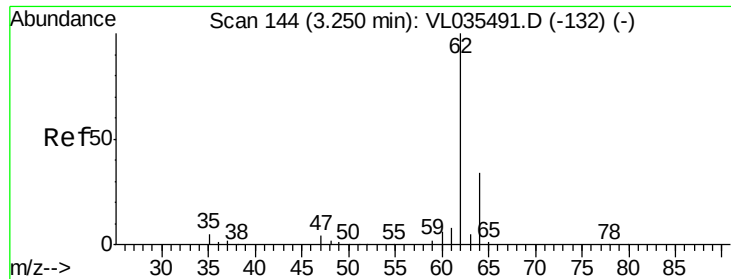
52 35.7 28.2 42.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.471 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

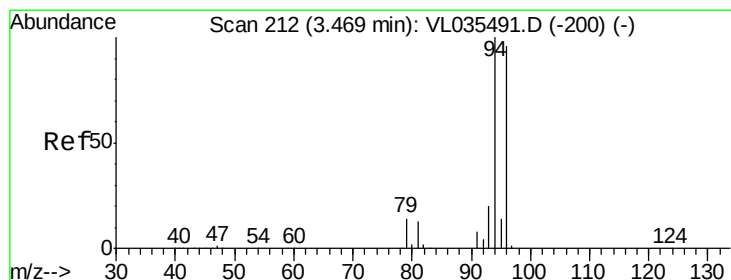
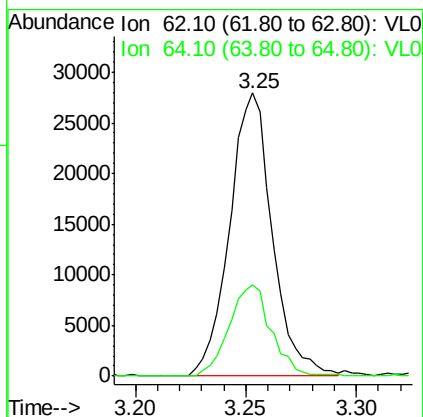
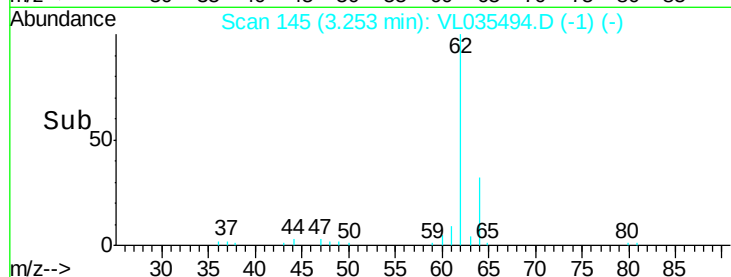
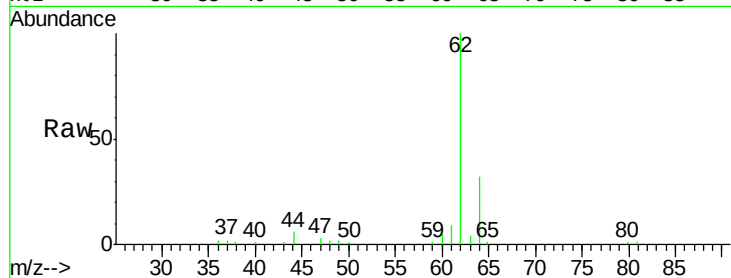
VSTDIC0.5

Tot Ion: 62 Resp: 37642

Ion Ratio Lower Upper

62 100

64 32.1 27.1 40.7



#6

Bromomethane

Concen: 0.494 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL035494.D

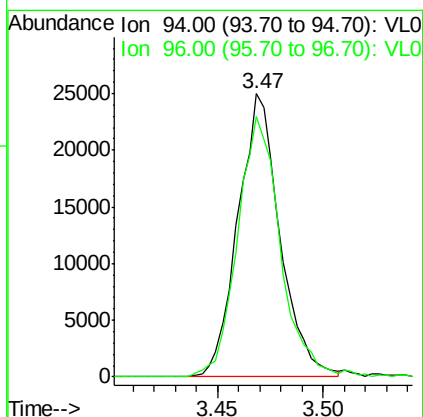
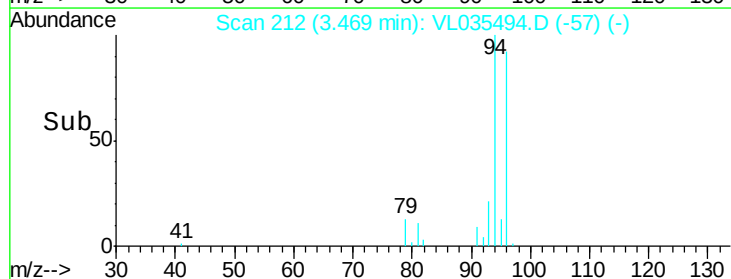
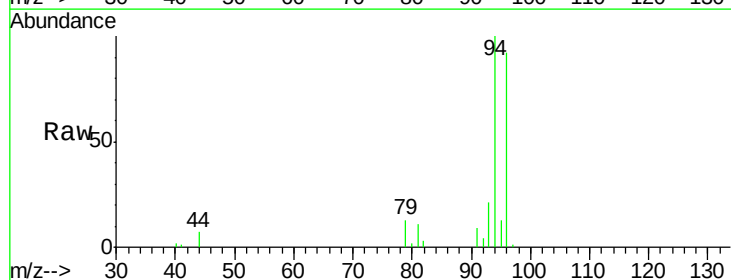
Acq: 23 Aug 2020 10:09

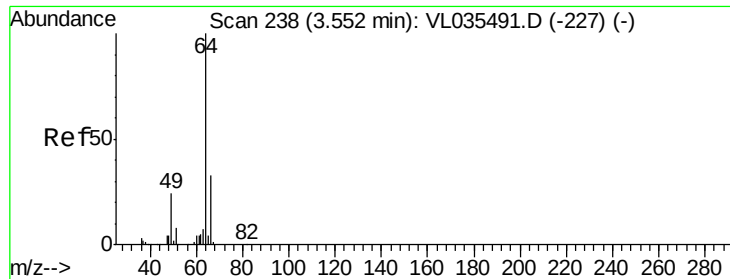
Tgt Ion: 94 Resp: 34525

Ion Ratio Lower Upper

94 100

96 92.1 76.6 115.0





#7

Chloroethane

Concen: 0.492 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

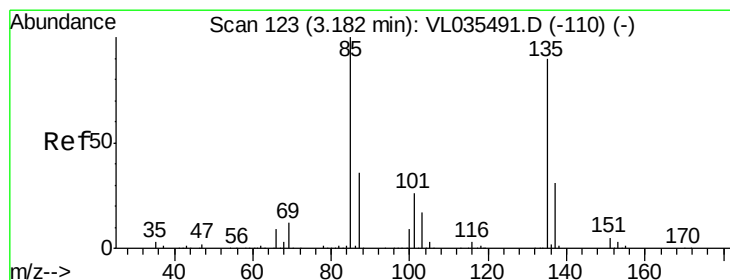
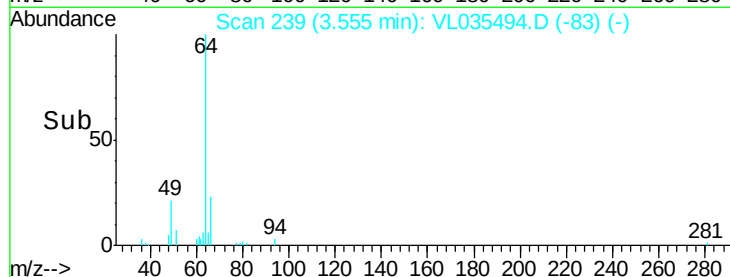
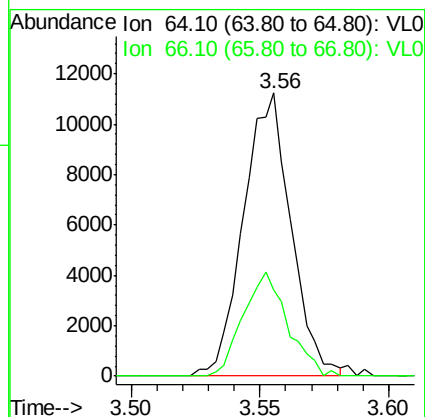
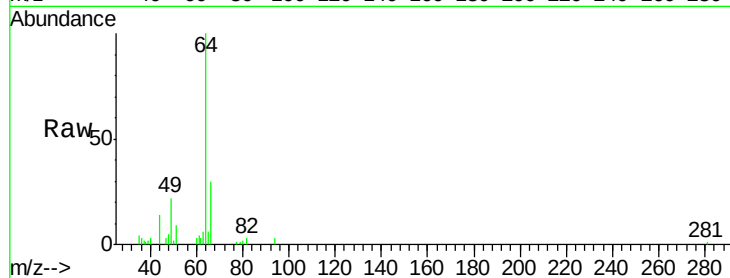
VSTDIC0.5

Tot Ion: 64 Resp: 14483

Ion Ratio Lower Upper

64 100

66 30.4 26.2 39.2



#8

Dichlorotetrafluoroethane

Concen: 0.512 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL035494.D

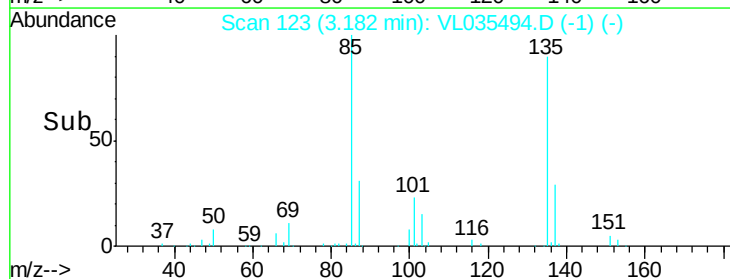
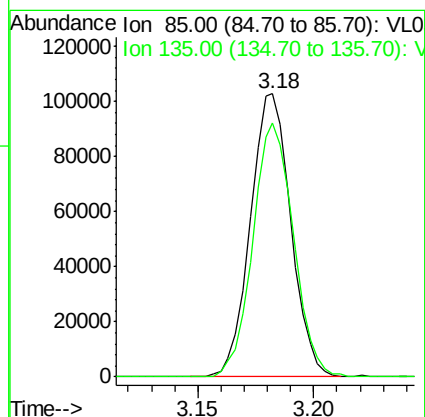
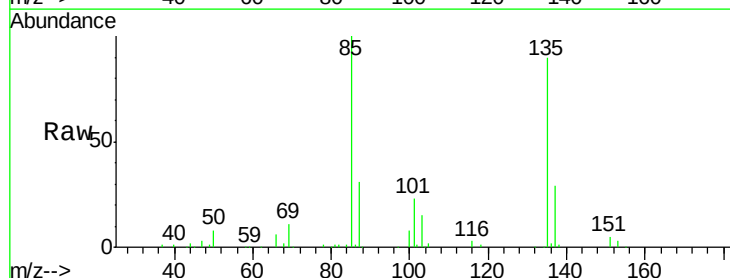
Acq: 23 Aug 2020 10:09

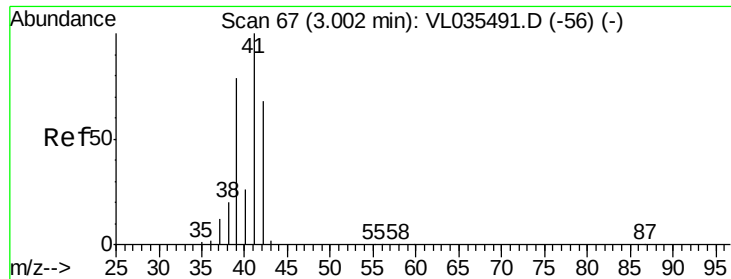
Tgt Ion: 85 Resp: 124418

Ion Ratio Lower Upper

85 100

135 90.2 71.8 107.6





#9

Propene

Concen: 0.495 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

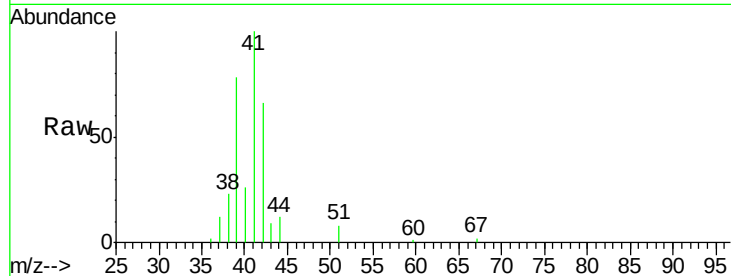
VSTDIC0.5

Tot Ion: 41 Resp: 25541

Ion Ratio Lower Upper

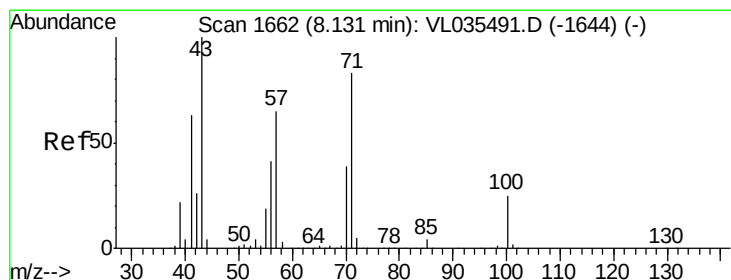
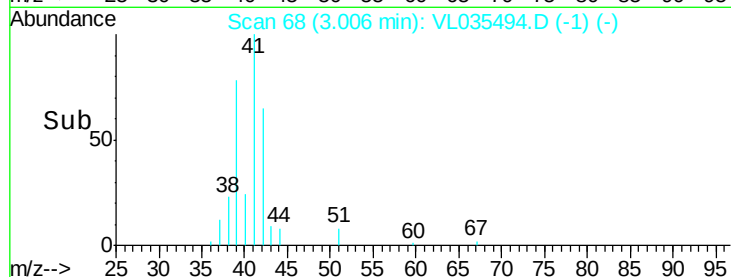
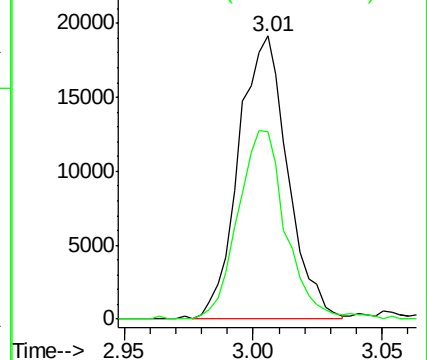
41 100

42 65.5 55.3 82.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.452 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035494.D

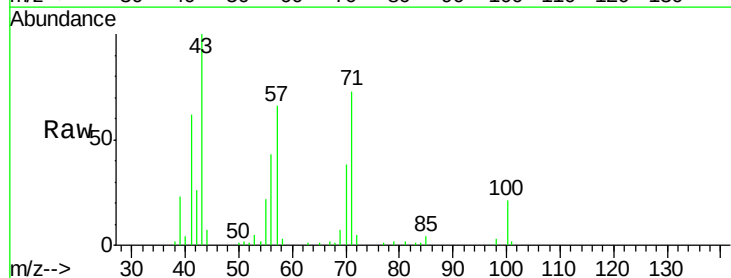
Acq: 23 Aug 2020 10:09

Tgt Ion: 43 Resp: 61175

Ion Ratio Lower Upper

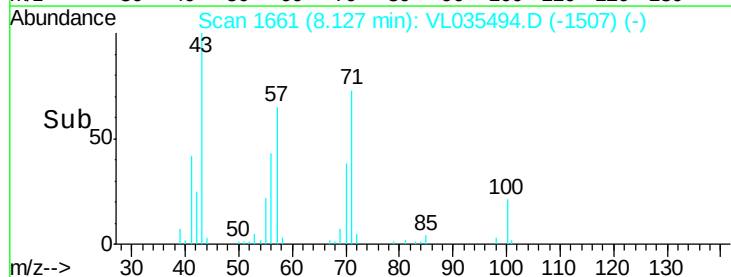
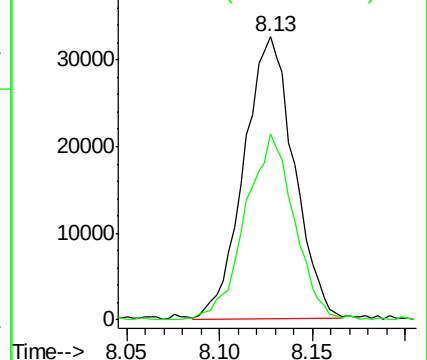
43 100

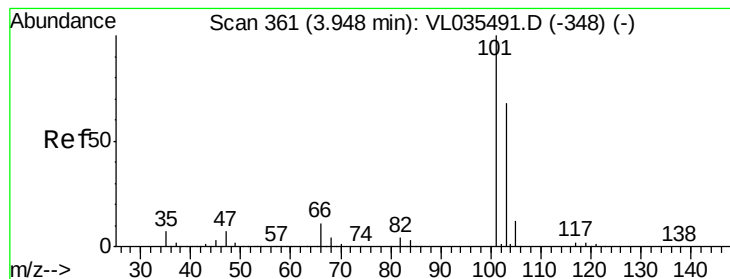
57 64.6 51.4 77.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.499 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

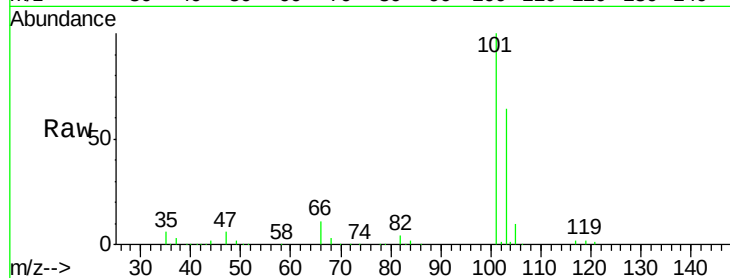
VSTDIC0.5

Tot Ion:101 Resp: 148634

Ion Ratio Lower Upper

101 100

103 64.3 54.4 81.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.94

120000

100000

80000

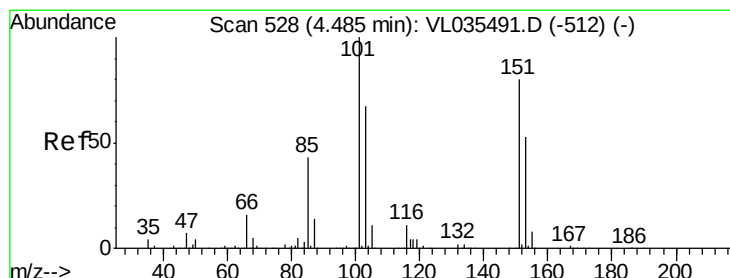
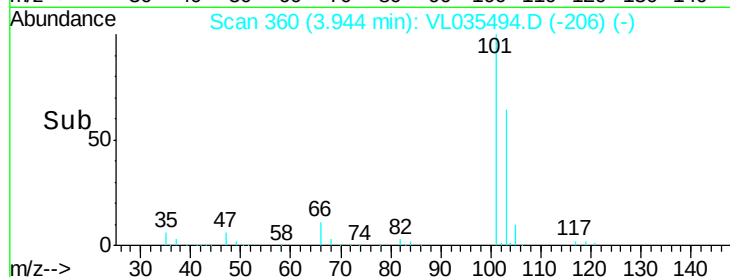
60000

40000

20000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.496 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.00 min

Lab File: VL035494.D

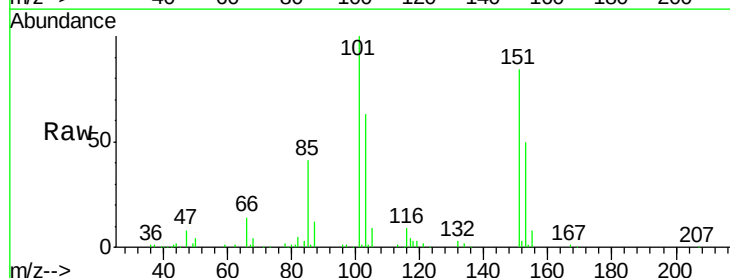
Acq: 23 Aug 2020 10:09

Tgt Ion:101 Resp: 110147

Ion Ratio Lower Upper

101 100

151 81.7 64.1 96.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.48

80000

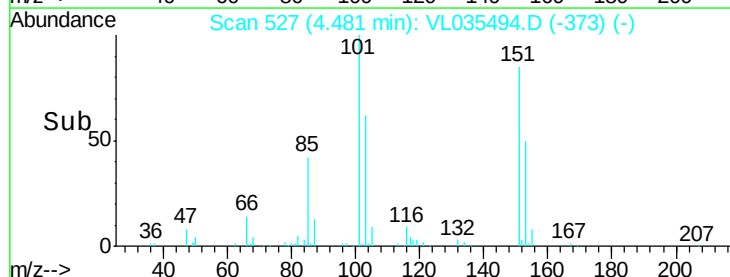
60000

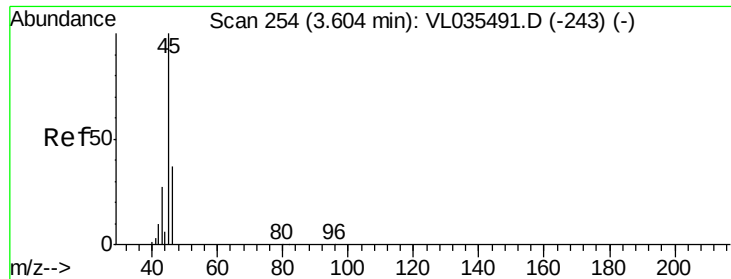
40000

20000

0

Time-->





#13

Ethanol

Concen: 0.360 ppbv m

RT: 3.61 min Scan# 255

Delta R.T. 0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

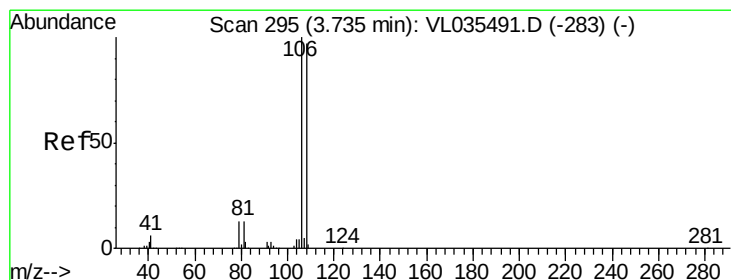
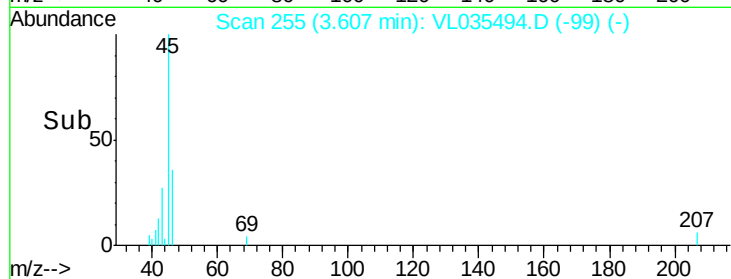
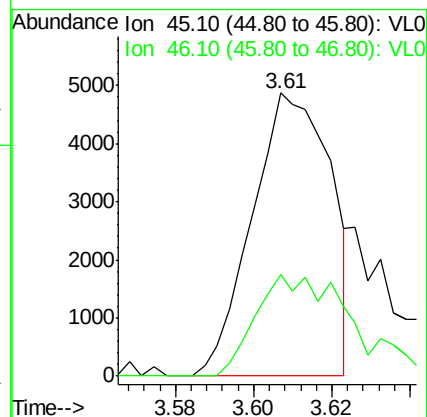
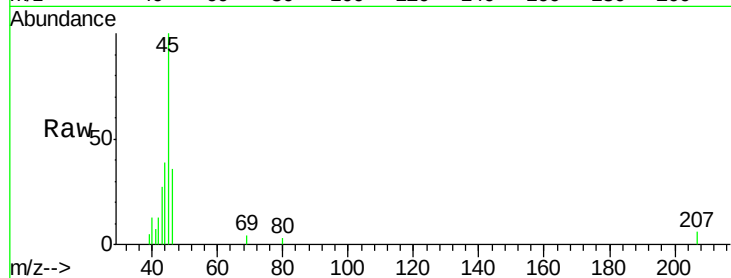
VSTDIC0.5

Tot Ion: 45 Resp: 6812

Ion Ratio Lower Upper

45 100

46 46.7 14.4 57.6



#14

Bromoethene

Concen: 0.452 ppbv

RT: 3.74 min Scan# 295

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

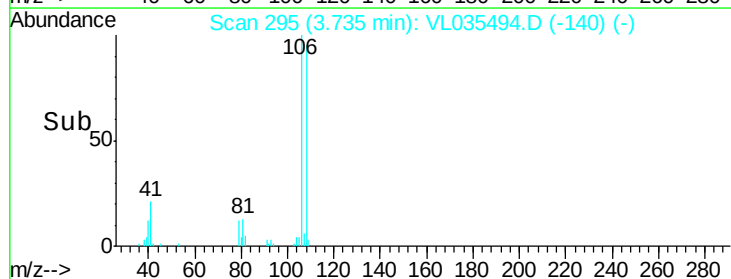
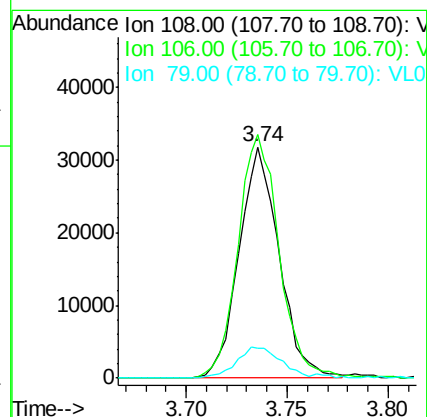
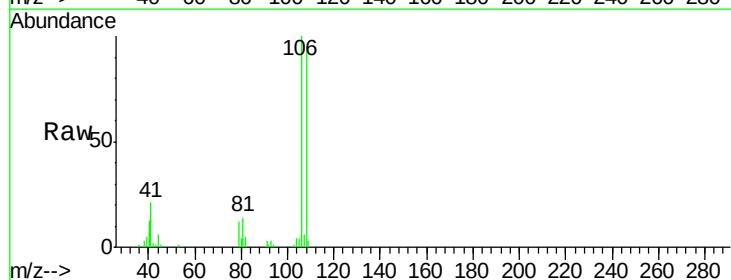
Tgt Ion: 108 Resp: 44372

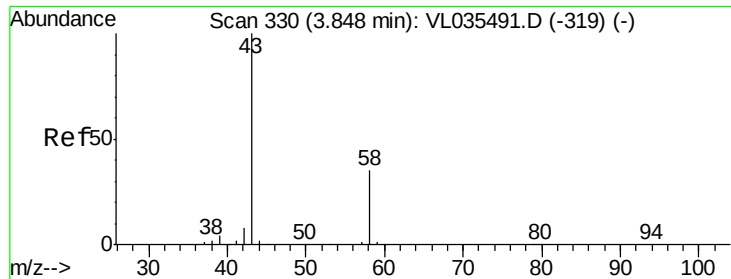
Ion Ratio Lower Upper

108 100

106 108.5 83.6 125.4

79 15.5 10.7 16.1





#15

Acetone

Concen: 0.513 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

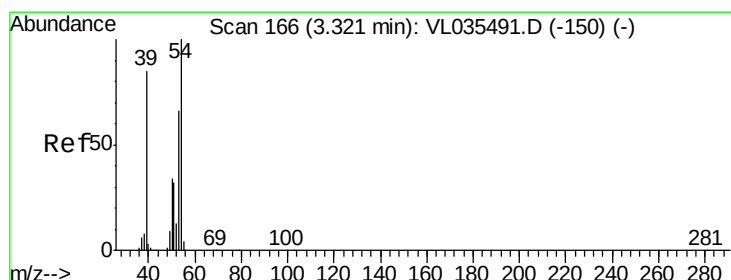
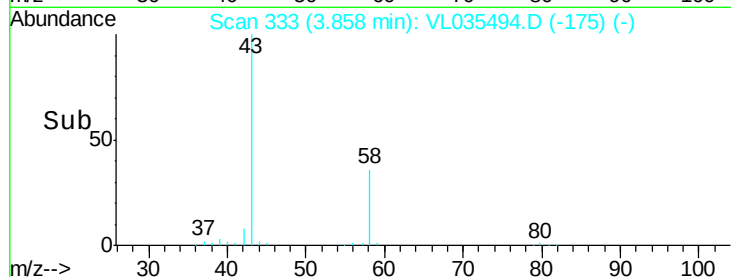
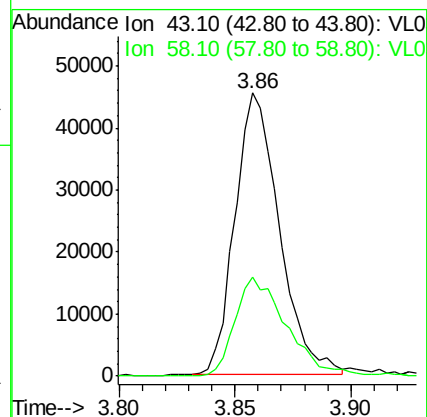
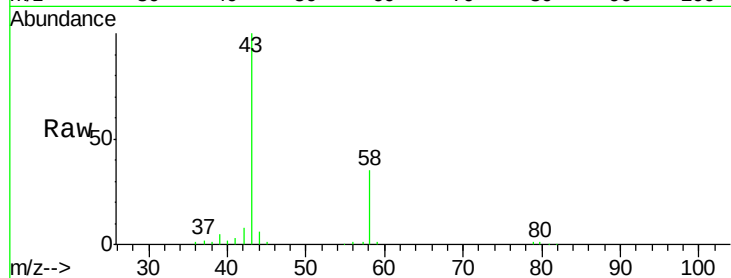
VSTDIC0.5

Tot Ion: 43 Resp: 60503

Ion Ratio Lower Upper

43 100

58 41.0 27.8 41.6



#16

1,3-Butadiene

Concen: 0.458 ppbv

RT: 3.32 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL035494.D

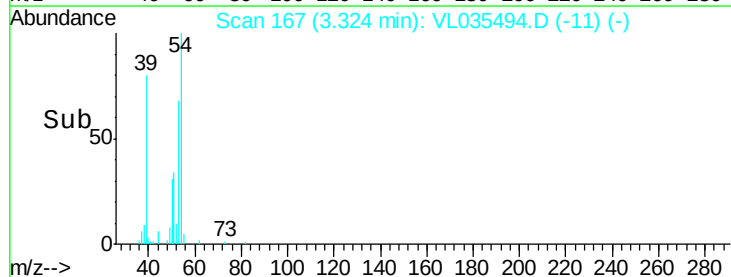
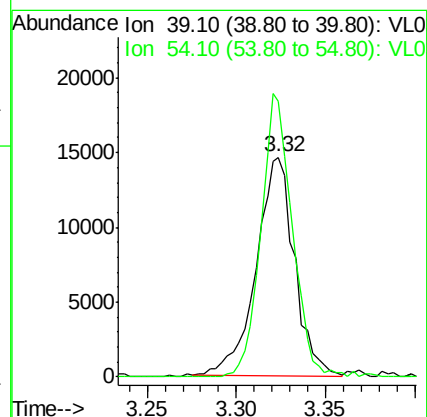
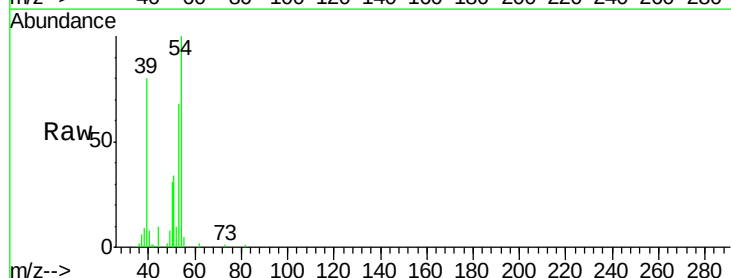
Acq: 23 Aug 2020 10:09

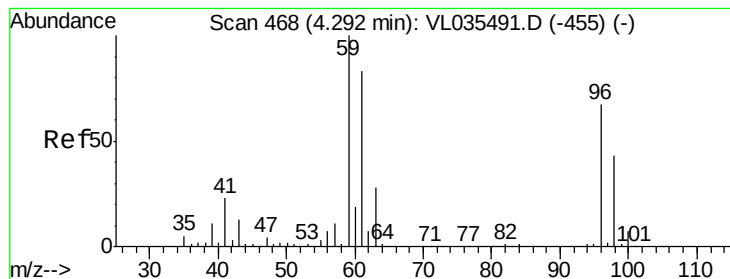
Tgt Ion: 39 Resp: 21899

Ion Ratio Lower Upper

39 100

54 107.4 89.3 133.9





#17

tert-Butyl alcohol

Concen: 0.470 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

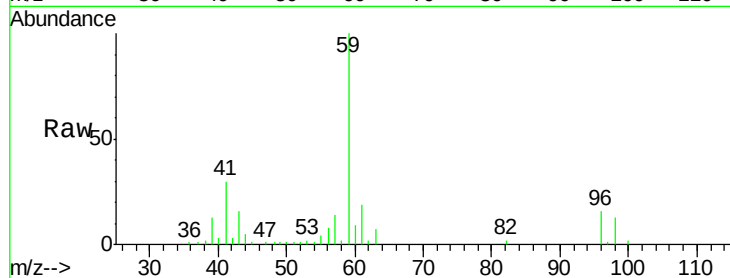
VSTDIC0.5

Tot Ion: 59 Resp: 71689

Ion Ratio Lower Upper

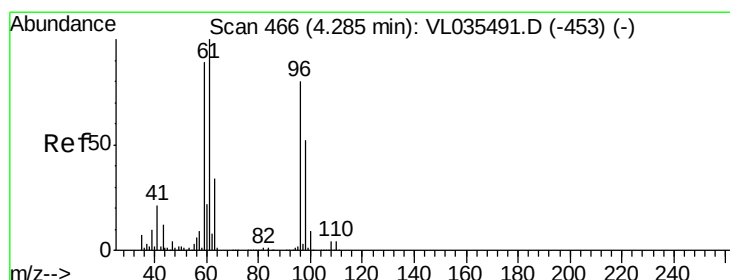
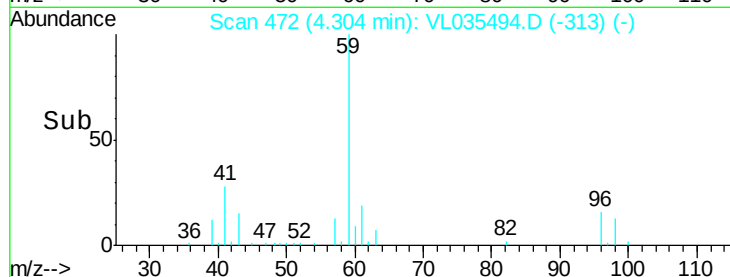
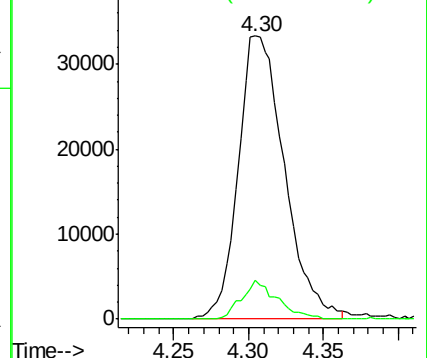
59 100

57 10.6 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.466 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

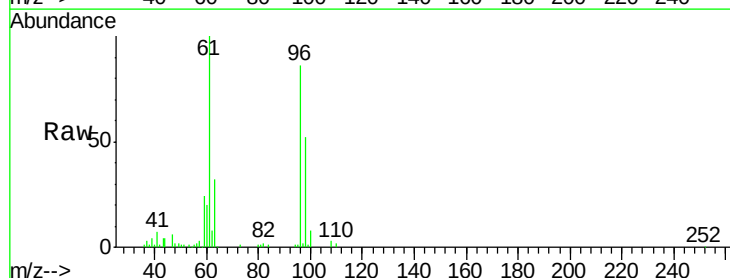
Tgt Ion: 96 Resp: 45722

Ion Ratio Lower Upper

96 100

61 116.0 99.9 149.9

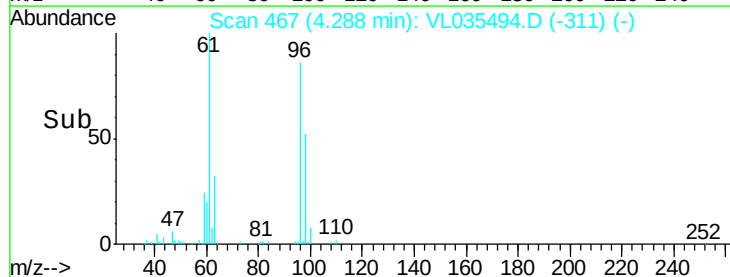
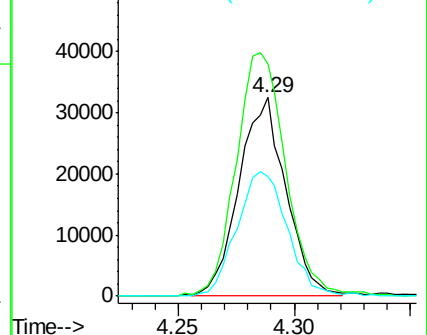
98 60.2 52.2 78.4

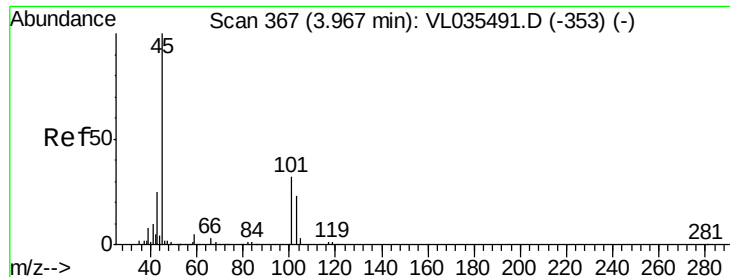


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.456 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

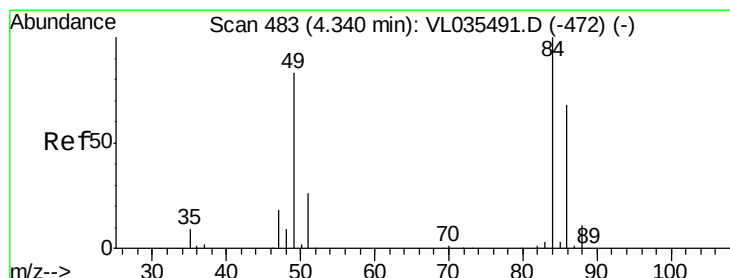
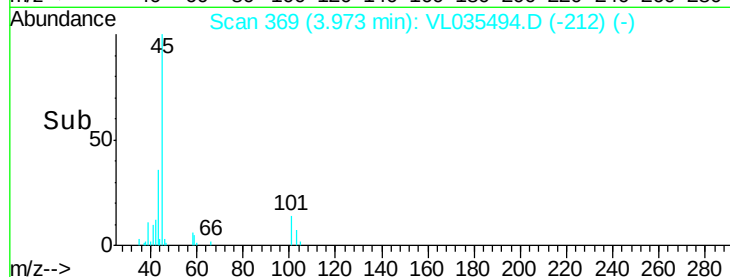
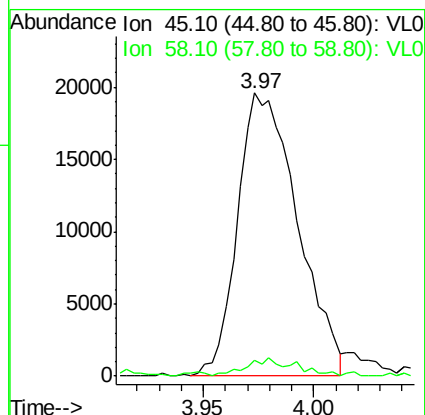
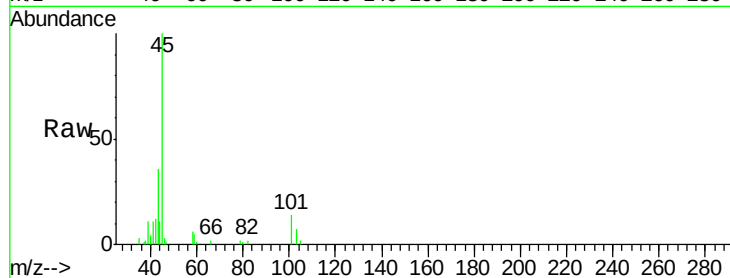
VSTDIC0.5

Tot Ion: 45 Resp: 37067

Ion Ratio Lower Upper

45 100

58 5.9 1.8 2.8#



#20

Methylene Chloride

Concen: 0.849 ppbv m

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Tgt Ion: 84 Resp: 80801

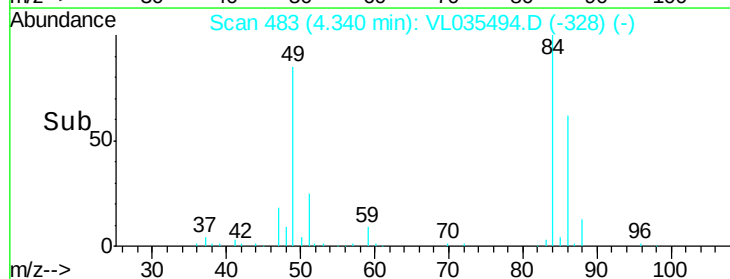
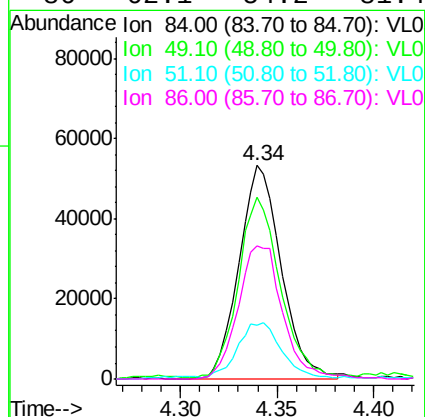
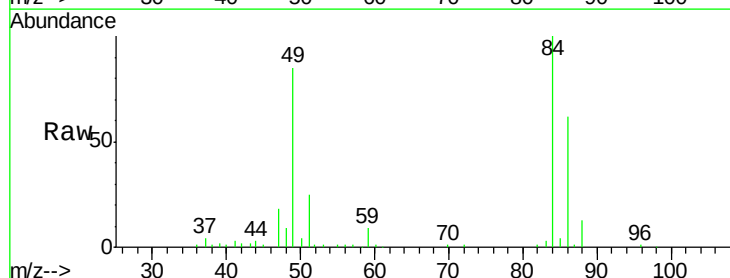
Ion Ratio Lower Upper

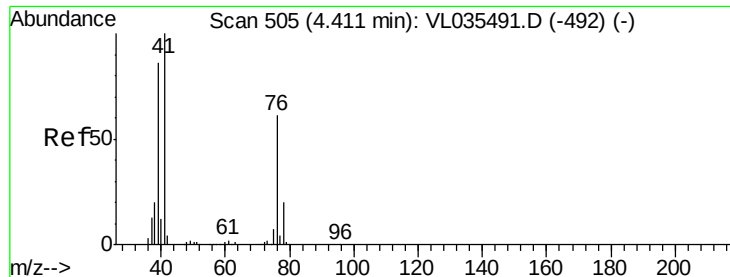
84 100

49 85.0 66.3 99.5

51 25.4 21.1 31.7

86 62.1 54.2 81.4





#21

Allvl Chloride

Concen: 0.450 ppbv m

RT: 4.41 min Scan# 504

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

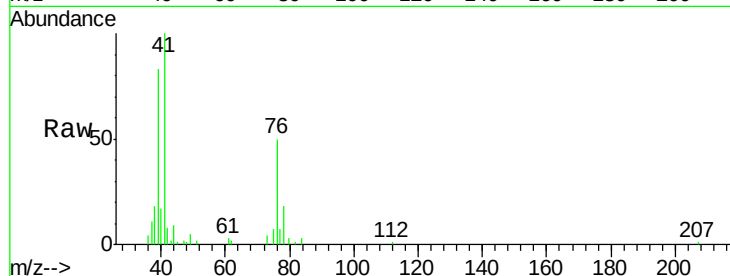
Tot Ion: 41 Resp: 26952

Ion Ratio Lower Upper

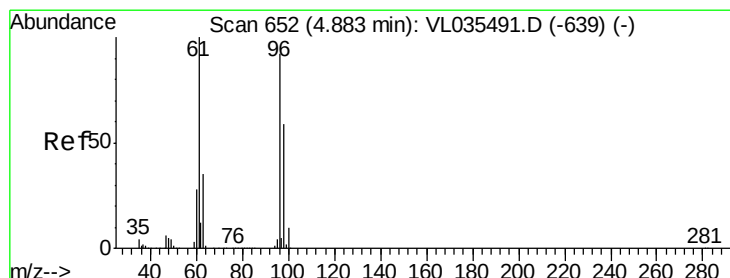
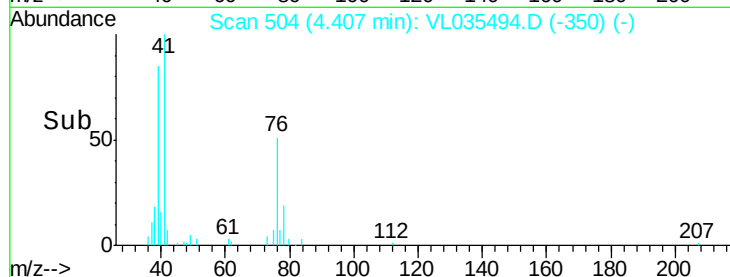
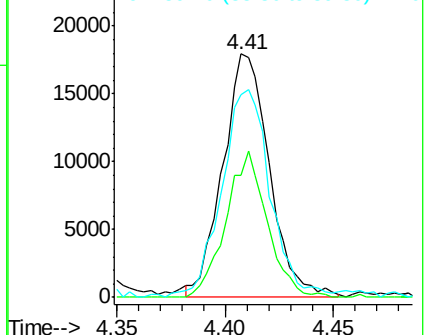
41 100

76 52.9 47.3 70.9

39 90.2 69.0 103.4



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.472 ppbv

RT: 4.89 min Scan# 653

Delta R.T. 0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

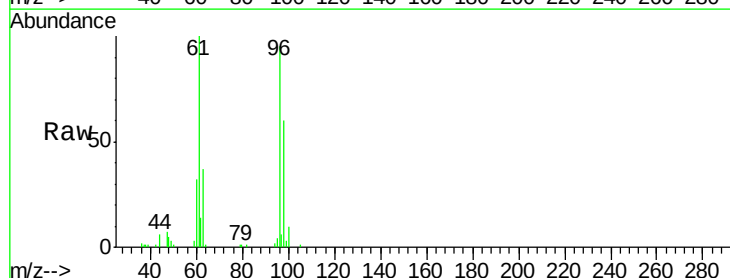
Tgt Ion: 96 Resp: 49356

Ion Ratio Lower Upper

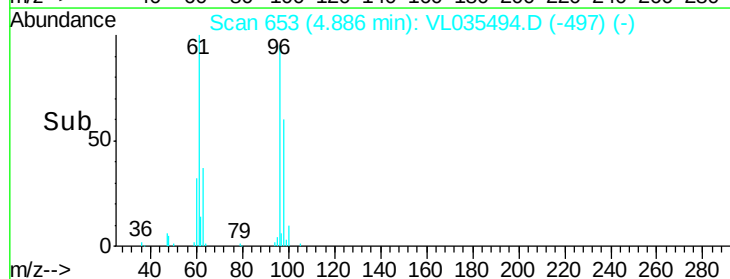
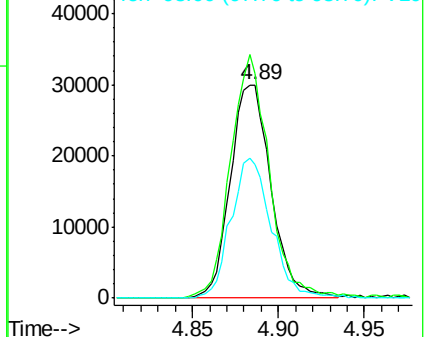
96 100

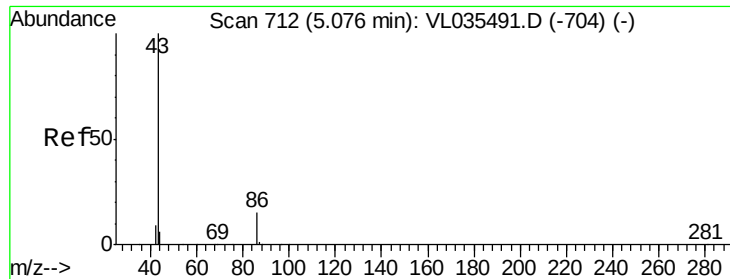
61 104.3 86.5 129.7

98 62.5 51.4 77.2



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.391 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 65864

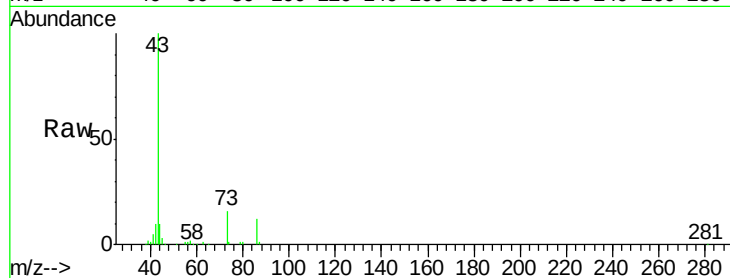
Ion Ratio Lower Upper

43 100

86 12.5 10.9 16.3

42 9.8 7.8 11.8

44 6.9 4.4 6.6#

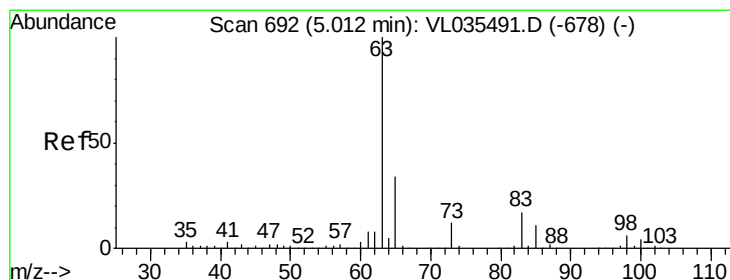
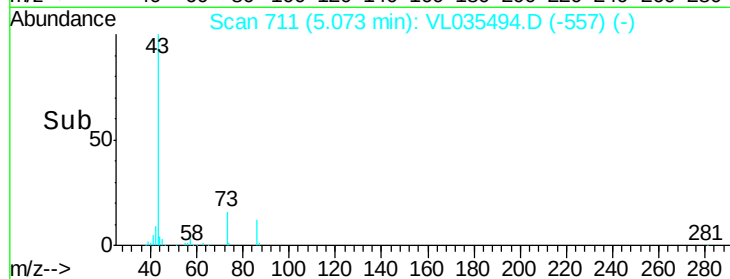
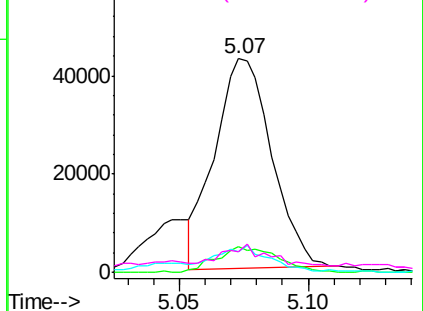


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.476 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

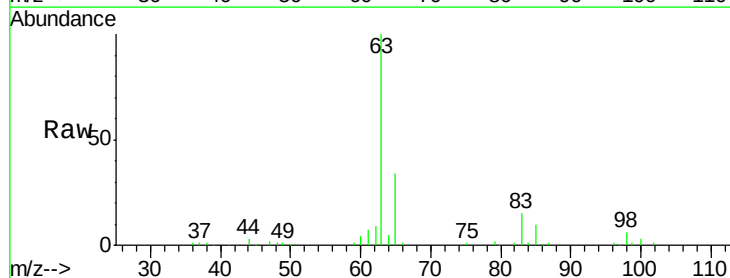
Tgt Ion: 63 Resp: 79986

Ion Ratio Lower Upper

63 100

98 5.5 3.1 9.4

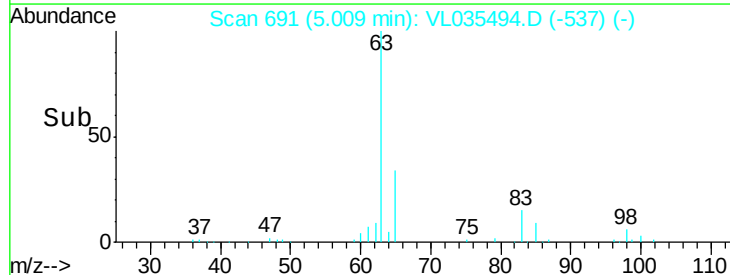
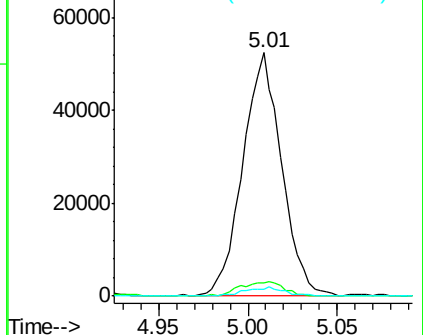
100 2.9 2.0 6.0

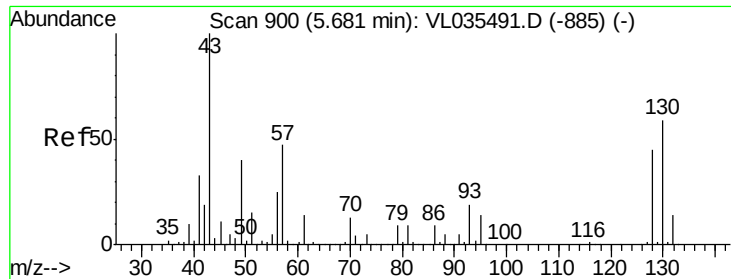


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

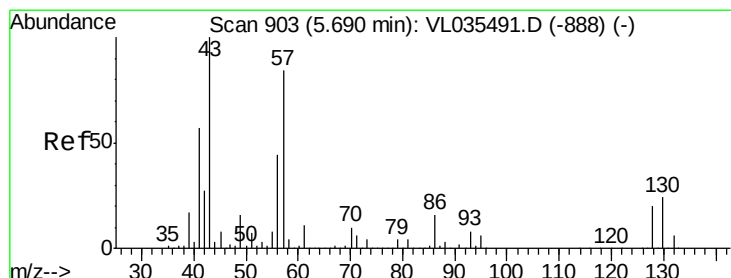
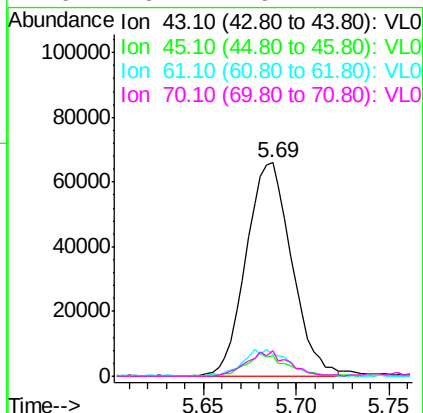
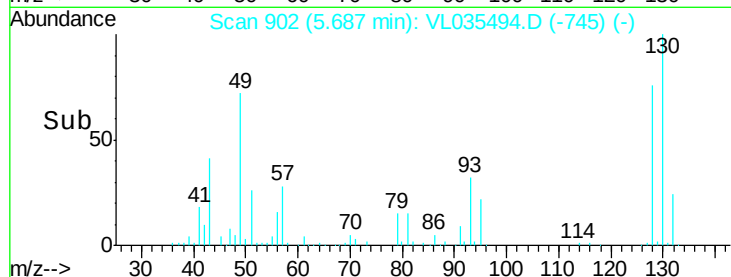
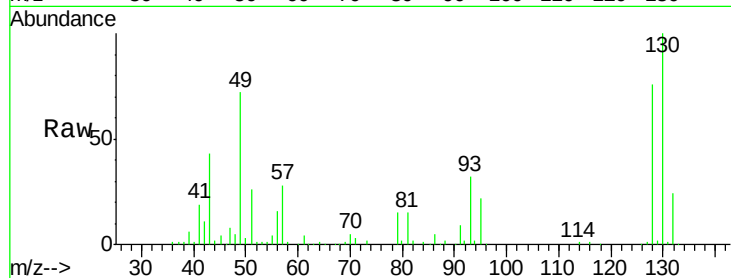




#25
Ethyl Acetate
Concen: 0.492 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL035494.D
Acq: 23 Aug 2020 10:09

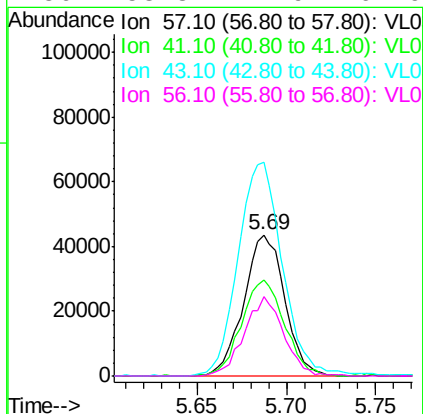
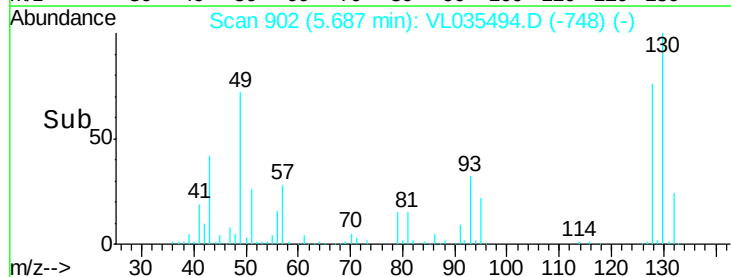
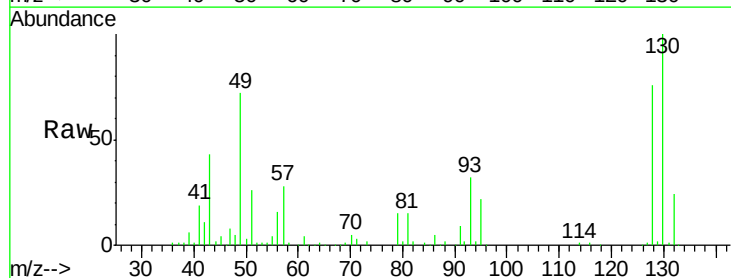
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

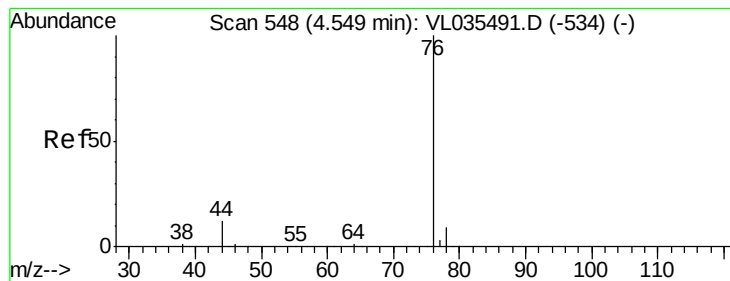
Tot Ion:	43	Resp:	112937
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.4	12.6
61	12.4	10.6	16.0
70	10.7	9.4	14.2



#26
Hexane
Concen: 0.542 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL035494.D
Acq: 23 Aug 2020 10:09

Tgt Ion:	57	Resp:	70202
Ion	Ratio	Lower	Upper
57	100		
41	72.3	56.7	85.1
43	165.1	141.9	212.9
56	53.8	41.9	62.9





#27

Carbon Disulfide

Concen: 0.395 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

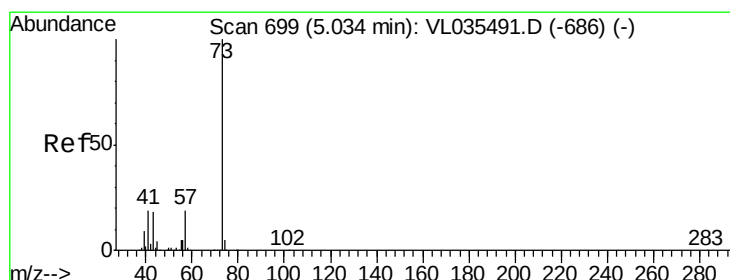
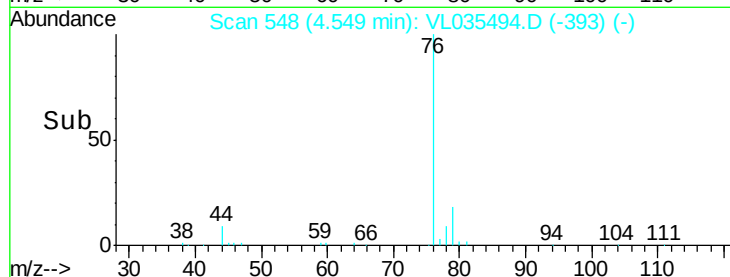
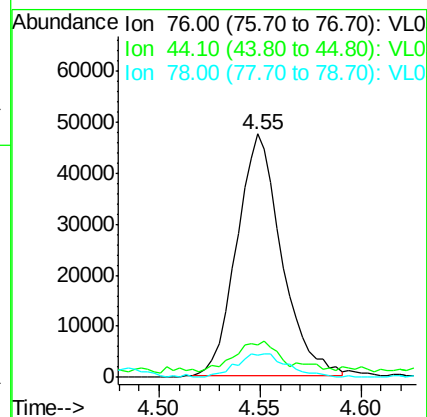
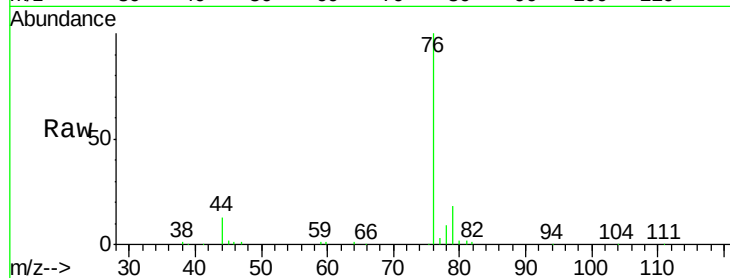
MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 76 Resp: 73941

Ion	Ratio	Lower	Upper
76	100		
44	17.3	9.2	13.8#
78	11.3	7.8	11.8



#28

Methyl tert-Butyl Ether

Concen: 0.435 ppbv

RT: 5.05 min Scan# 703

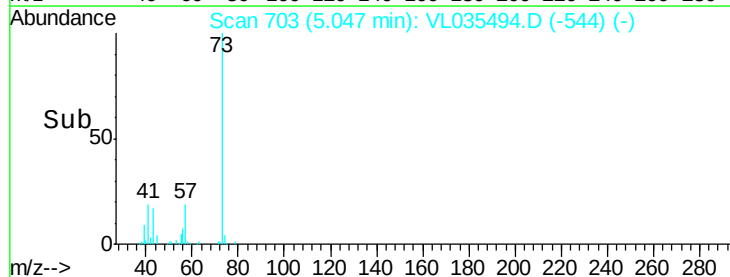
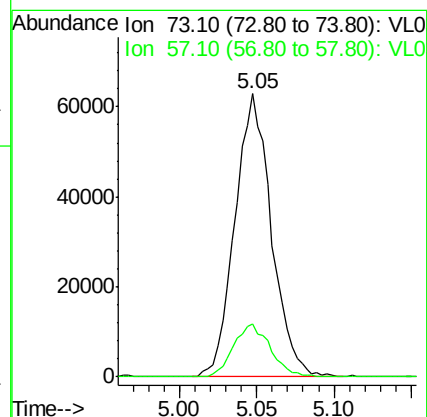
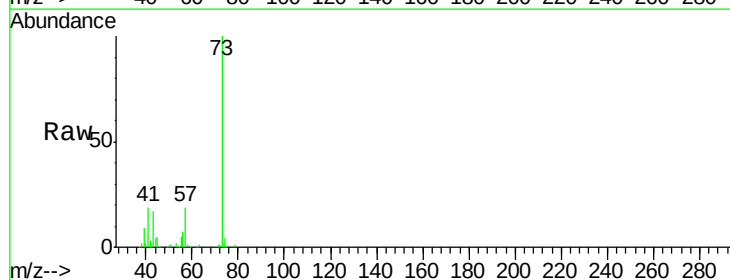
Delta R.T. 0.01 min

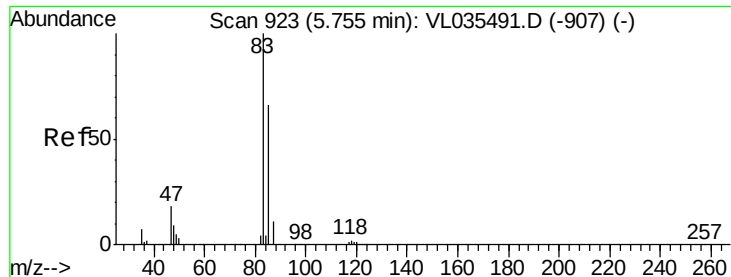
Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Tgt Ion: 73 Resp: 102955

Ion	Ratio	Lower	Upper
73	100		
57	18.9	15.1	22.7

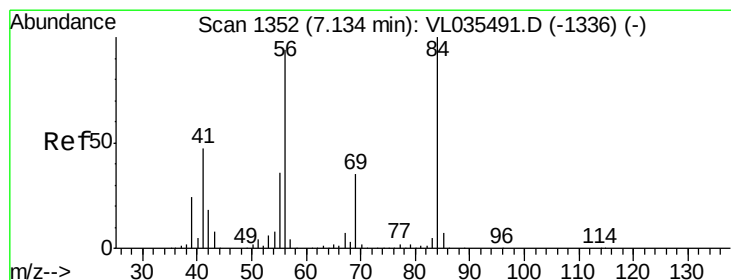
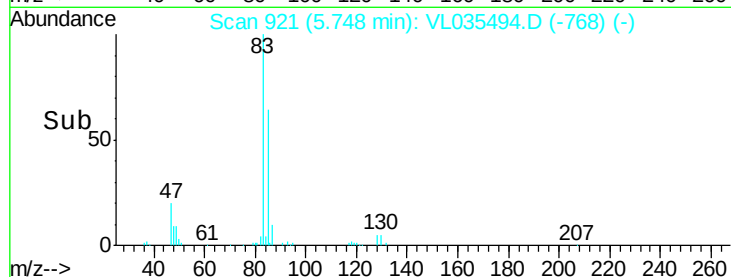
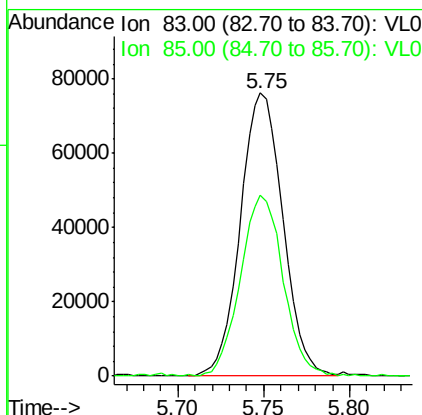
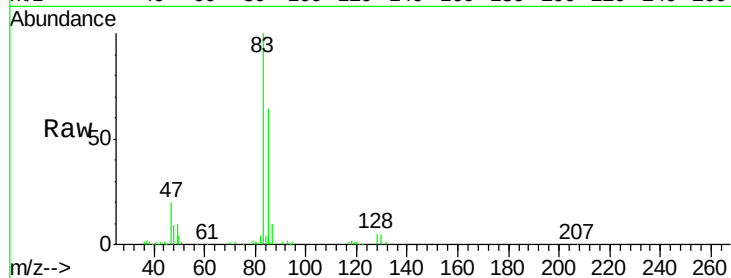




#29
Chloroform
Concen: 0.503 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.01 min
Lab File: VL035494.D
Acq: 23 Aug 2020 10:09

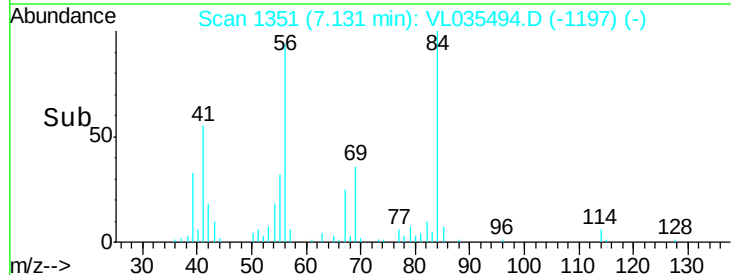
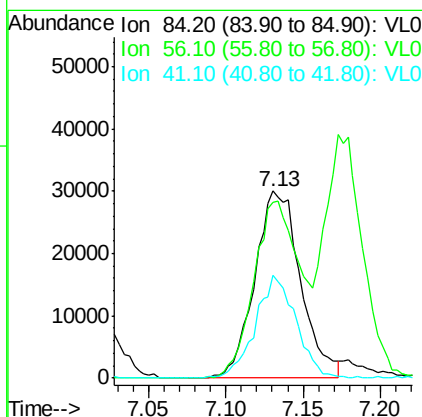
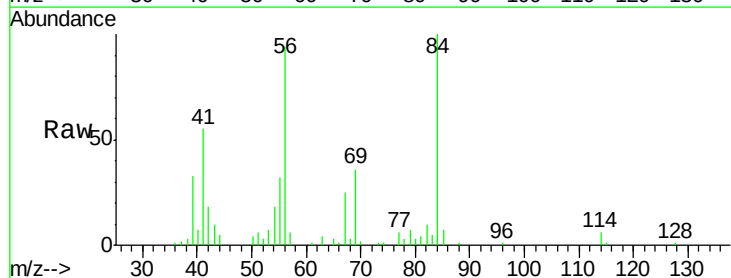
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

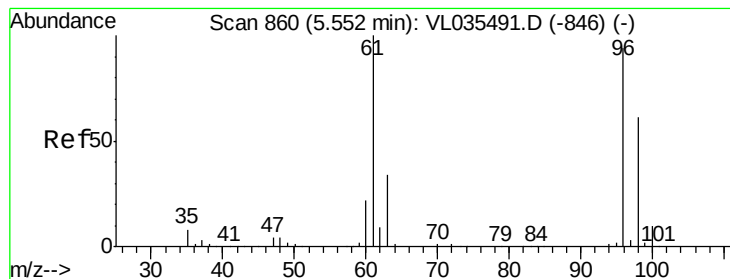
Tot Ion: 83 Resp: 130811
Ion Ratio Lower Upper
83 100
85 63.3 53.1 79.7



#30
Cyclohexane
Concen: 0.430 ppbv m
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL035494.D
Acq: 23 Aug 2020 10:09

Tgt Ion: 84 Resp: 61742
Ion Ratio Lower Upper
84 100
56 87.0 79.9 119.9
41 48.6 37.6 56.4





#31

cis-1,2-Dichloroethene

Concen: 0.430 ppbv

RT: 5.55 min Scan# 859

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

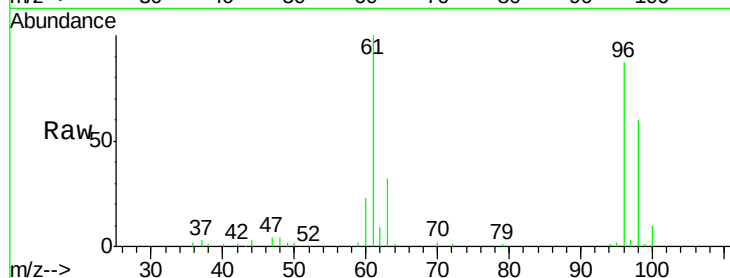
Tot Ion: 61 Resp: 58611

Ion Ratio Lower Upper

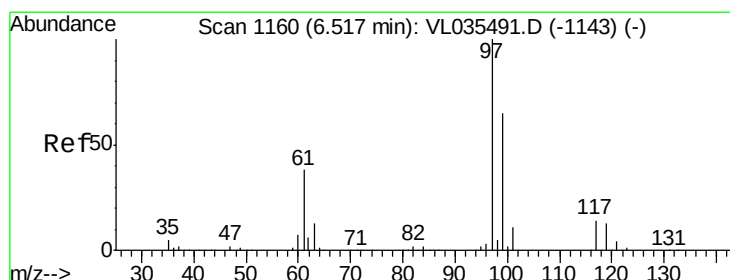
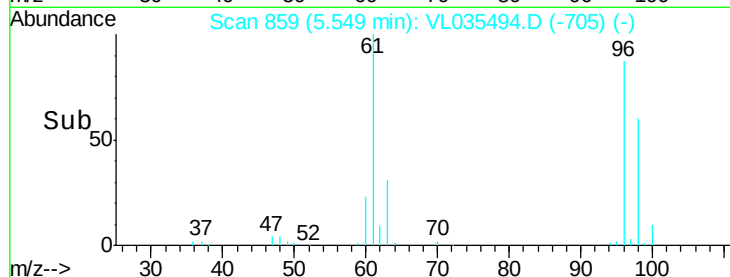
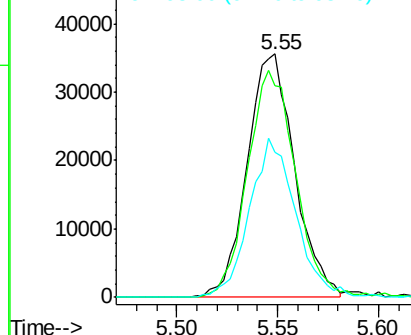
61 100

96 86.8 75.5 113.3

98 59.8 48.9 73.3



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.459 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

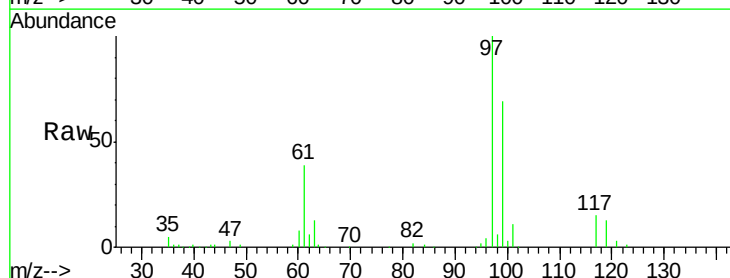
Tgt Ion: 97 Resp: 111835

Ion Ratio Lower Upper

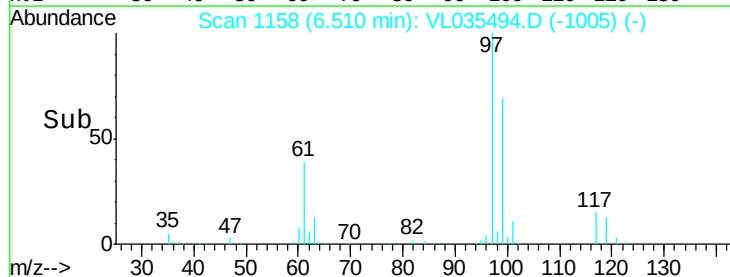
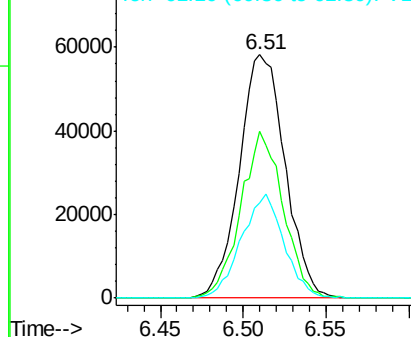
97 100

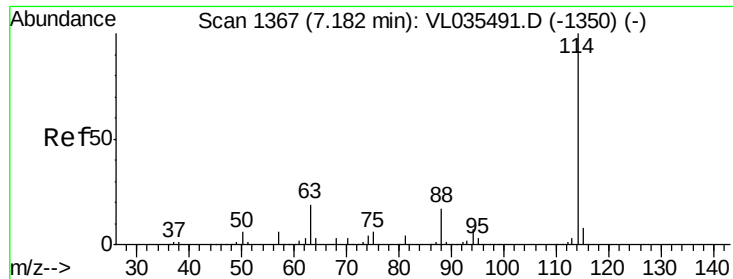
99 63.4 52.7 79.1

61 39.8 30.2 45.2



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

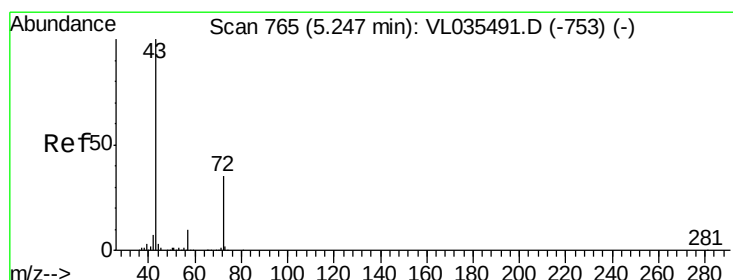
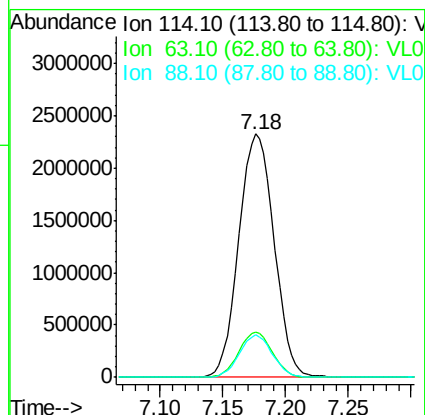
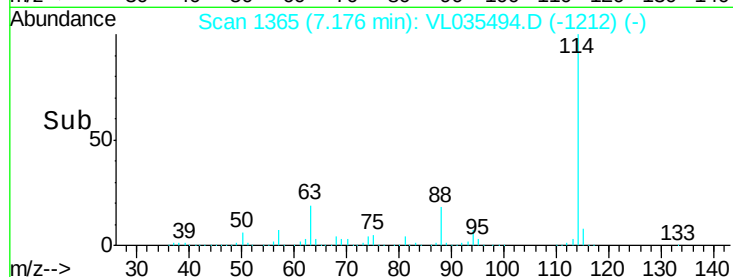
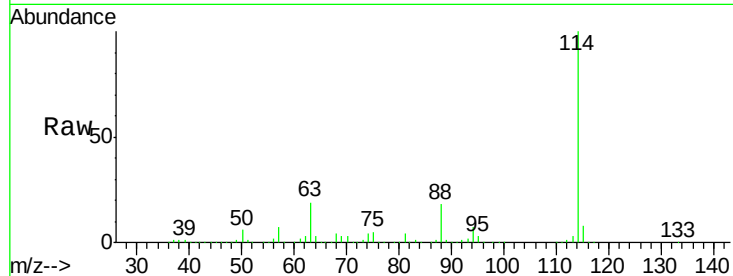




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL035494.D
 Acq: 23 Aug 2020 10:09

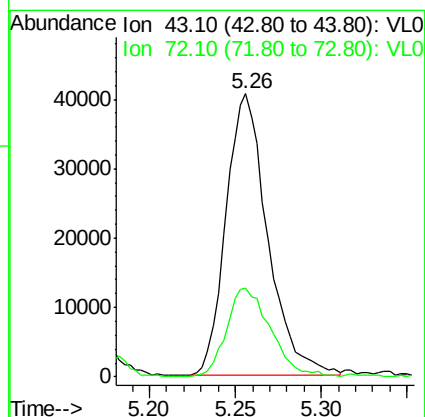
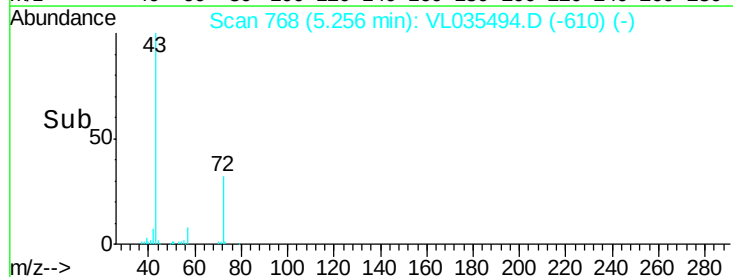
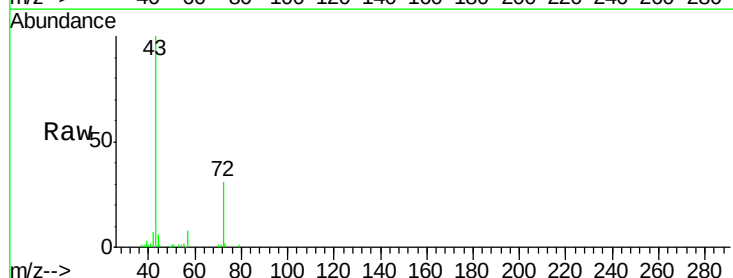
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

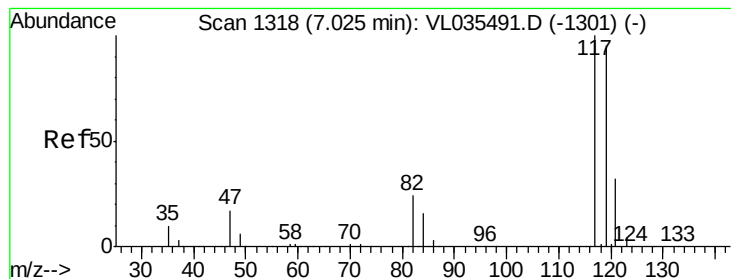
Tot Ion:114 Resp: 4556785
 Ion Ratio Lower Upper
 114 100
 63 17.8 14.3 21.5
 88 16.4 13.2 19.8



#34
 2-Butanone
 Concen: 0.452 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL035494.D
 Acq: 23 Aug 2020 10:09

Tgt Ion: 43 Resp: 68776
 Ion Ratio Lower Upper
 43 100
 72 33.2 27.6 41.4





#35

Carbon Tetrachloride

Concen: 0.465 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

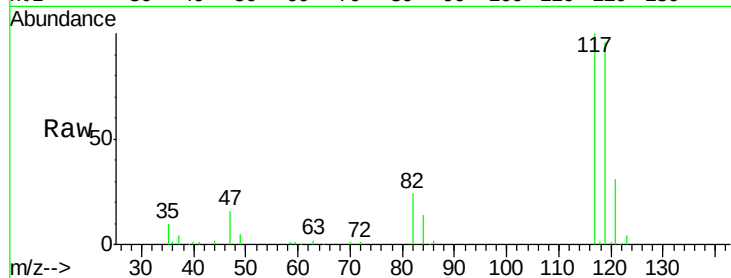
Tot Ion:117 Resp: 112738

Ion Ratio Lower Upper

117 100

119 95.9 75.6 113.4

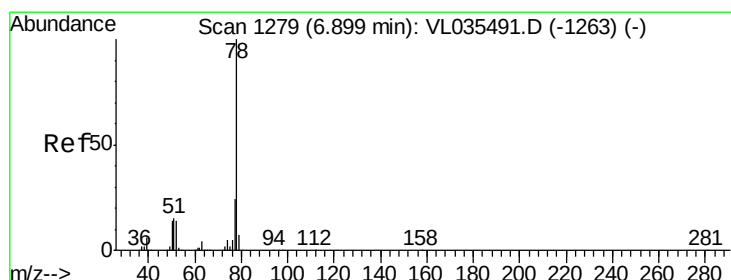
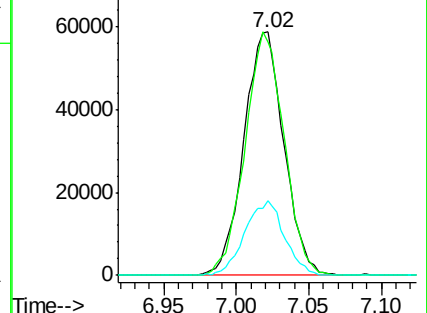
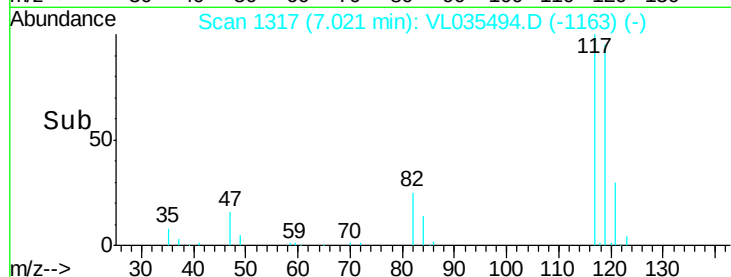
121 30.6 25.6 38.4



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: 0.459 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

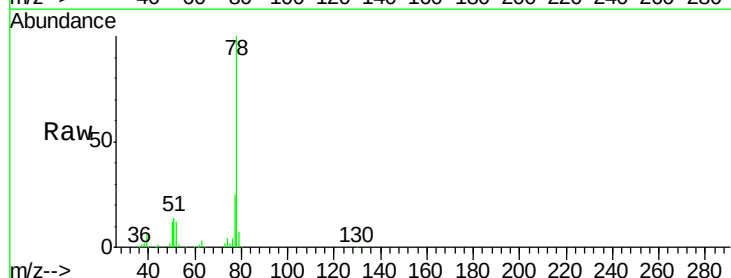
Tgt Ion: 78 Resp: 153625

Ion Ratio Lower Upper

78 100

77 24.8 19.2 28.8

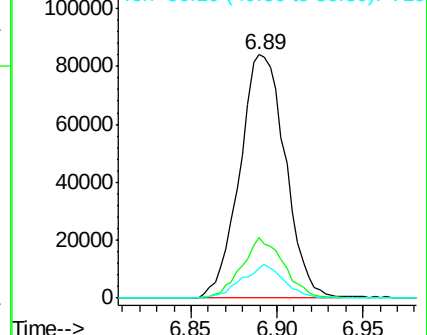
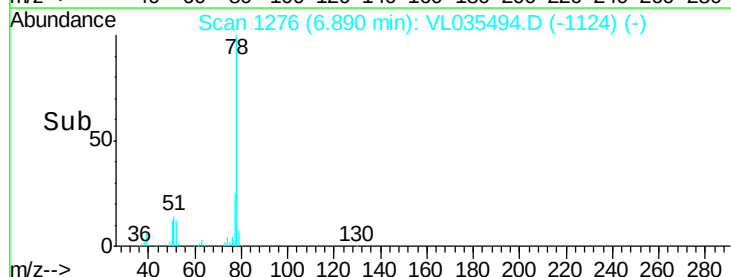
50 12.2 11.0 16.4

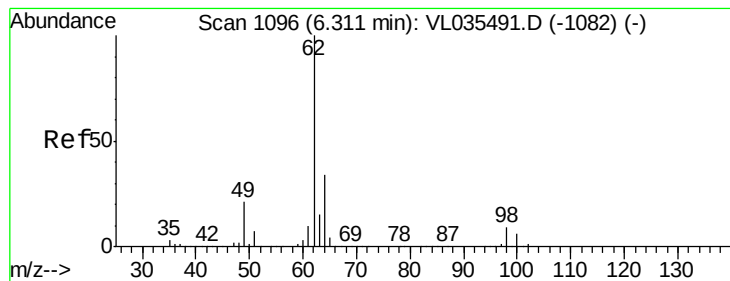


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.502 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

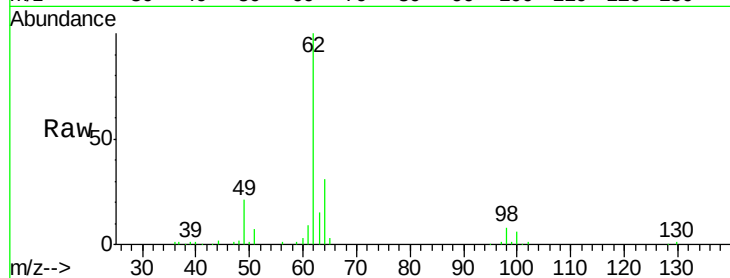
VSTDIC0.5

Tot Ion: 62 Resp: 76655

Ion Ratio Lower Upper

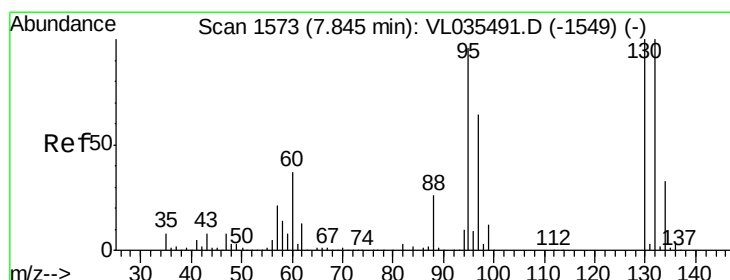
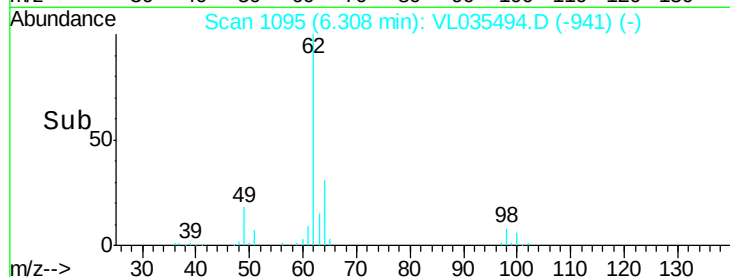
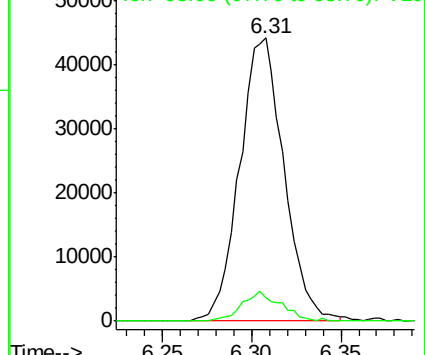
62 100

98 9.1 7.4 11.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.460 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Tgt Ion:130 Resp: 85616

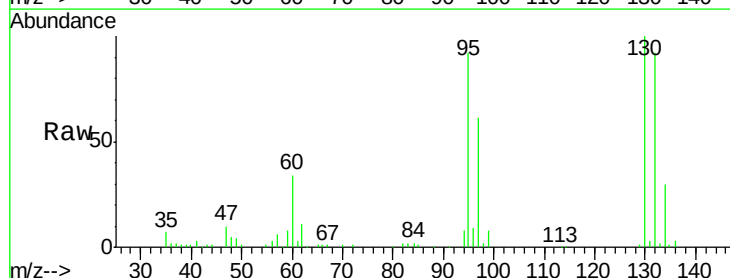
Ion Ratio Lower Upper

130 100

95 92.4 76.9 115.3

132 92.2 80.2 120.4

97 60.6 51.2 76.8

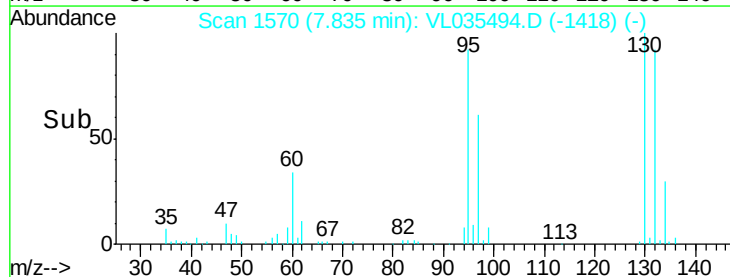
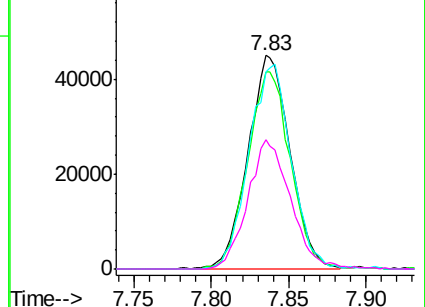


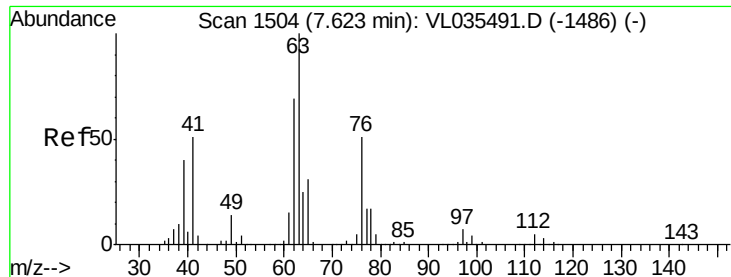
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

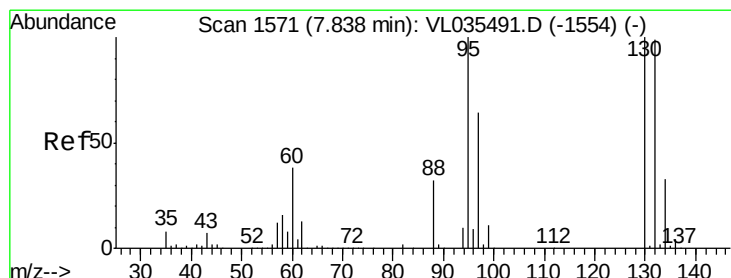
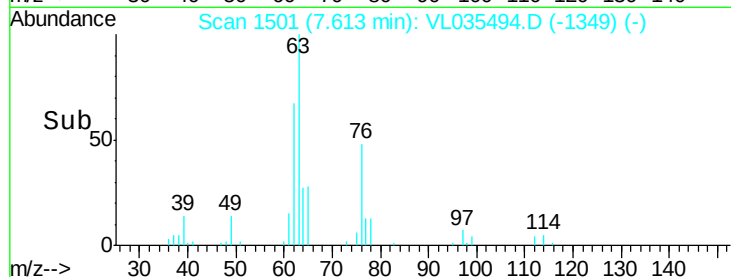
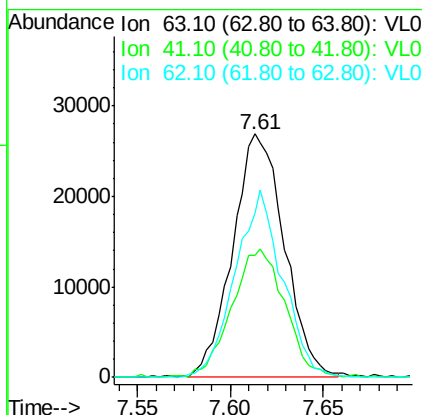
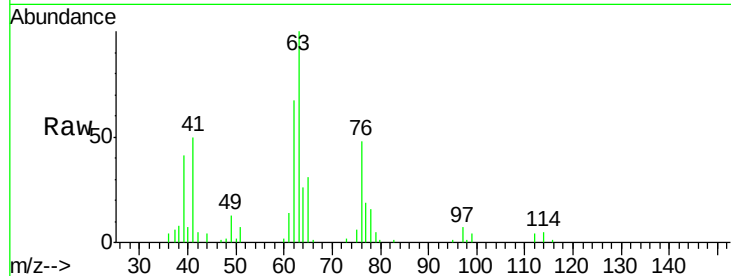




#39
 1,2-Dichloropropane
 Concen: 0.471 ppbv
 RT: 7.61 min Scan# 1501
 Delta R.T. -0.01 min
 Lab File: VL035494.D
 Acq: 23 Aug 2020 10:09

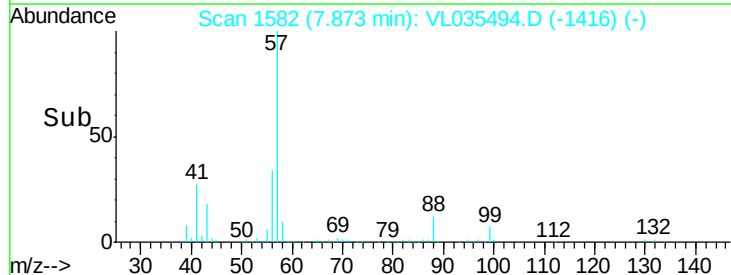
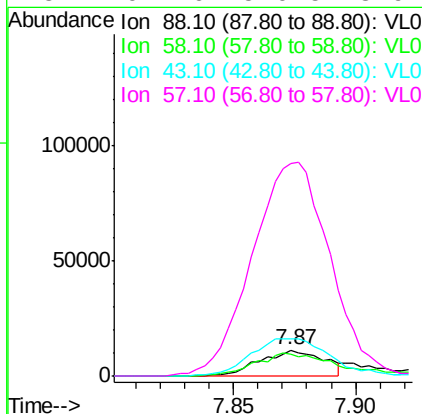
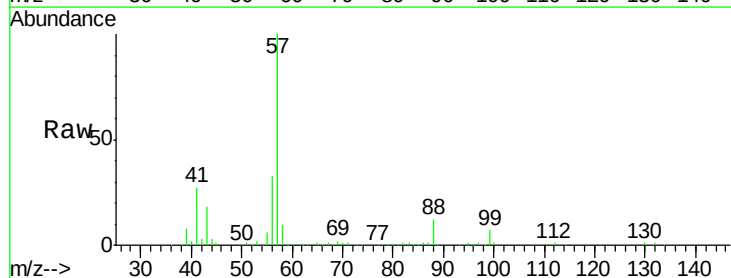
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

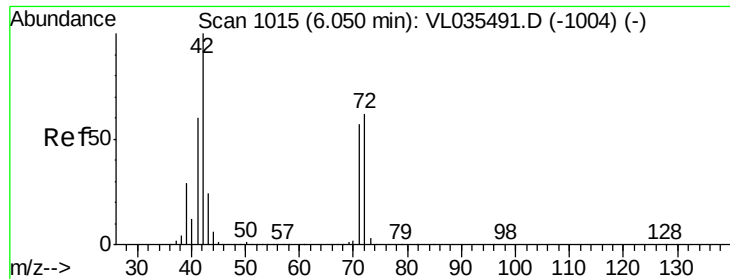
Tot Ion: 63 Resp: 51970
 Ion Ratio Lower Upper
 63 100
 41 50.1 40.9 61.3
 62 66.1 55.3 82.9



#40
 1,4-Dioxane
 Concen: 0.339 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. 0.04 min
 Lab File: VL035494.D
 Acq: 23 Aug 2020 10:09

Tgt Ion: 88 Resp: 20368
 Ion Ratio Lower Upper
 88 100
 58 125.1 68.1 102.1#
 43 180.9 101.0 151.4#
 57 1011.0 546.5 819.7#





#41

Tetrahydrofuran

Concen: 0.412 ppbv

RT: 6.07 min Scan# 1022

Delta R.T. 0.02 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

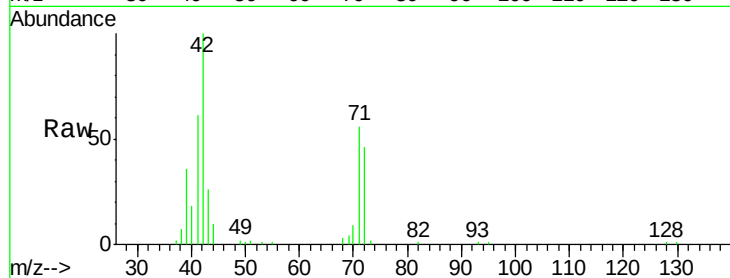
Tot Ion: 42 Resp: 34558

Ion Ratio Lower Upper

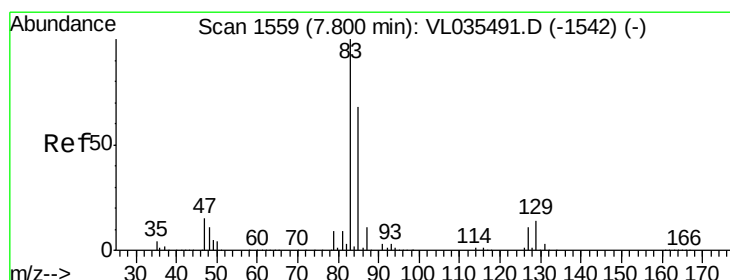
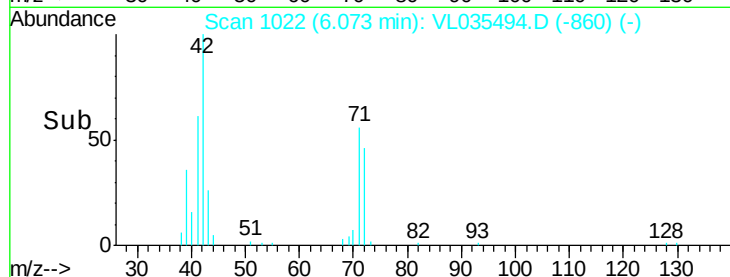
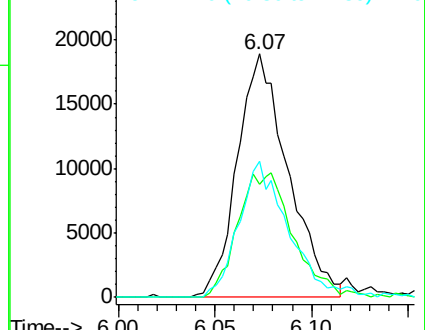
42 100

72 56.4 49.1 73.7

71 55.1 46.7 70.1



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.429 ppbv

RT: 7.79 min Scan# 1557

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

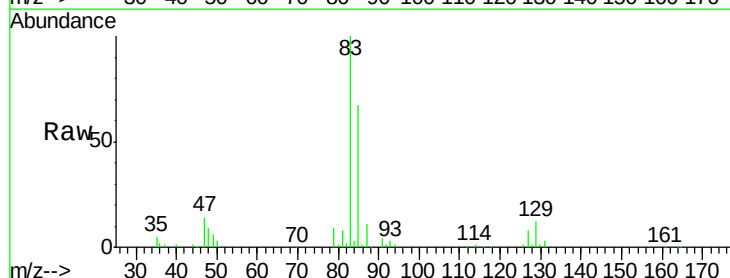
Tgt Ion: 83 Resp: 109709

Ion Ratio Lower Upper

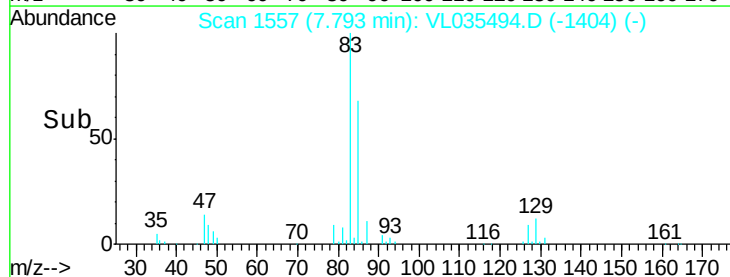
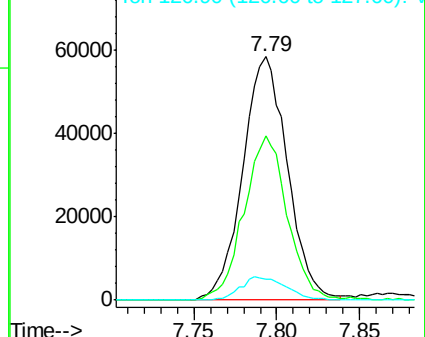
83 100

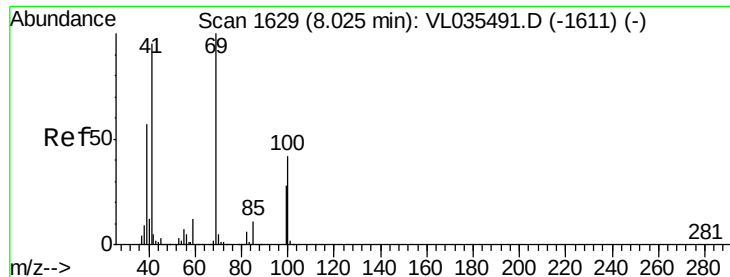
85 67.5 54.8 82.2

127 8.5 8.6 13.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

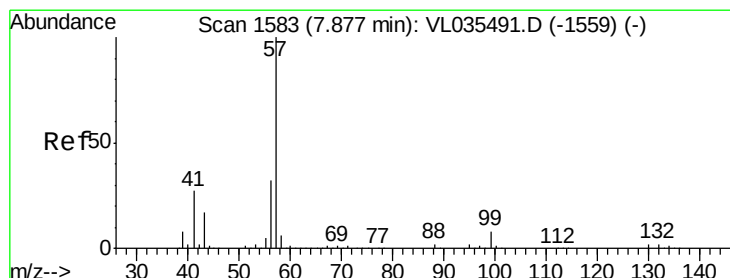
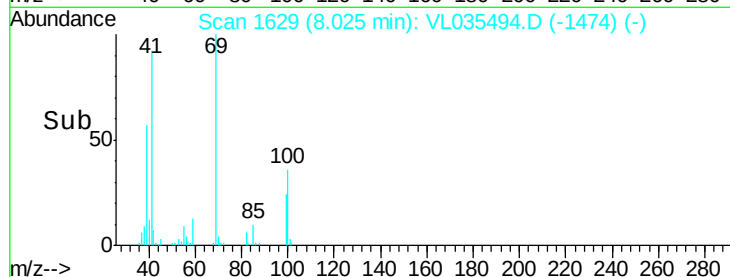
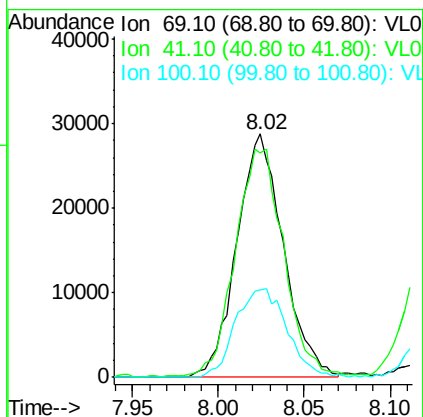
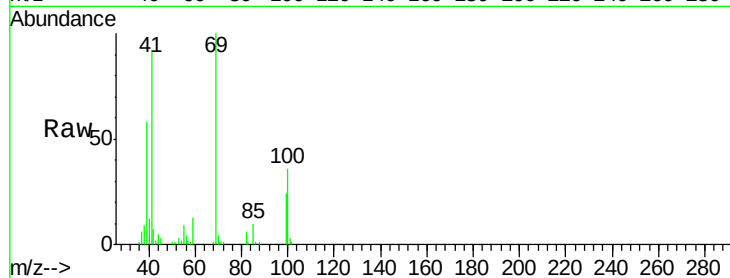




#43
Methyl Methacrylate
Concen: 0.413 ppbv
RT: 8.02 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VL035494.D
Acq: 23 Aug 2020 10:09

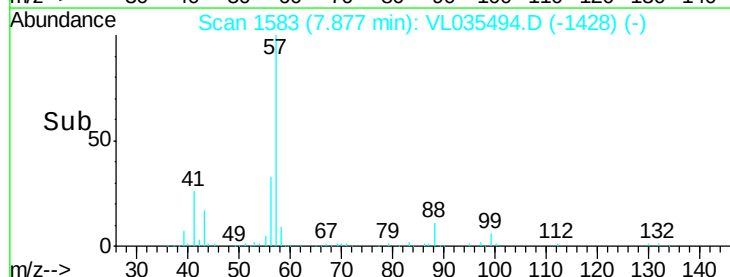
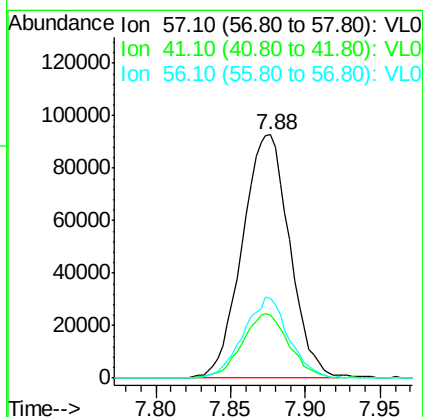
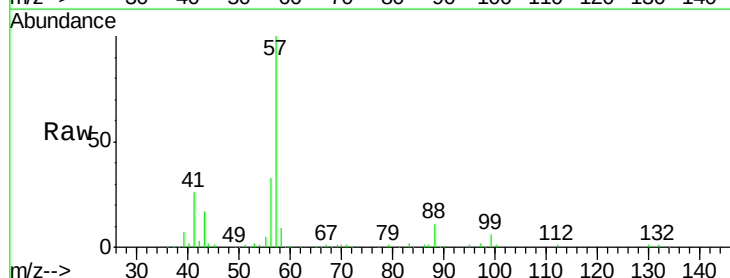
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

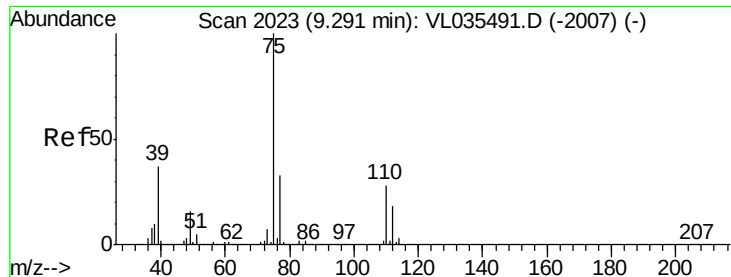
Tot Ion: 69 Resp: 54021
Ion Ratio Lower Upper
69 100
41 98.5 76.1 114.1
100 40.3 34.2 51.4



#44
2,2,4-Trimethylpentane
Concen: 0.468 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VL035494.D
Acq: 23 Aug 2020 10:09

Tgt Ion: 57 Resp: 204465
Ion Ratio Lower Upper
57 100
41 26.2 20.7 31.1
56 31.7 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 0.349 ppbv

RT: 9.28 min Scan# 2020

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

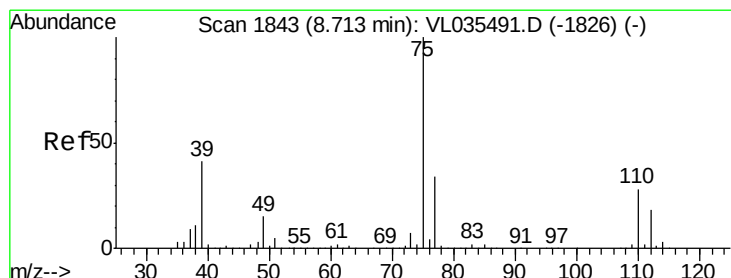
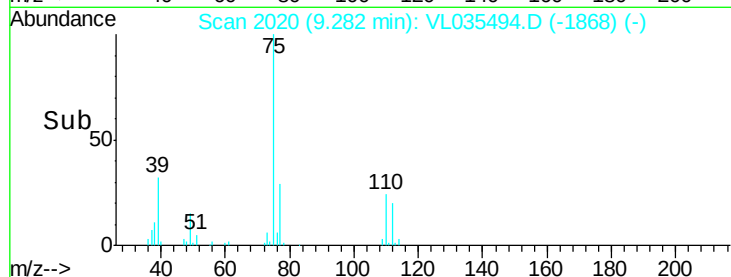
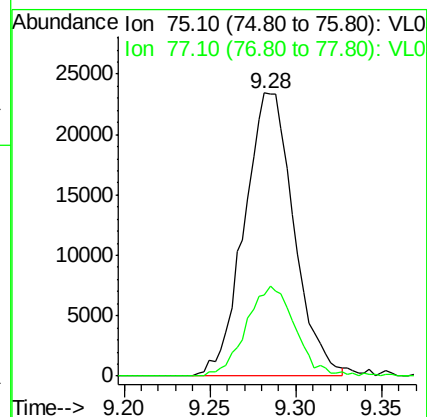
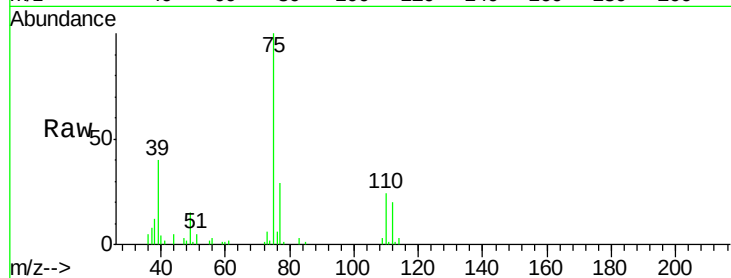
VSTDIC0.5

Tot Ion: 75 Resp: 46969

Ion Ratio Lower Upper

75 100

77 28.6 26.6 39.8



#46

cis-1,3-Dichloropropene

Concen: 0.366 ppbv

RT: 8.71 min Scan# 1841

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

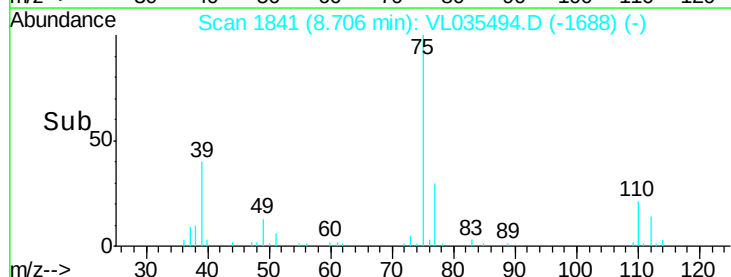
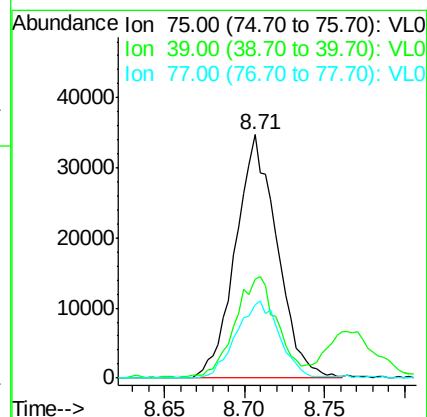
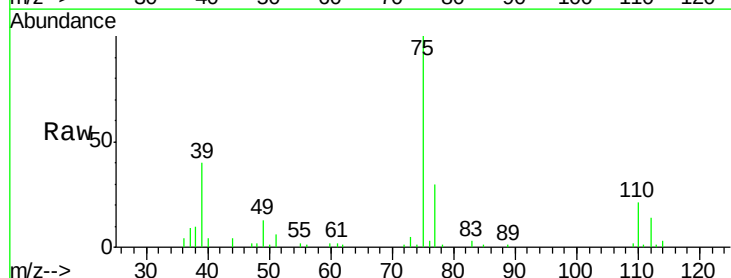
Tgt Ion: 75 Resp: 61377

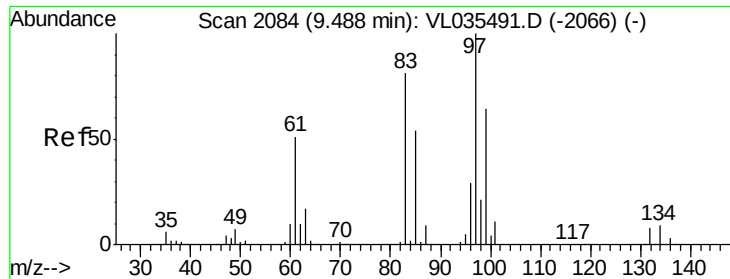
Ion Ratio Lower Upper

75 100

39 39.2 33.2 49.8

77 30.4 27.1 40.7

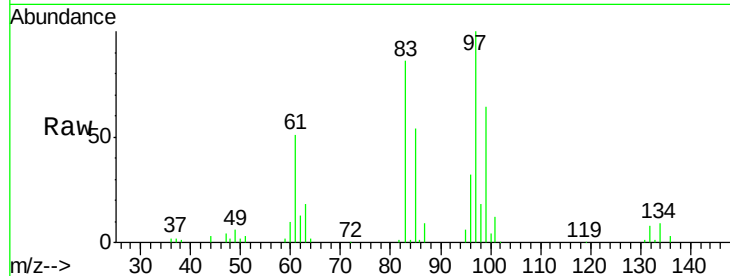




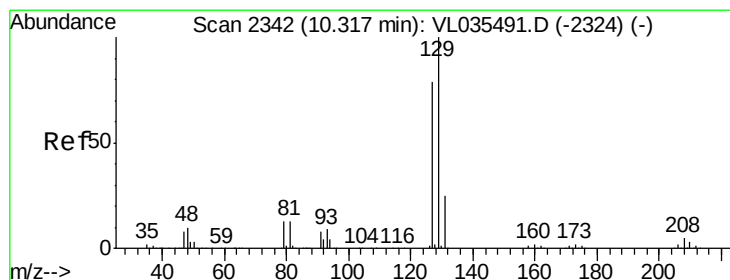
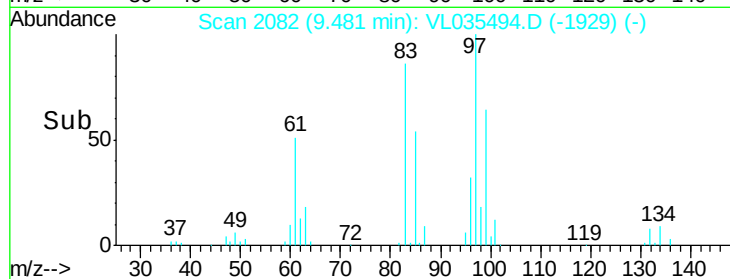
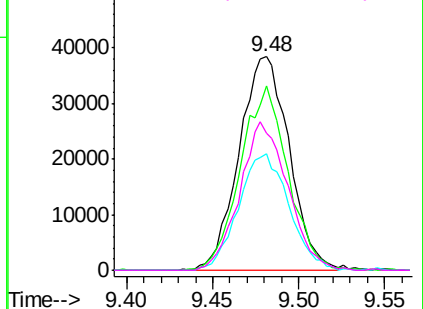
#47
 1,1,2-Trichloroethane
 Concen: 0.473 ppbv
 RT: 9.48 min Scan# 2082
 Delta R.T. -0.01 min
 Lab File: VL035494.D
 Acq: 23 Aug 2020 10:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion: 97 Resp: 77870
 Ion Ratio Lower Upper
 97 100
 83 85.8 64.9 97.3
 85 54.4 43.1 64.7
 99 64.3 51.5 77.3

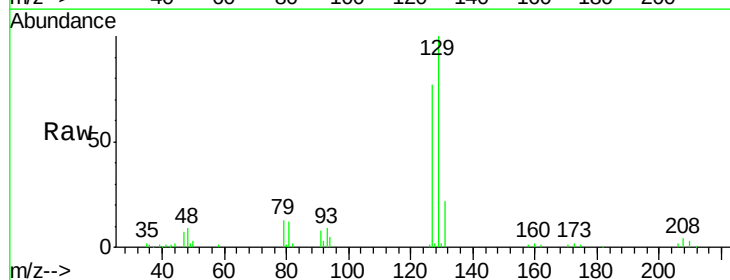


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

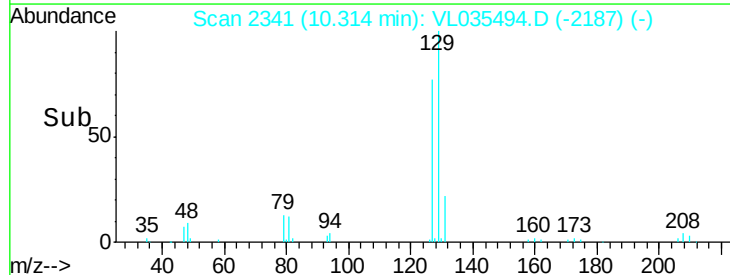
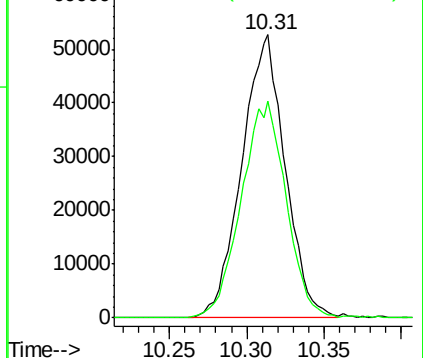


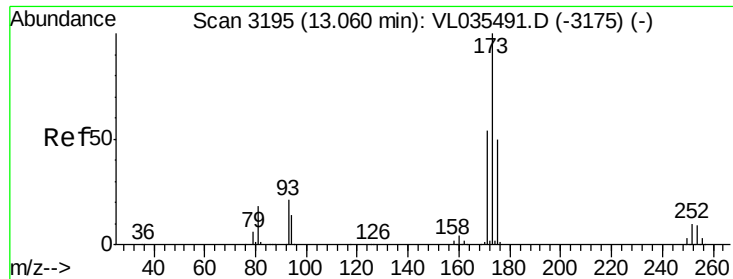
#48
 Dibromochloromethane
 Concen: 0.372 ppbv
 RT: 10.31 min Scan# 2341
 Delta R.T. -0.00 min
 Lab File: VL035494.D
 Acq: 23 Aug 2020 10:09

Tgt Ion: 129 Resp: 102817
 Ion Ratio Lower Upper
 129 100
 127 79.2 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.332 ppbv

RT: 13.05 min Scan# 3193

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

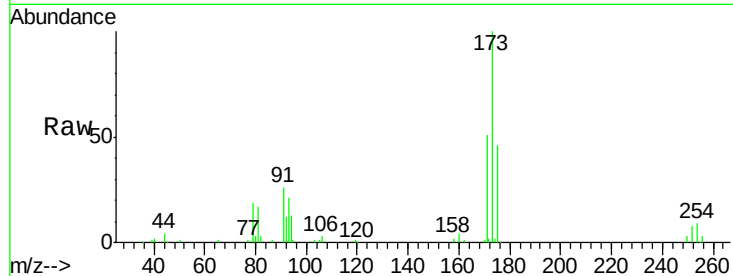
Tot Ion:173 Resp: 88401

Ion Ratio Lower Upper

173 100

175 49.0 40.2 60.4

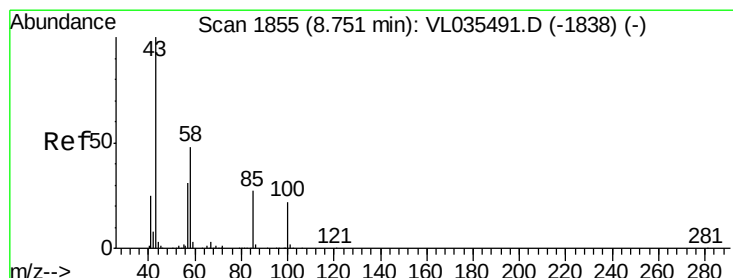
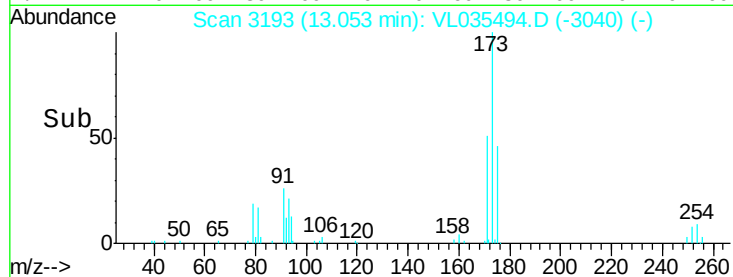
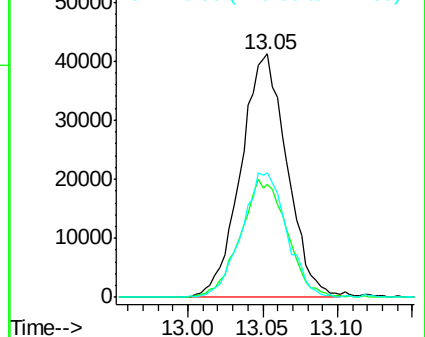
171 50.7 42.7 64.1



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.422 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. 0.01 min

Lab File: VL035494.D

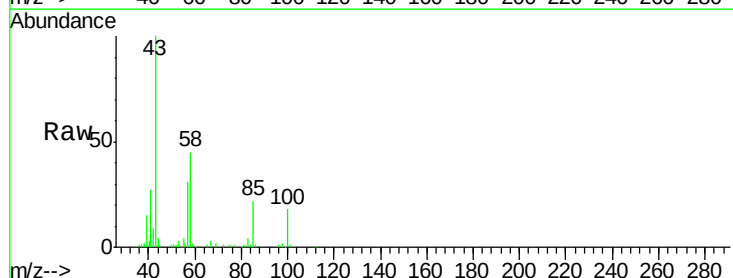
Acq: 23 Aug 2020 10:09

Tgt Ion: 43 Resp: 92240

Ion Ratio Lower Upper

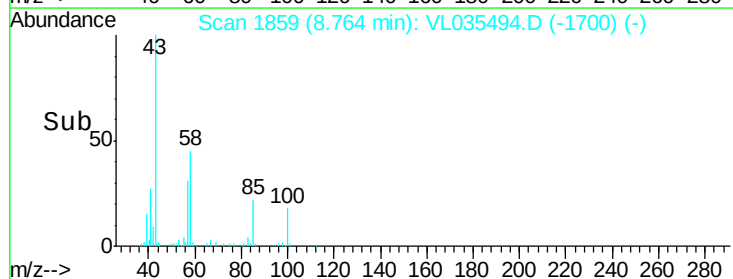
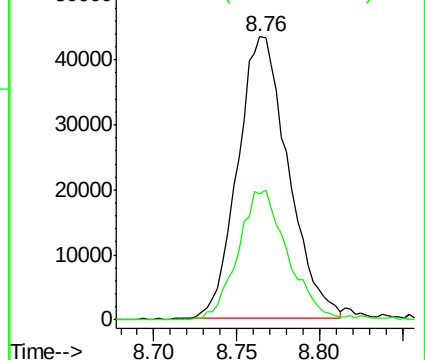
43 100

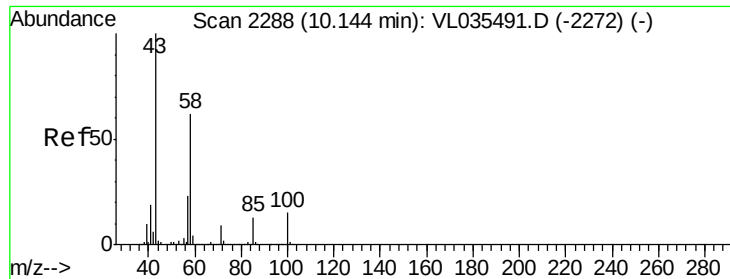
58 46.0 37.4 56.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.376 ppbv

RT: 10.16 min Scan# 2294

Delta R.T. 0.02 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

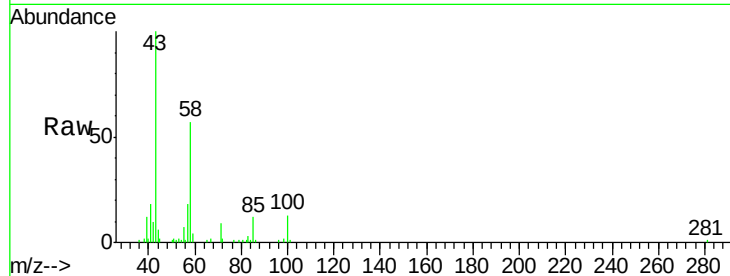
Tot Ion: 43 Resp: 69295

Ion Ratio Lower Upper

43 100

58 59.1 50.3 75.5

98 2.6 0.4 0.6#

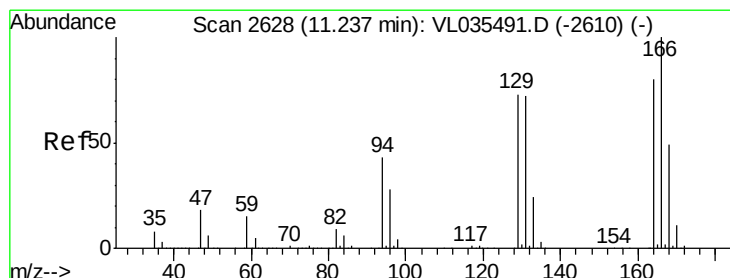
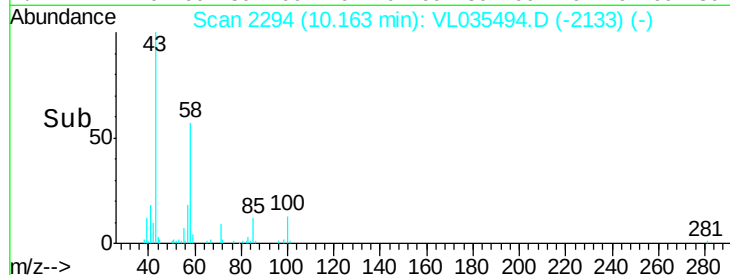
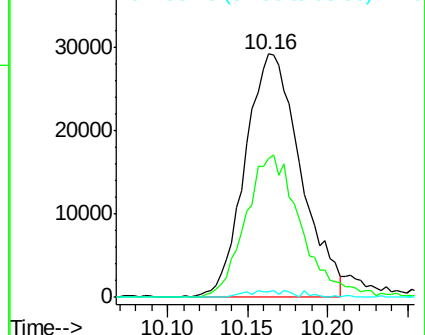


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.447 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Tgt Ion: 164 Resp: 91178

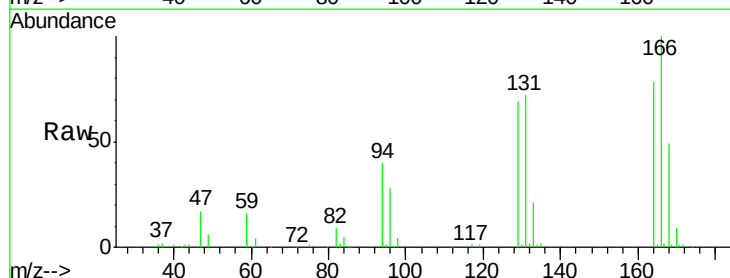
Ion Ratio Lower Upper

164 100

166 127.7 99.6 149.4

129 88.6 72.8 109.2

131 91.4 71.3 106.9



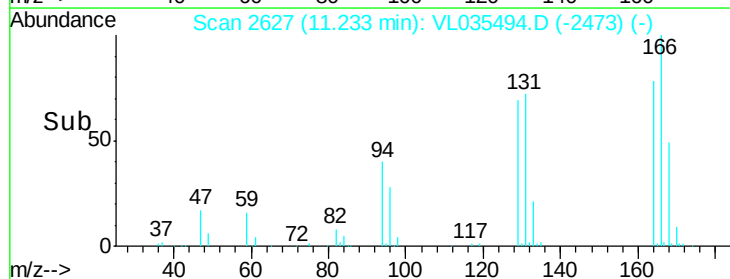
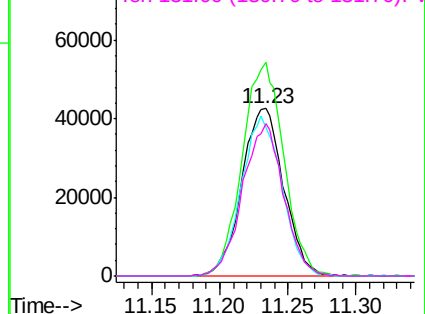
Abundance

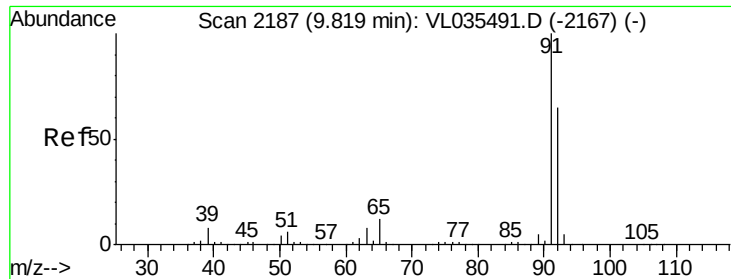
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.432 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

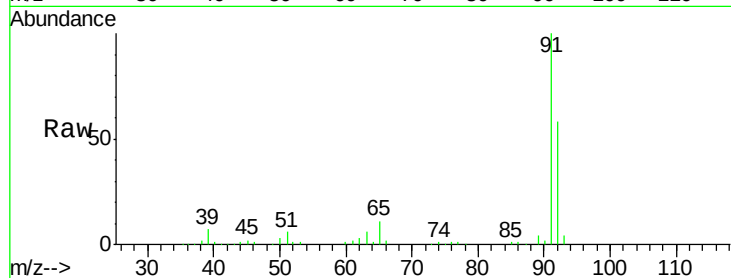
VSTDIC0.5

Tot Ion: 91 Resp: 186077

Ion Ratio Lower Upper

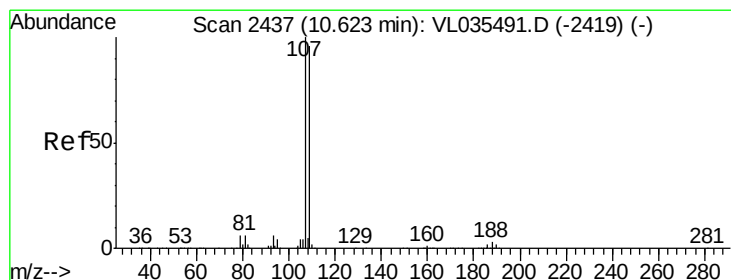
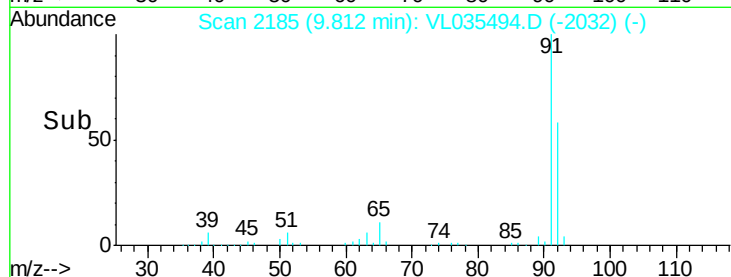
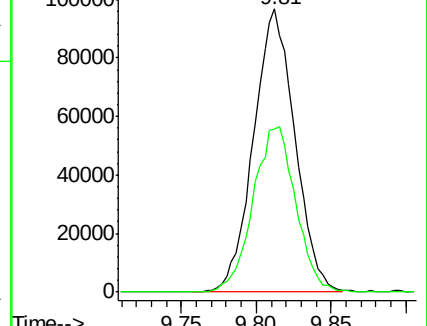
91 100

92 60.2 49.9 74.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.451 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.01 min

Lab File: VL035494.D

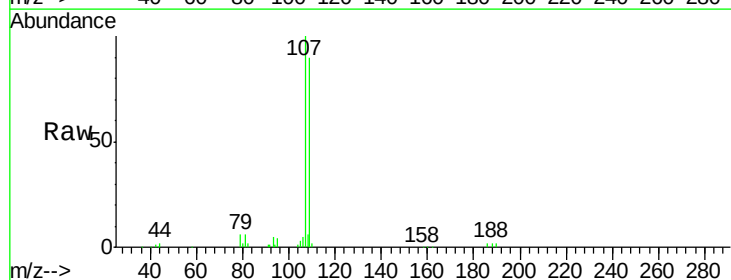
Acq: 23 Aug 2020 10:09

Tgt Ion: 107 Resp: 120706

Ion Ratio Lower Upper

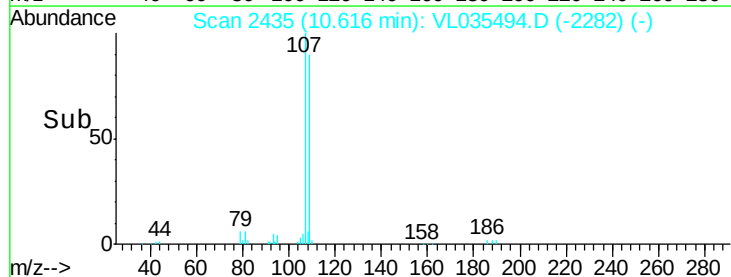
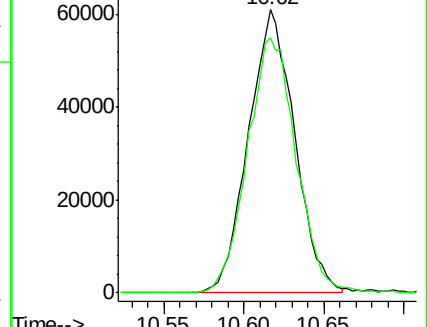
107 100

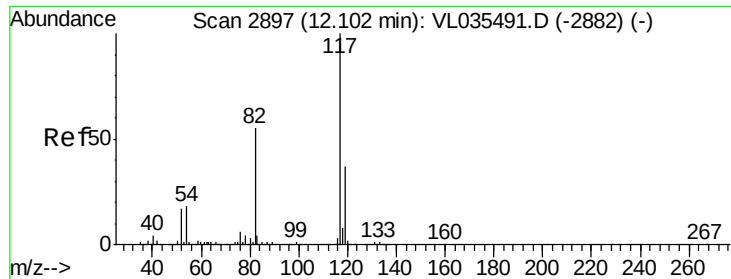
109 90.1 76.5 114.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

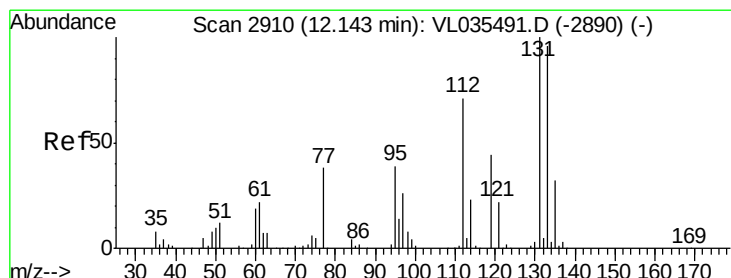
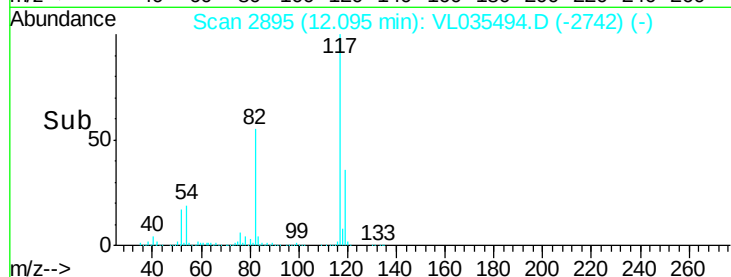
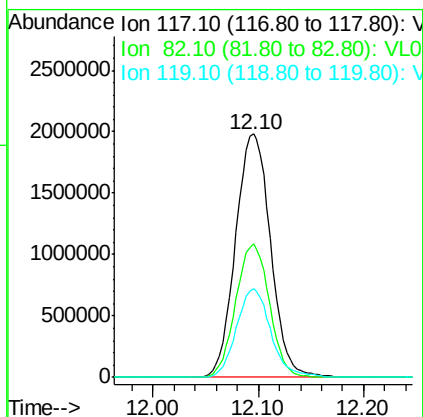
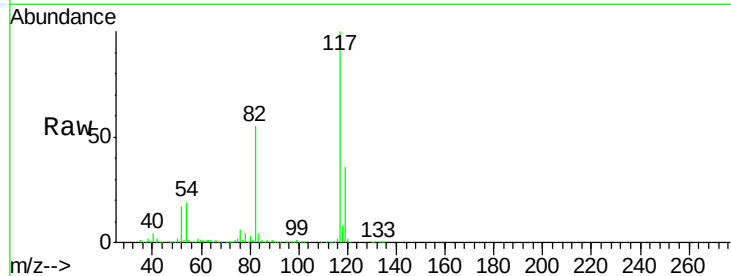




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL035494.D
Acq: 23 Aug 2020 10:09

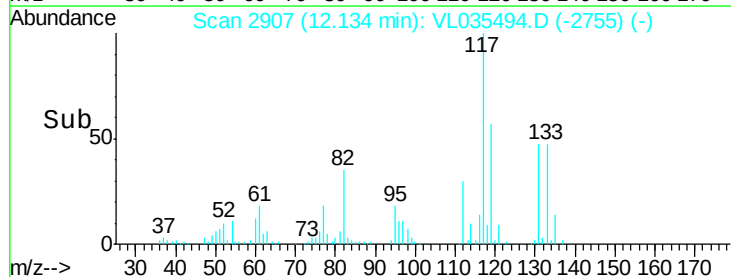
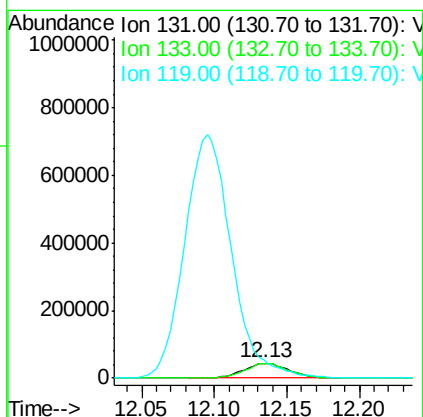
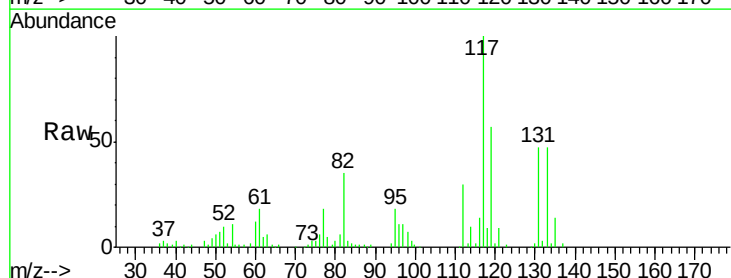
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

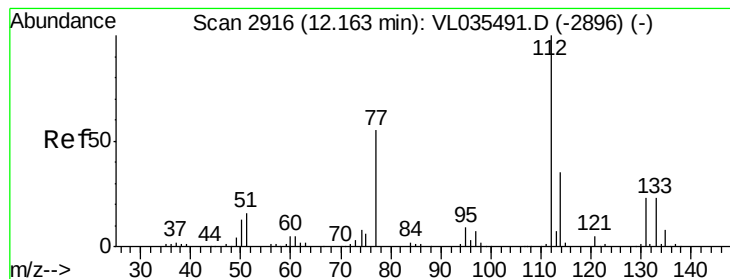
Tot Ion:117 Resp: 4573632
Ion Ratio Lower Upper
117 100
82 53.0 43.9 65.9
119 35.6 30.4 45.6



#56
1,1,1,2-Tetrachloroethane
Concen: 0.440 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL035494.D
Acq: 23 Aug 2020 10:09

Tgt Ion:131 Resp: 95373
Ion Ratio Lower Upper
131 100
133 97.8 76.9 115.3
119 1708.5 45.3 67.9#





#57

Chlorobenzene

Concen: 0.507 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

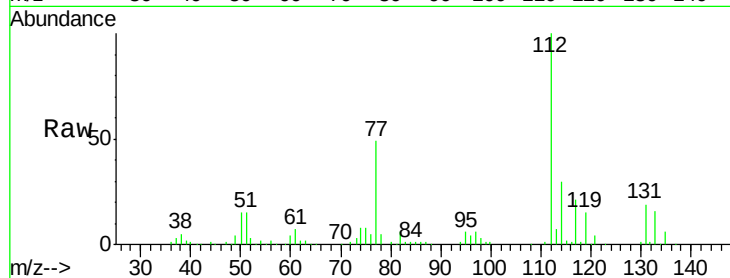
Tot Ion:112 Resp: 193598

Ion Ratio Lower Upper

112 100

77 48.9 45.2 67.8

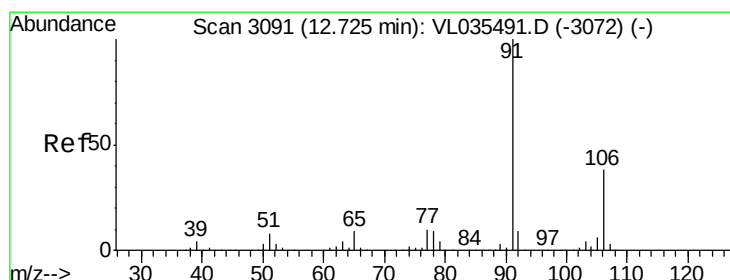
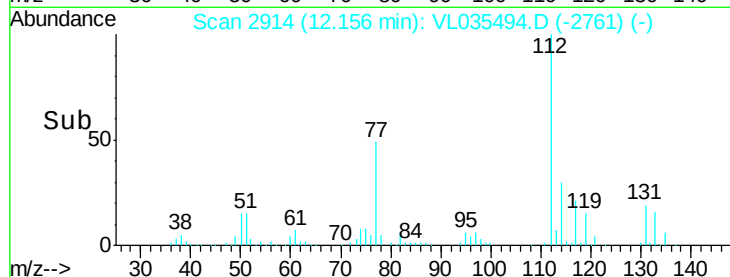
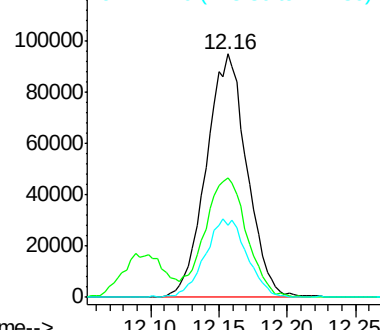
114 29.7 31.6 38.6#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.454 ppbv

RT: 12.72 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL035494.D

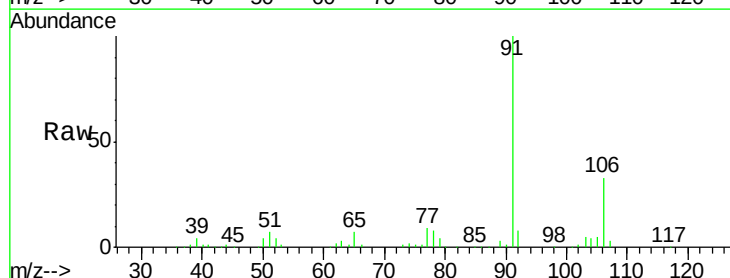
Acq: 23 Aug 2020 10:09

Tgt Ion: 91 Resp: 250888

Ion Ratio Lower Upper

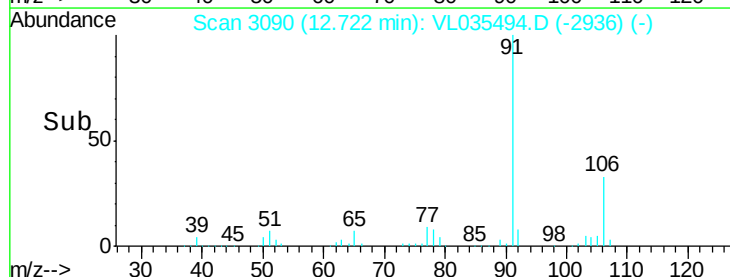
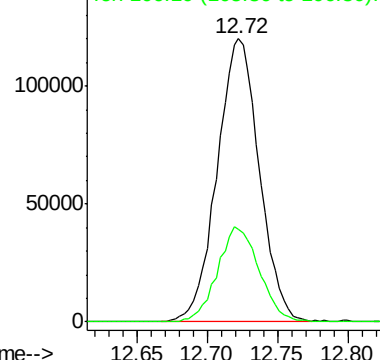
91 100

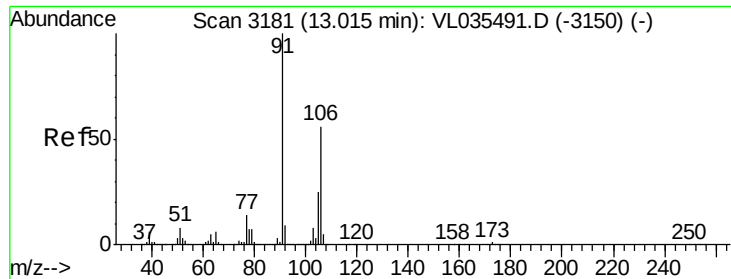
106 32.8 30.2 45.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

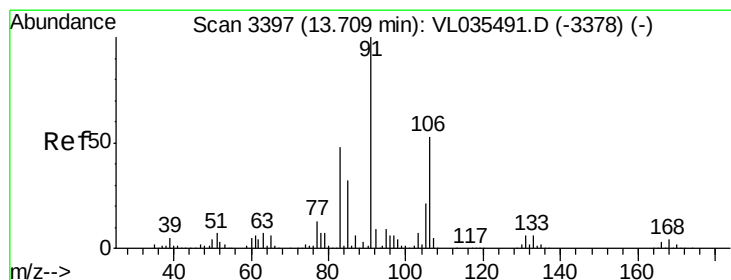
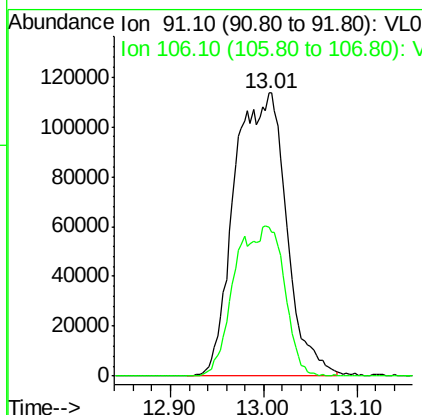
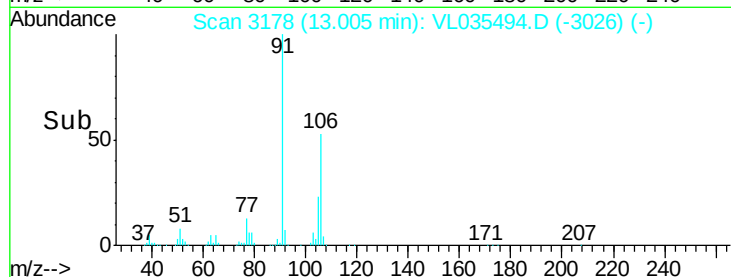
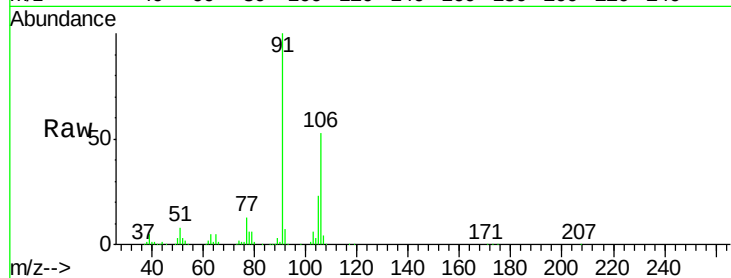




#59
m/p-Xylene
Concen: 0.940 ppbv m
RT: 13.01 min Scan# 3178
Delta R.T. -0.01 min
Lab File: VL035494.D
Acq: 23 Aug 2020 10:09

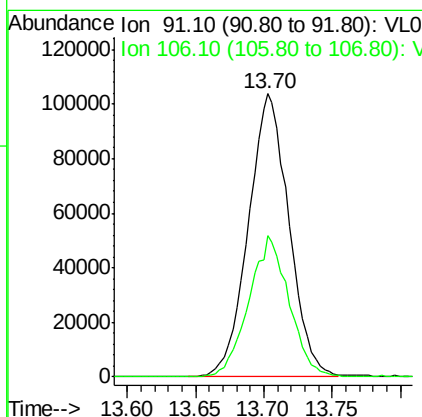
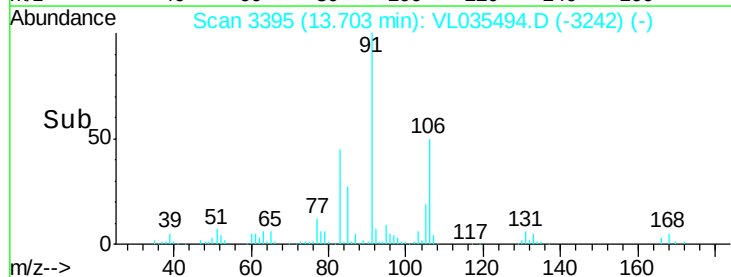
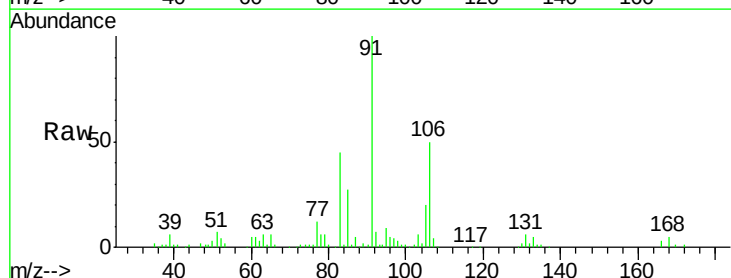
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

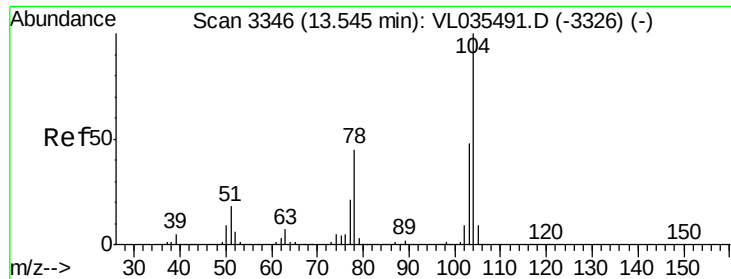
Tot Ion: 91 Resp: 438873
Ion Ratio Lower Upper
91 100
106 50.6 42.6 63.8



#60
o-Xylene
Concen: 0.471 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL035494.D
Acq: 23 Aug 2020 10:09

Tgt Ion: 91 Resp: 213789
Ion Ratio Lower Upper
91 100
106 49.4 25.9 77.7





#61

Stvrene

Concen: 0.397 ppbv

RT: 13.54 min Scan# 3344

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

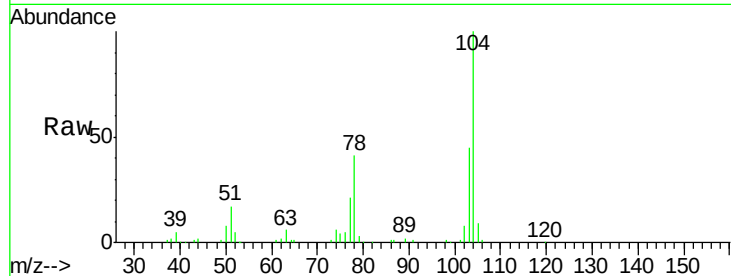
Tot Ion:104 Resp: 145410

Ion Ratio Lower Upper

104 100

78 41.5 34.7 52.1

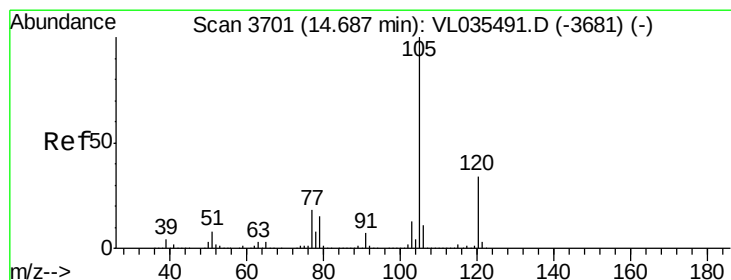
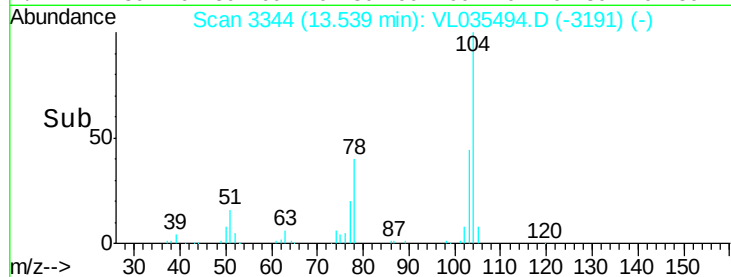
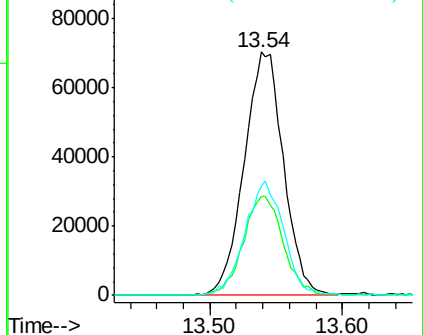
103 46.1 38.2 57.2



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: 0.482 ppbv

RT: 14.68 min Scan# 3699

Delta R.T. -0.01 min

Lab File: VL035494.D

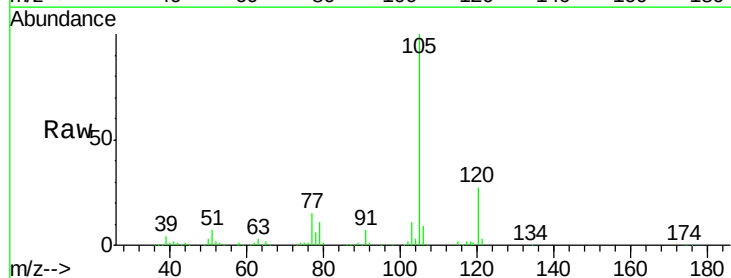
Acq: 23 Aug 2020 10:09

Tgt Ion:105 Resp: 358509

Ion Ratio Lower Upper

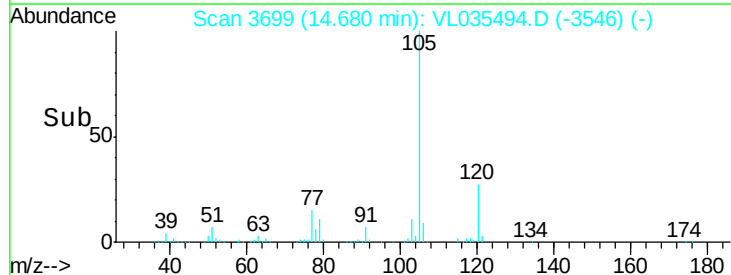
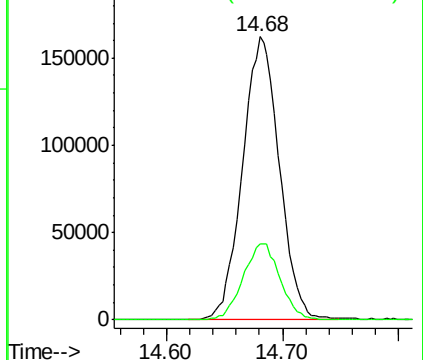
105 100

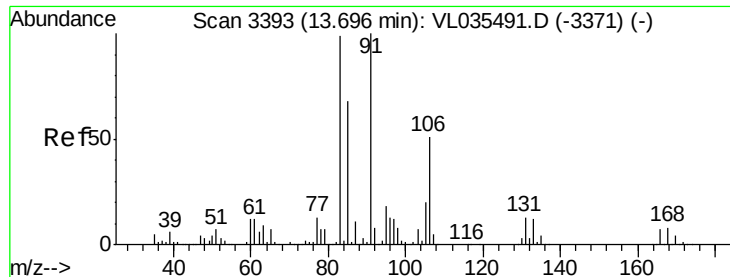
120 27.3 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

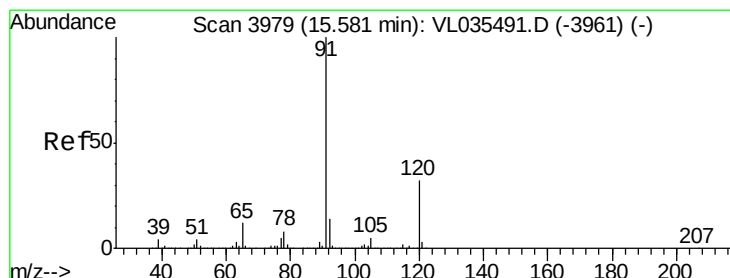
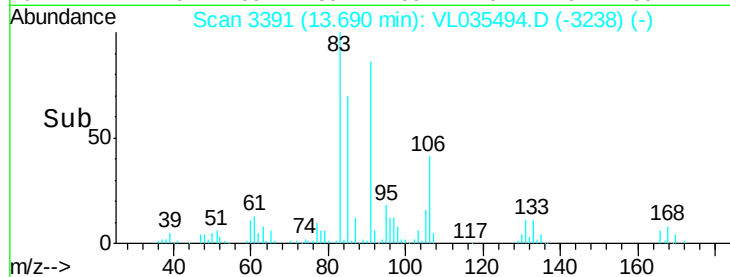
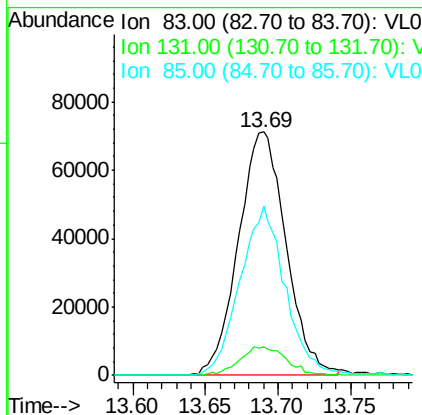
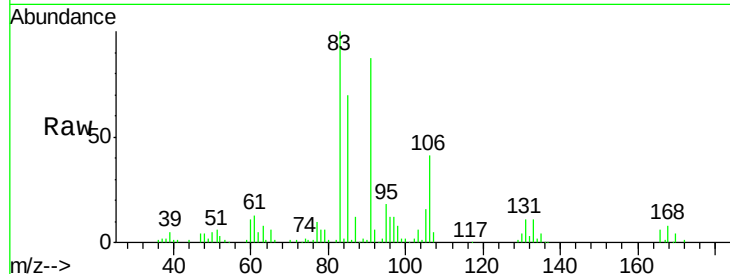




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.500 ppbv
 RT: 13.69 min Scan# 3391
 Delta R.T. -0.01 min
 Lab File: VL035494.D
 Acq: 23 Aug 2020 10:09

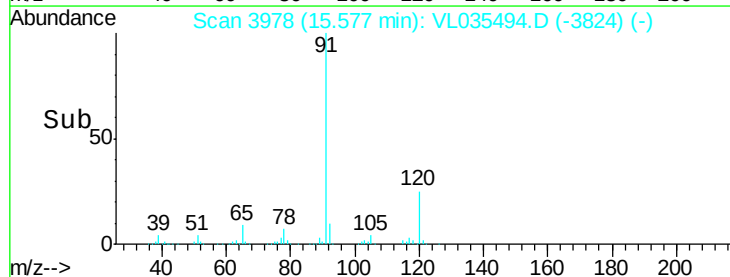
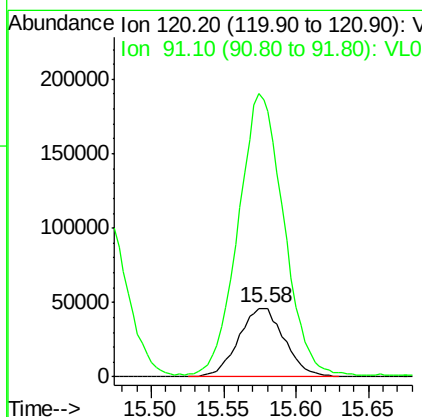
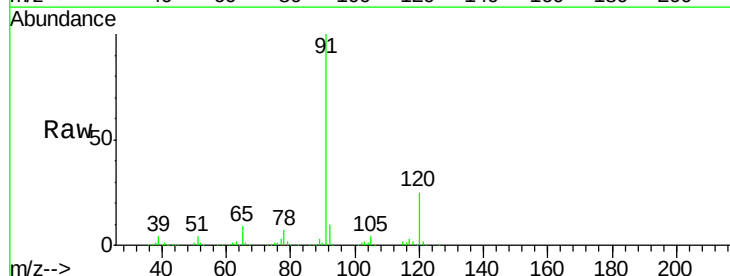
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

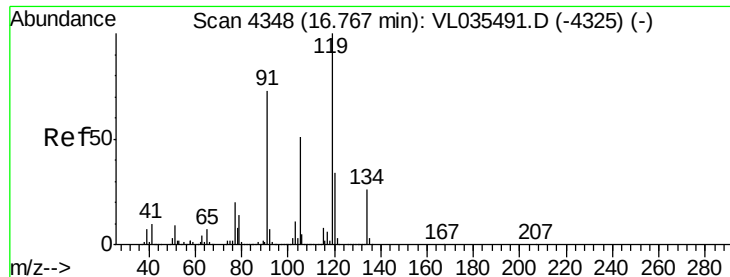
Tot Ion: 83 Resp: 162932
 Ion Ratio Lower Upper
 83 100
 131 11.8 6.2 18.4
 85 65.9 33.4 100.2



#64
 n-propylbenzene
 Concen: 0.445 ppbv
 RT: 15.58 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL035494.D
 Acq: 23 Aug 2020 10:09

Tgt Ion:120 Resp: 101933
 Ion Ratio Lower Upper
 120 100
 91 416.0 280.3 420.5





#65

tert-Butylbenzene

Concen: 0.456 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

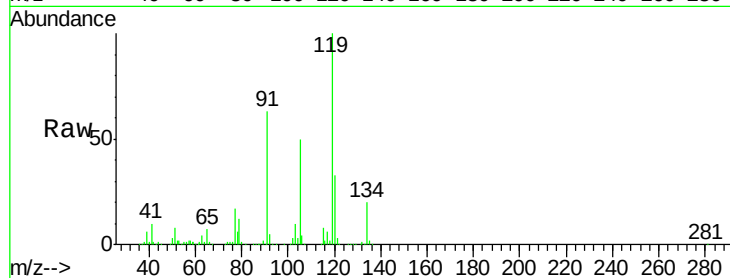
Tot Ion:119 Resp: 329600

Ion Ratio Lower Upper

119 100

91 69.0 57.8 86.8

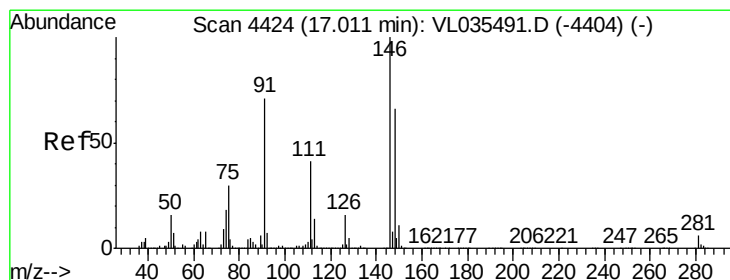
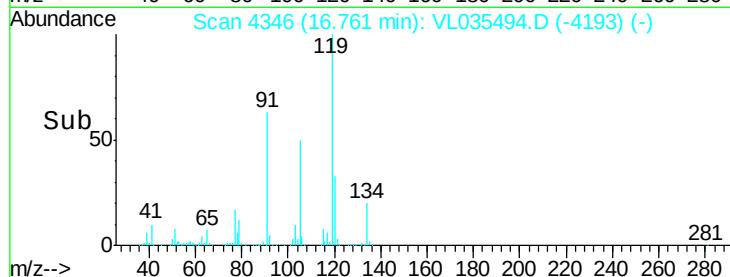
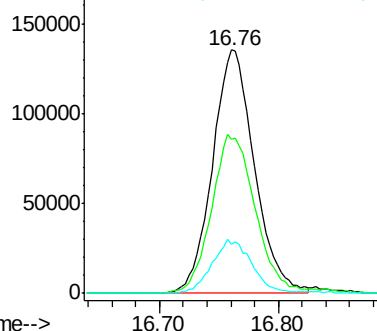
134 21.4 18.8 28.2



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: 0.285 ppbv m

RT: 17.01 min Scan# 4423

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

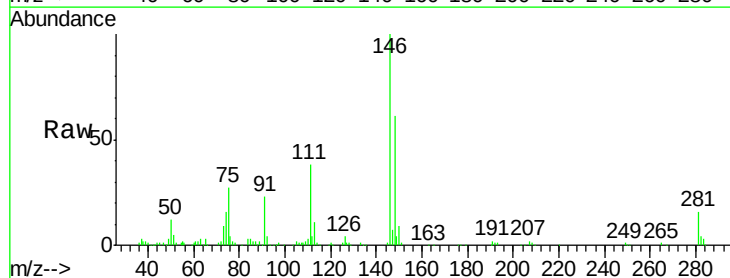
Tgt Ion: 91 Resp: 49609

Ion Ratio Lower Upper

91 100

126 0.0 17.3 25.9#

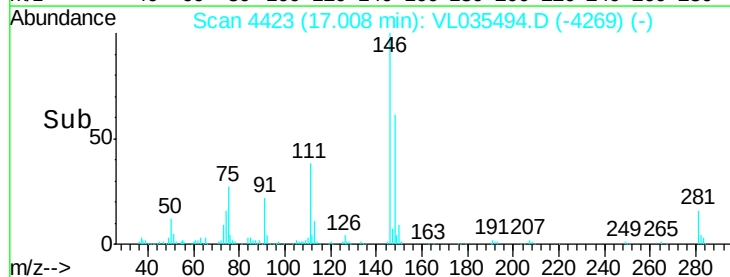
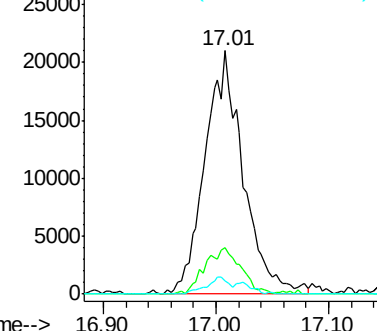
128 0.0 5.6 8.4#

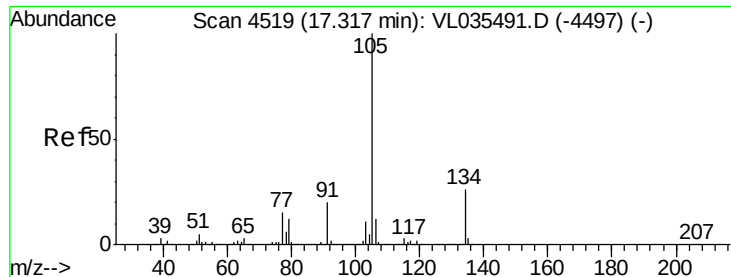


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.472 ppbv

RT: 17.31 min Scan# 4518

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

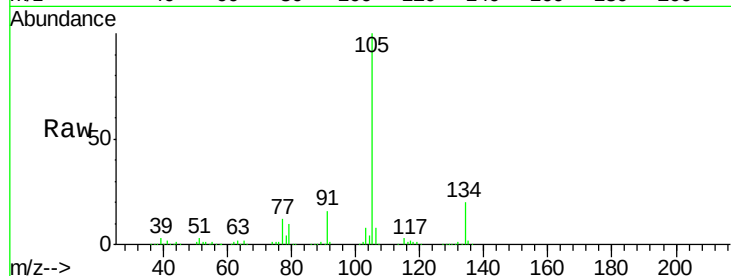
VSTDIC0.5

Tot Ion:105 Resp: 449064

Ion Ratio Lower Upper

105 100

134 20.1 19.1 28.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.31

200000

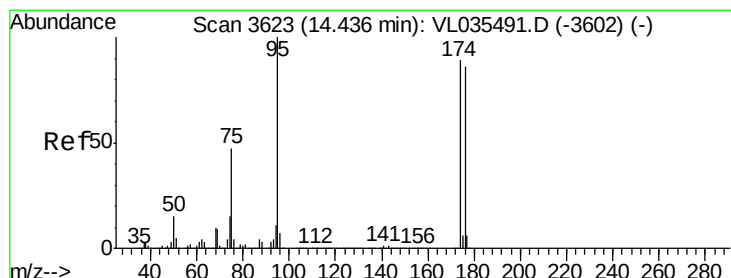
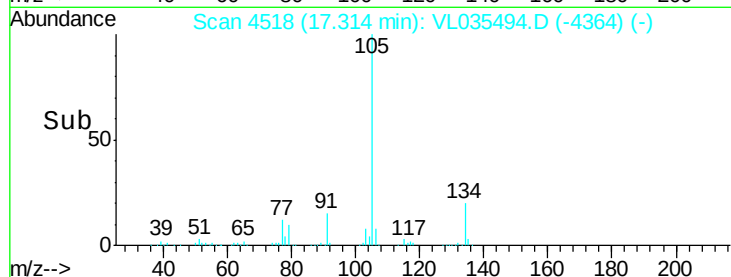
150000

100000

50000

0

Time--> 17.20 17.30 17.40



#68

1-Bromo-4-Fluorobenzene

Concen: 10.316 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

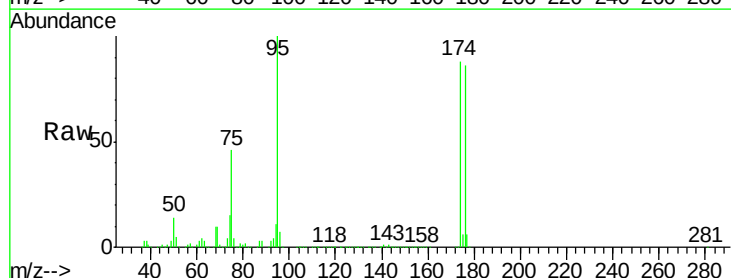
Tgt Ion: 95 Resp: 3303032

Ion Ratio Lower Upper

95 100

174 90.0 70.9 106.3

175 6.6 5.1 7.7



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

2000000

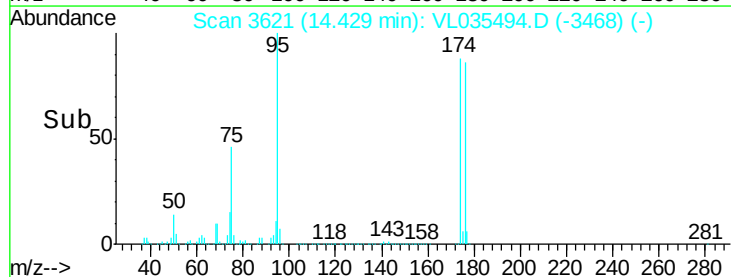
1500000

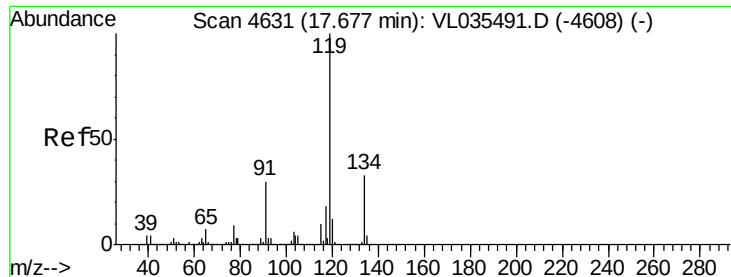
1000000

500000

0

Time--> 14.30 14.40 14.50





#69

p-Isopropyltoluene

Concen: 0.444 ppbv

RT: 17.67 min Scan# 4629

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

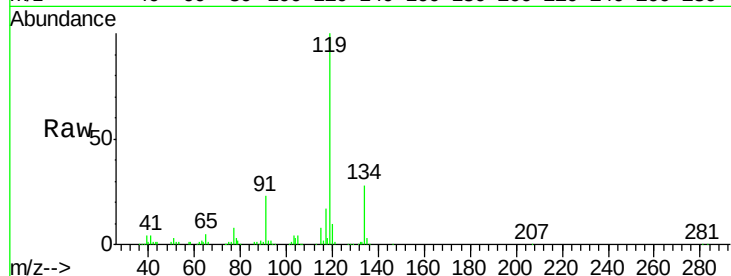
Tot Ion:119 Resp: 374906

Ion Ratio Lower Upper

119 100

134 28.2 24.9 37.3

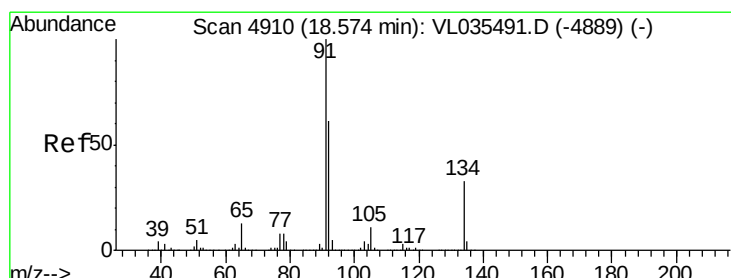
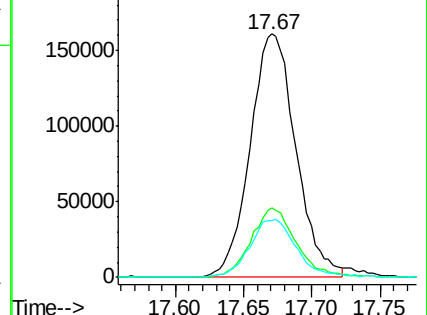
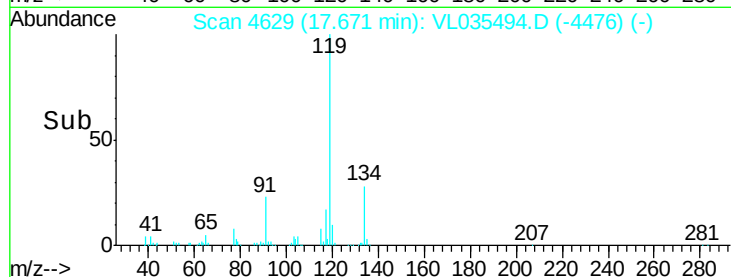
91 24.6 22.0 33.0



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: 0.464 ppbv

RT: 18.57 min Scan# 4909

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

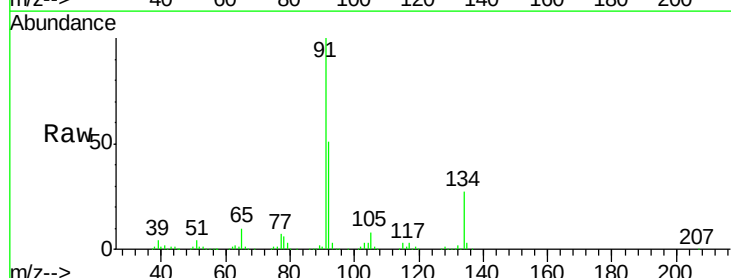
Tgt Ion: 91 Resp: 370090

Ion Ratio Lower Upper

91 100

92 53.1 47.0 70.6

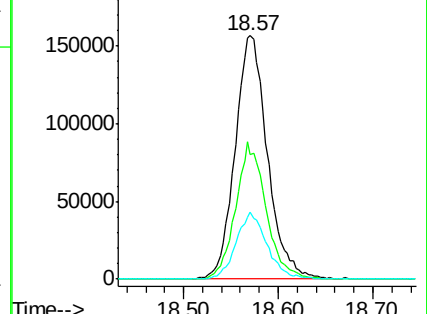
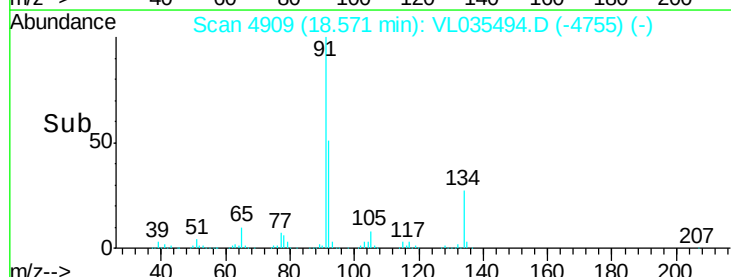
134 26.4 24.9 37.3

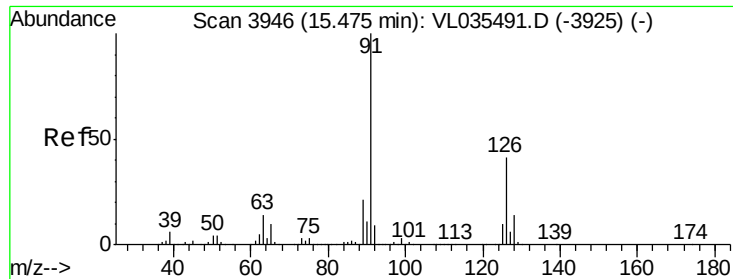


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.455 ppbv

RT: 15.46 min Scan# 3943

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

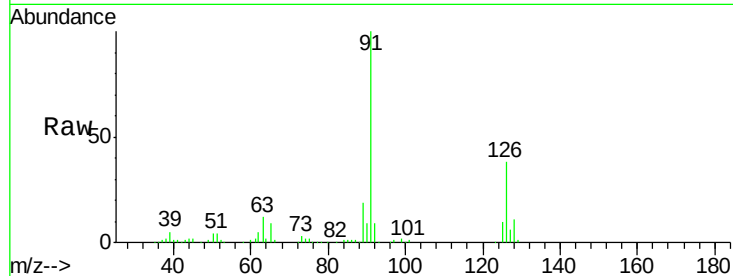
VSTDIC0.5

Tot Ion: 91 Resp: 245438

Ion Ratio Lower Upper

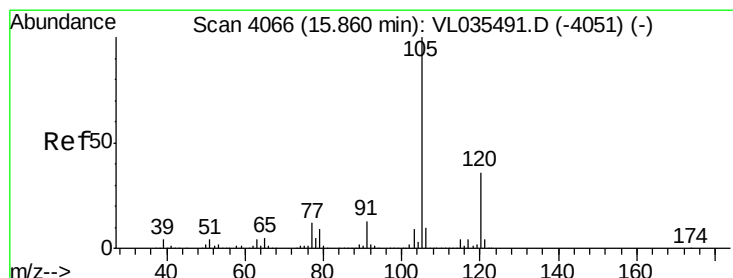
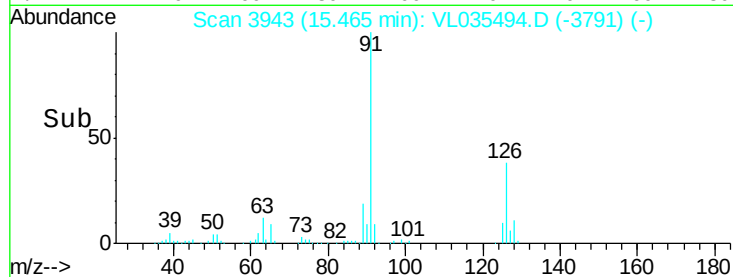
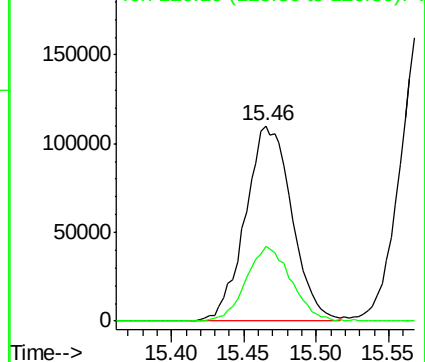
91 100

126 37.3 15.8 63.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.439 ppbv

RT: 15.86 min Scan# 4065

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Tgt Ion: 105 Resp: 261134

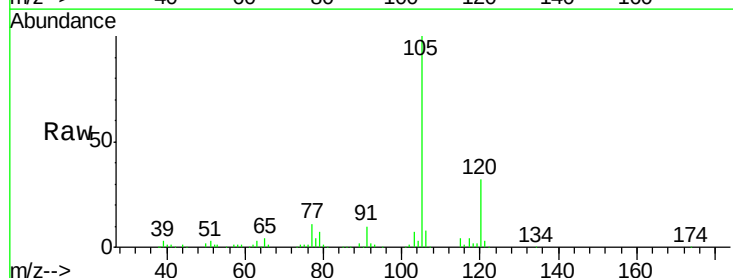
Ion Ratio Lower Upper

105 100

120 32.5 27.4 41.0

91 11.4 9.5 14.3

77 11.5 9.4 14.2

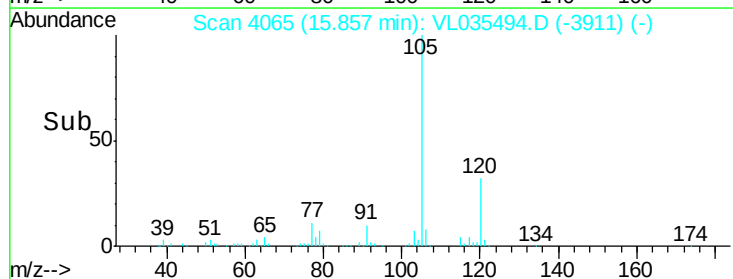
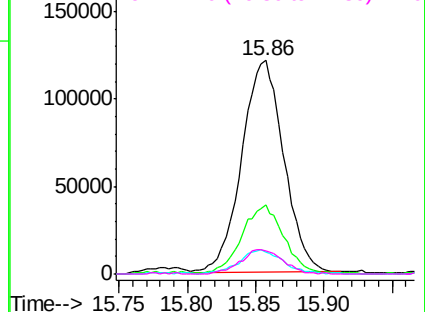


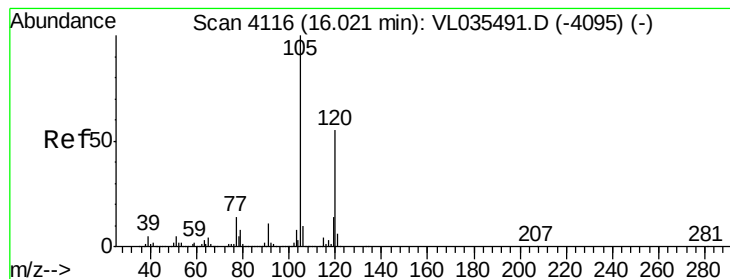
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 0.436 ppbv

RT: 16.01 min Scan# 4113

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

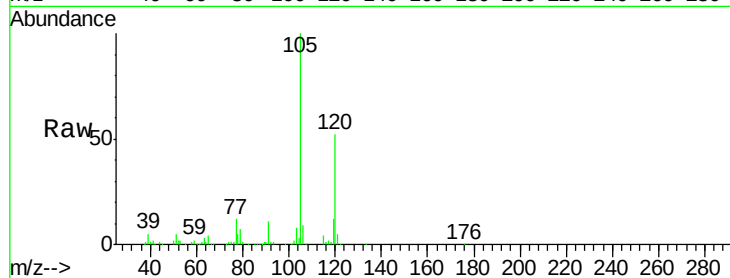
VSTDIC0.5

Tot Ion:105 Resp: 241334

Ion Ratio Lower Upper

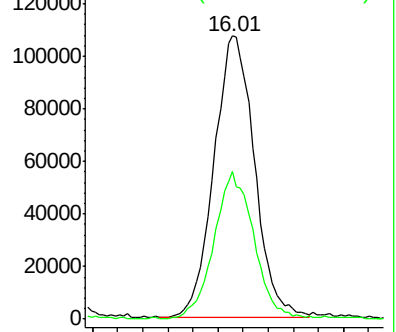
105 100

120 52.2 43.9 65.9

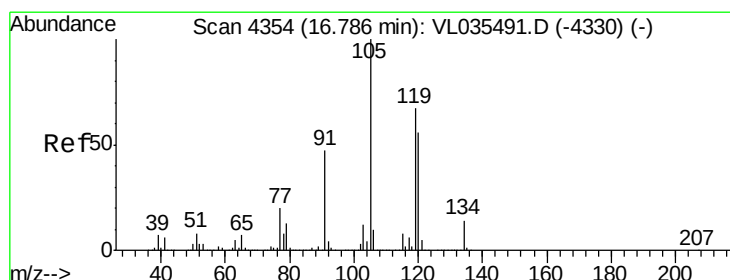
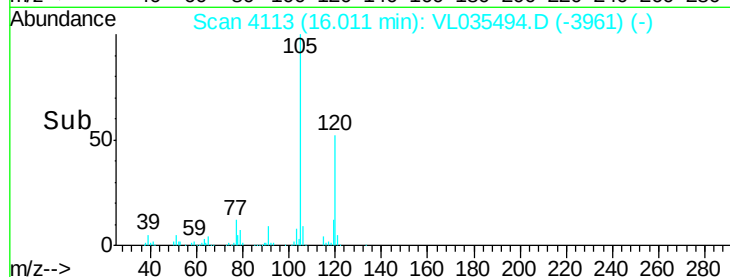


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



Time--> 15.90 16.00 16.10



#74

1,2,4-Trimethylbenzene

Concen: 0.471 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Tgt Ion:105 Resp: 283290

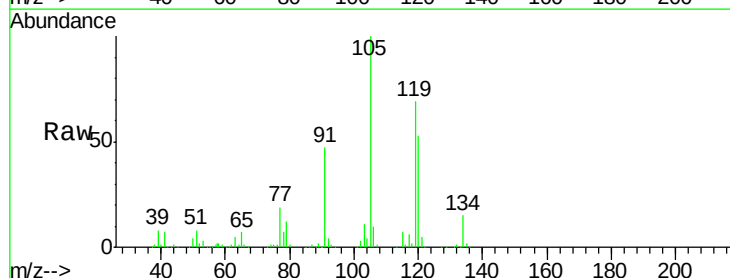
Ion Ratio Lower Upper

105 100

120 52.3 44.7 67.1

91 46.4 37.5 56.3

77 18.9 16.2 24.2

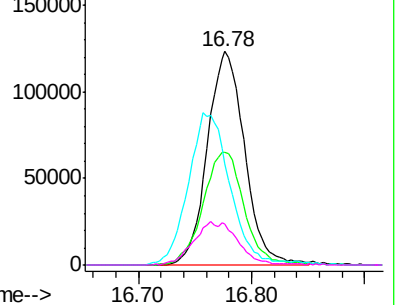


Abundance Ion 105.10 (104.80 to 105.80): V

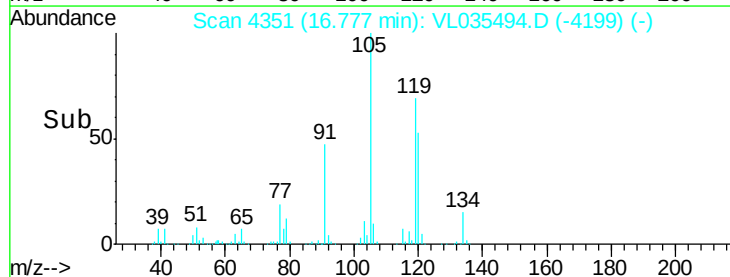
Ion 120.20 (119.90 to 120.90): V

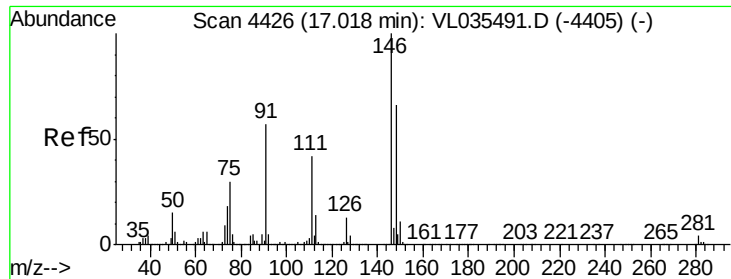
Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



Time--> 16.70 16.80





#75

1,3-Dichlorobenzene

Concen: 0.468 ppbv

RT: 17.01 min Scan# 4423

Delta R.T. -0.01 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

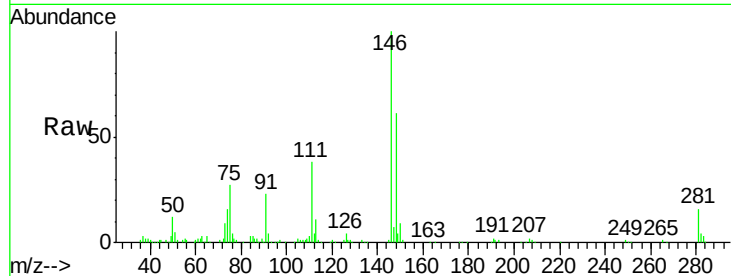
Tot Ion:146 Resp: 217571

Ion Ratio Lower Upper

146 100

111 37.9 20.3 61.0

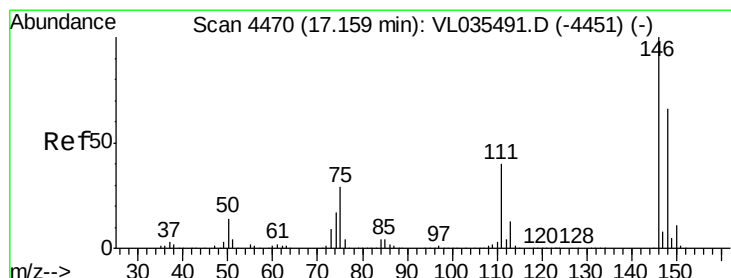
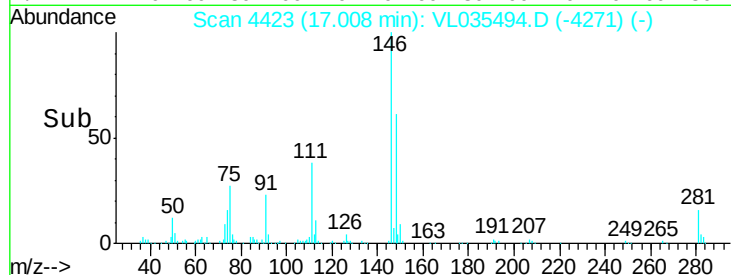
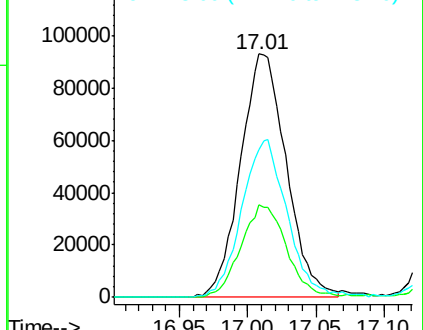
148 64.3 33.1 99.5



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



#76

1,4-Dichlorobenzene

Concen: 0.476 ppbv m

RT: 17.16 min Scan# 4469

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

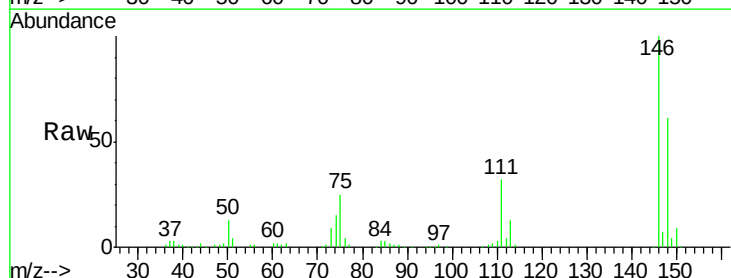
Tgt Ion:146 Resp: 218115

Ion Ratio Lower Upper

146 100

111 37.0 19.6 58.8

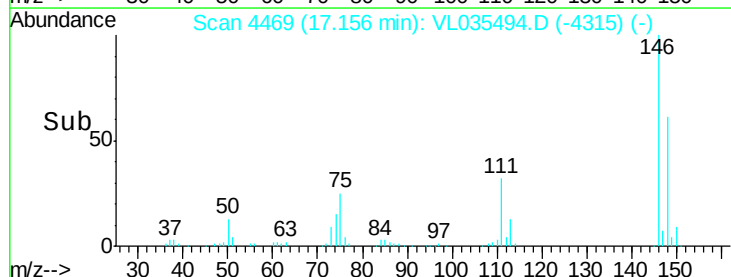
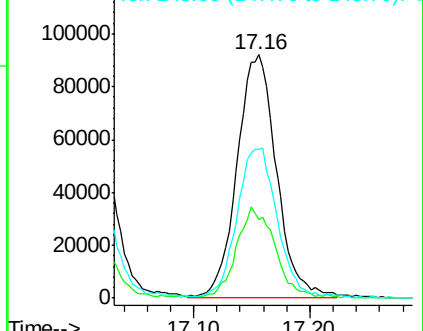
148 63.3 32.8 98.3

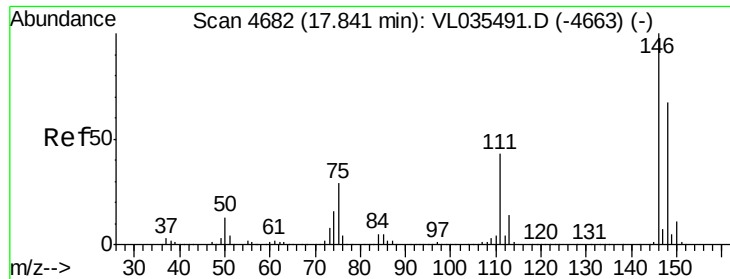


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

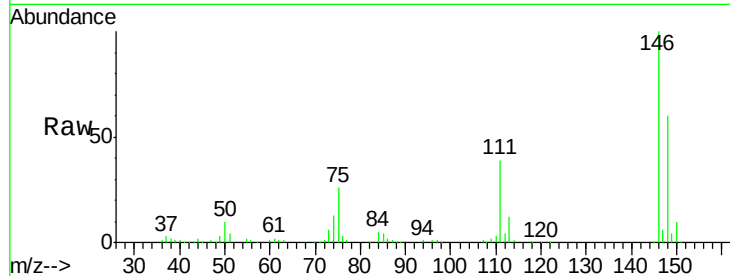




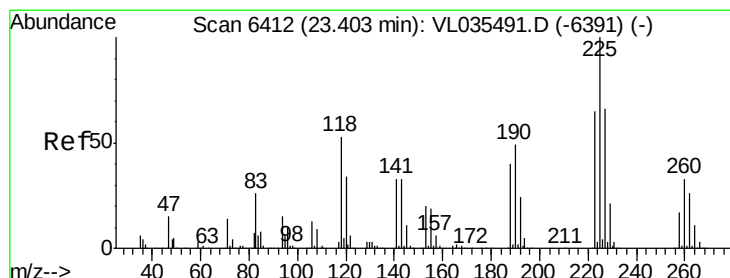
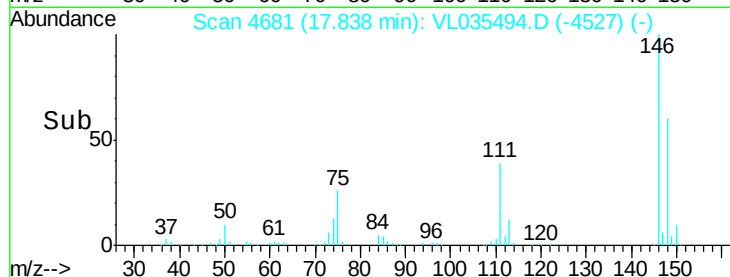
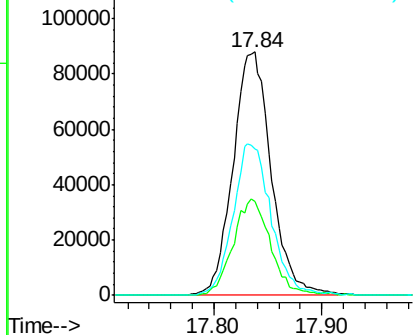
#77
 1,2-Dichlorobenzene
 Concen: 0.476 ppbv
 RT: 17.84 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL035494.D
 Acq: 23 Aug 2020 10:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:146 Resp: 216768
 Ion Ratio Lower Upper
 146 100
 111 39.2 21.0 63.0
 148 62.4 33.0 98.9

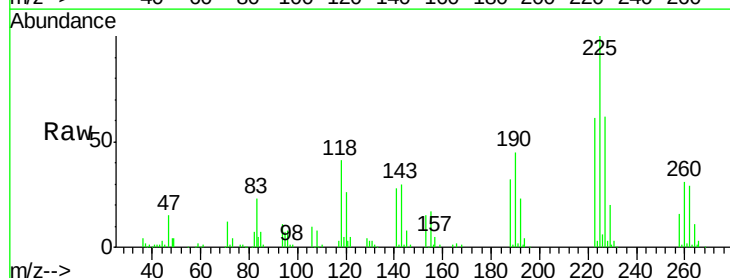


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

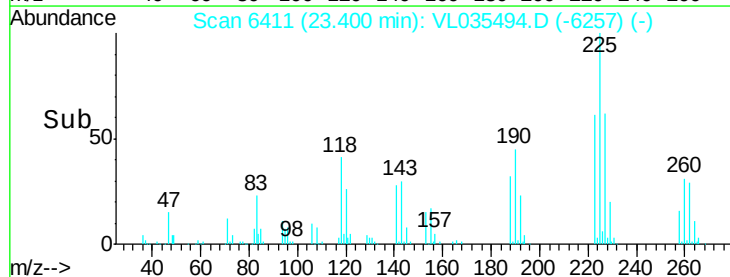
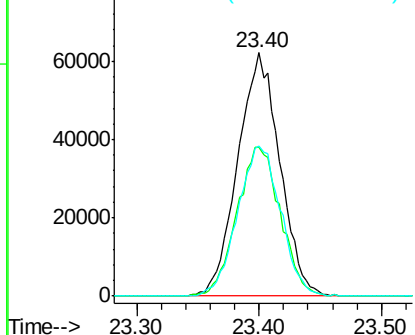


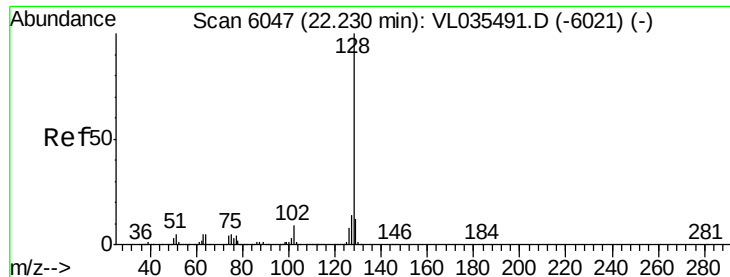
#78
 Hexachloro-1,3-Butadiene
 Concen: 0.411 ppbv
 RT: 23.40 min Scan# 6411
 Delta R.T. -0.00 min
 Lab File: VL035494.D
 Acq: 23 Aug 2020 10:09

Tgt Ion:225 Resp: 148111
 Ion Ratio Lower Upper
 225 100
 223 63.4 51.4 77.2
 227 63.1 51.7 77.5



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.378 ppbv

RT: 22.23 min Scan# 6046

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

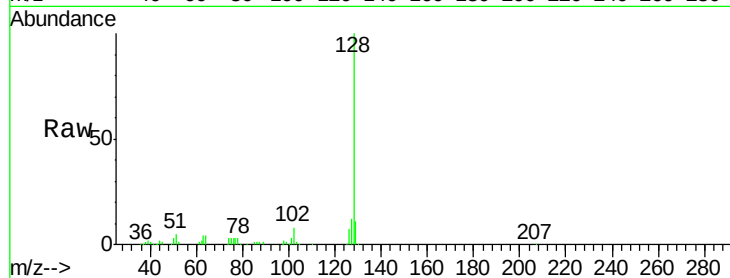
Tot Ion:128 Resp: 320593

Ion Ratio Lower Upper

128 100

127 11.8 11.4 17.0

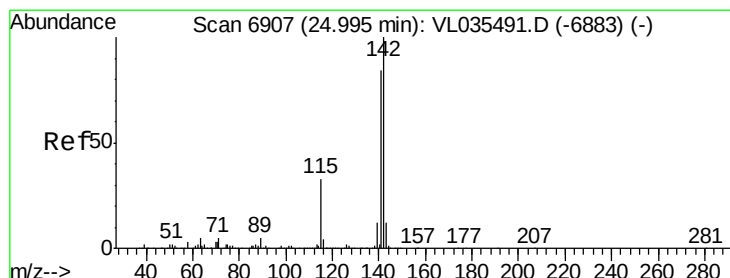
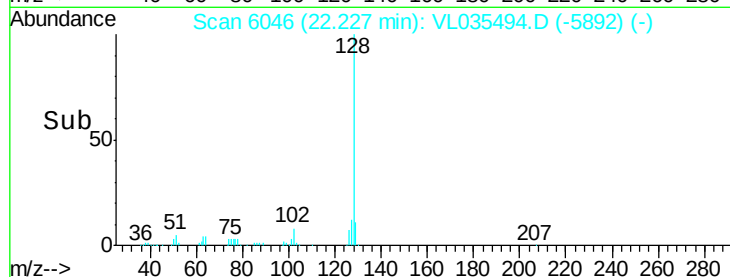
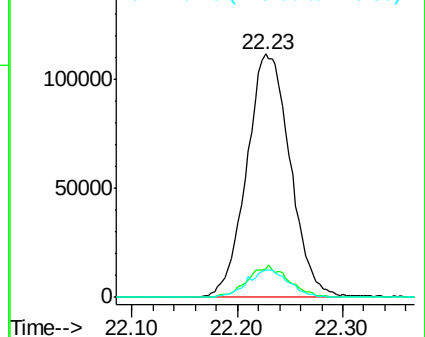
129 11.3 9.8 14.6



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.282 ppbv

RT: 25.00 min Scan# 6908

Delta R.T. 0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

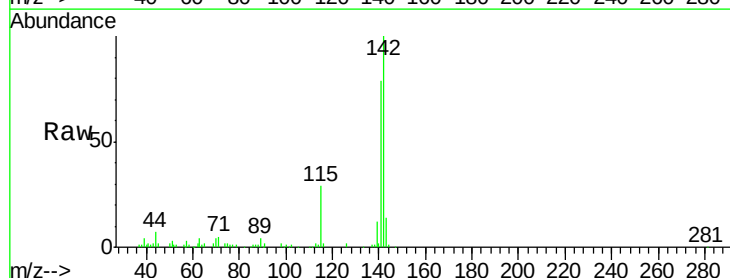
Tgt Ion:142 Resp: 98715

Ion Ratio Lower Upper

142 100

141 85.6 67.1 100.7

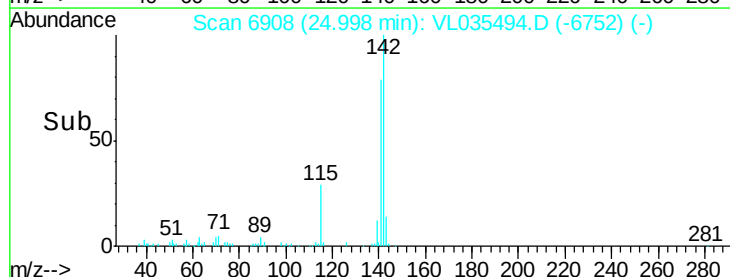
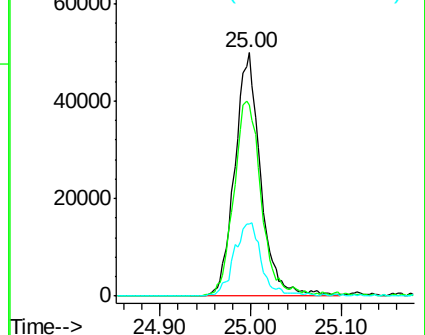
115 32.0 25.6 38.4

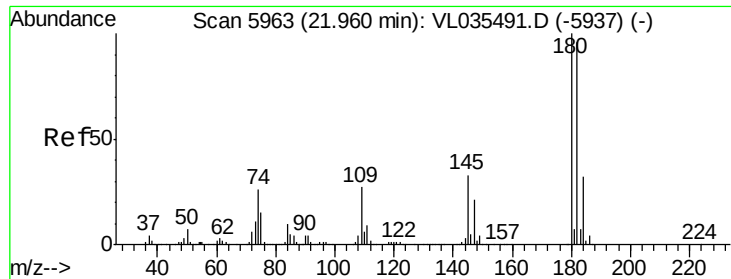


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 0.394 ppbv

RT: 21.96 min Scan# 5963

Delta R.T. -0.00 min

Lab File: VL035494.D

Acq: 23 Aug 2020 10:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

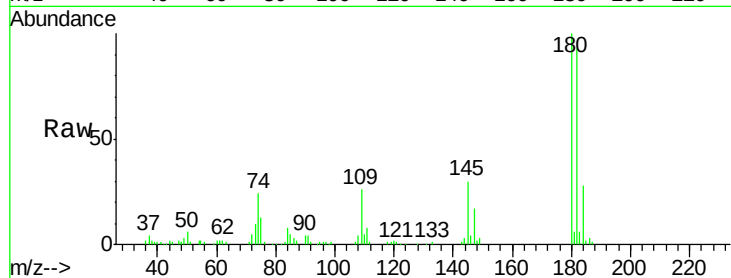
Tot Ion:180 Resp: 201105

Ion Ratio Lower Upper

180 100

182 96.8 76.6 115.0

184 30.6 25.4 38.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

