

Data File : VL035492.D
Acq On : 23 Aug 2020 8:54
Operator : SY/AP
Sample : VSTDIC002
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Quant Time: Aug 23 10:35:03 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LSun 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	5.67	49	1073110	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4760787	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4982528	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	3446478	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.04	85	370056	1.861	ppbv	99
3) Chlorodifluoromethane	2.98	51	245563	1.825	ppbv	98
4) Chloromethane	3.13	50	126659	1.807	ppbv	96
5) Vinyl Chloride	3.25	62	151173	1.805	ppbv	99
6) Bromomethane	3.47	94	136338	1.861	ppbv	99
7) Chloroethane	3.55	64	55983	1.814	ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	479197	1.882	ppbv	98
9) Propene	3.00	41	92367	1.708	ppbv	98
10) Heptane	8.13	43	256682	1.810	ppbv	99
11) Trichlorofluoromethane	3.95	101	579299	1.856	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	428962	1.844	ppbv	99
13) Ethanol	3.60	45	30949	1.562	ppbv	99
14) Bromoethene	3.74	108	189231	1.841	ppbv	99
15) Acetone	3.85	43	238299	1.929	ppbv	93
16) 1,3-Butadiene	3.32	39	92753	1.852	ppbv	97
17) tert-Butyl alcohol	4.29	59	293665	1.840	ppbv	99
18) 1,1-Dichloroethene	4.29	96	188053	1.831	ppbv	97
19) Isopropyl Alcohol	3.97	45	145247	1.706	ppbv #	97
20) Methylene Chloride	4.34	84	296297	2.973	ppbv	98
21) Allyl Chloride	4.41	41	116307	1.853	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	199325	1.819	ppbv	96
23) Vinyl Acetate	5.07	43	316184	1.791	ppbv	99
24) 1,1-Dichloroethane	5.01	63	327893	1.861	ppbv	97
25) Ethyl Acetate	5.68	43	452672	1.883	ppbv	98
26) Hexane	5.69	57	291827	2.152	ppbv	91
27) Carbon Disulfide	4.55	76	359596	1.834	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	443640	1.791	ppbv	99
29) Chloroform	5.75	83	508551	1.866	ppbv	99
30) Cyclohexane	7.13	84	274355	1.823	ppbv	86
31) cis-1,2-Dichloroethene	5.55	61	254297	1.783	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	484709	1.898	ppbv	99
34) 2-Butanone	5.25	43	290947	1.829	ppbv	98
35) Carbon Tetrachloride	7.02	117	508052	2.007	ppbv	99
36) Benzene	6.89	78	655452	1.876	ppbv	98
37) 1,2-Dichloroethane	6.31	62	299246	1.874	ppbv	100
38) Trichloroethene	7.84	130	355630	1.830	ppbv	99
39) 1,2-Dichloropropane	7.62	63	217283	1.887	ppbv	96
40) 1,4-Dioxane	7.85	88	106024	1.690	ppbv #	64
41) Tetrahydrofuran	6.06	42	156215	1.780	ppbv	99
42) Bromodichloromethane	7.79	83	500536	1.873	ppbv	95
43) Methyl Methacrylate	8.02	69	249870	1.829	ppbv	99

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VSTDIC002

Quant Time: Aug 23 10:35:03 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082320AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LSun Aug 23 10:33:49 2020
QLast Update : Sun Aug 23 10:33:49 2020
Response via : Initial Calibration

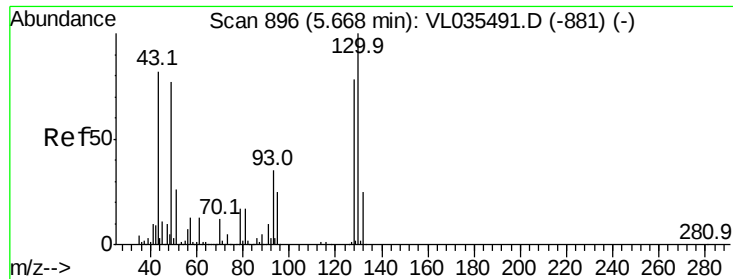
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	878998	1.926	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	250575	1.780	ppbv	95
46) cis-1,3-Dichloropropene	8.71	75	319526	1.822	ppbv	96
47) 1,1,2-Trichloroethane	9.48	97	320893	1.866	ppbv	98
48) Dibromochloromethane	10.31	129	523282	1.814	ppbv	99
49) Bromoform	13.05	173	480537	1.729	ppbv	98
50) 4-Methyl-2-Pentanone	8.75	43	422496	1.852	ppbv	98
51) 2-Hexanone	10.15	43	342492	1.781	ppbv #	100
52) Tetrachloroethene	11.24	164	370486	1.738	ppbv	96
53) Toluene	9.82	91	847634	1.883	ppbv	98
54) 1,2-Dibromoethane	10.62	107	516540	1.849	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.14	131	430015	1.819	ppbv #	1
57) Chlorobenzene	12.16	112	770782	1.853	ppbv	96
58) Ethyl Benzene	12.73	91	1135413	1.888	ppbv	94
59) m/p-Xylene	13.01	91	980219	1.928	ppbv #	35
60) o-Xylene	13.71	91	939974	1.902	ppbv	98
61) Styrene	13.54	104	725683	1.817	ppbv	98
62) Isopropylbenzene	14.68	105	1556113	1.921	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.69	83	670766	1.890	ppbv	98
64) n-propylbenzene	15.58	120	454832	1.822	ppbv	79
65) tert-Butylbenzene	16.76	119	1501475	1.908	ppbv	95
66) Benzyl Chloride	17.00	91	311196	1.644	ppbv	96
67) sec-Butylbenzene	17.31	105	2028471	1.958	ppbv	93
69) p-Isopropyltoluene	17.67	119	1774910	1.931	ppbv	94
70) n-Butylbenzene	18.57	91	1674939	1.929	ppbv	94
71) 2-Chlorotoluene	15.47	91	1107423	1.885	ppbv	97
72) 4-Ethyltoluene	15.85	105	1231239	1.899	ppbv	97
73) 1,3,5-Trimethylbenzene	16.01	105	1133392	1.878	ppbv	93
74) 1,2,4-Trimethylbenzene	16.78	105	1247121	1.902	ppbv	95
75) 1,3-Dichlorobenzene	17.01	146	913517	1.804	ppbv	98
76) 1,4-Dichlorobenzene	17.15	146	895435	1.794	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	889770	1.794	ppbv	98
78) Hexachloro-1,3-Butadiene	23.40	225	657677	1.677	ppbv	98
79) Naphthalene	22.23	128	1642515	1.779	ppbv	97
80) Naphthalene,2-methyl-	24.99	142	707655	1.855	ppbv	99
81) 1,2,4-Trichlorobenzene	21.95	180	922675	1.658	ppbv	99

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

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VSTDIC002

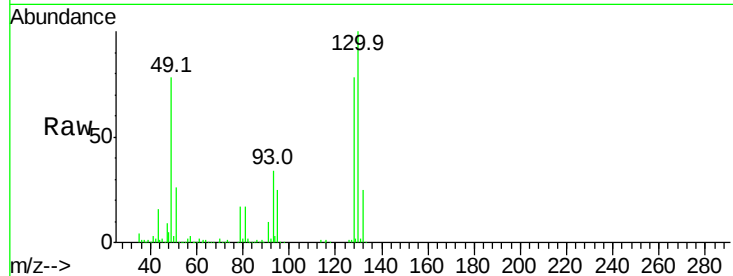
Tgt Ion: 49 Resp: 1073110

Ion Ratio Lower Upper

49 100

128 101.3 51.6 154.9

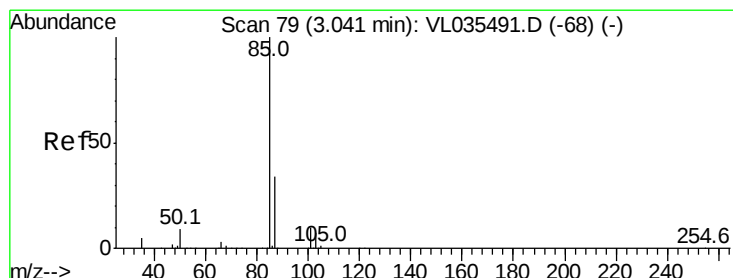
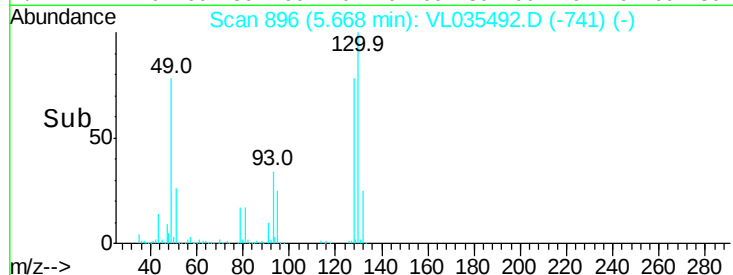
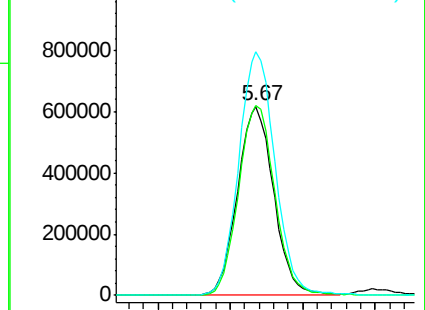
130 130.0 66.1 198.4



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



#2

Dichlorodifluoromethane

Concen: 1.861 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL035492.D

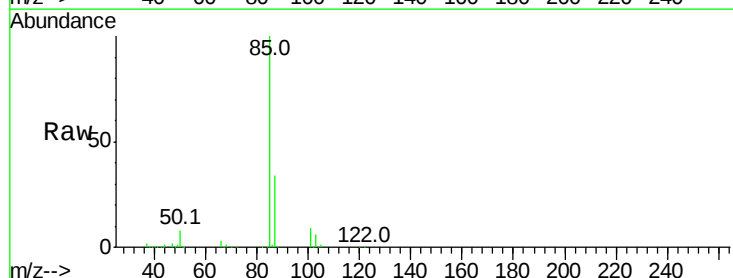
Acq: 23 Aug 2020 8:54

Tgt Ion: 85 Resp: 370056

Ion Ratio Lower Upper

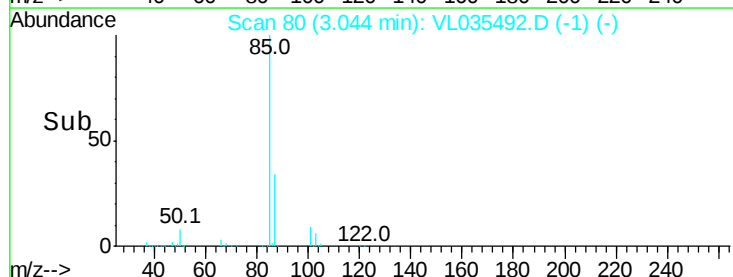
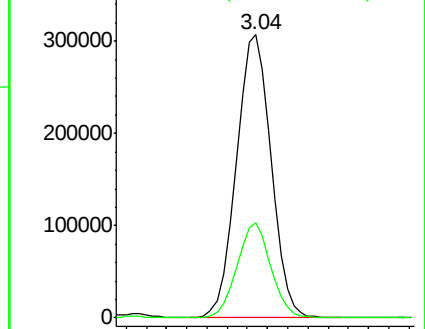
85 100

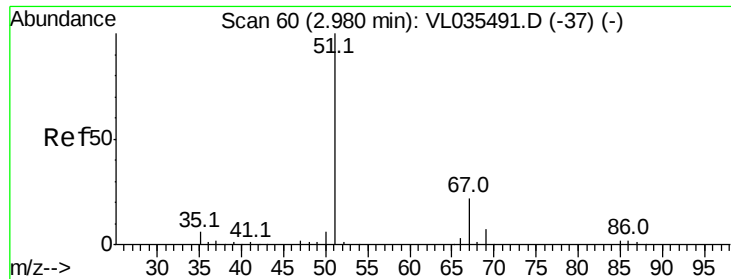
87 33.8 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

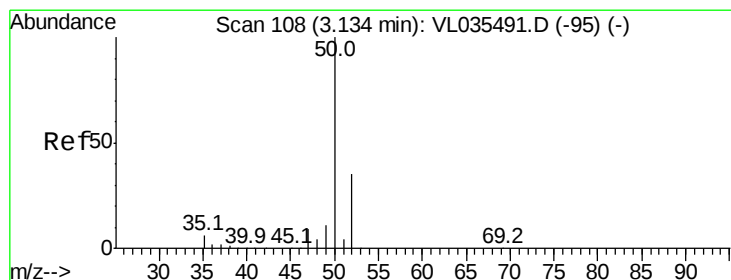
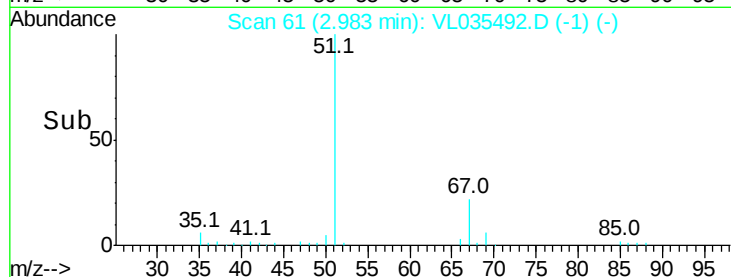
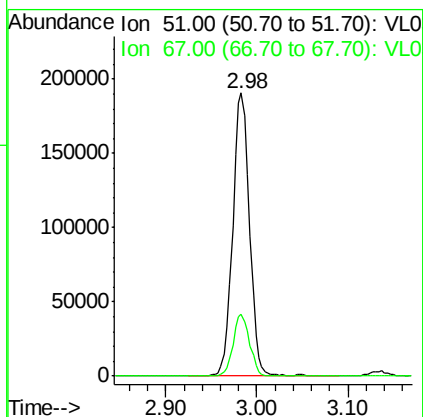
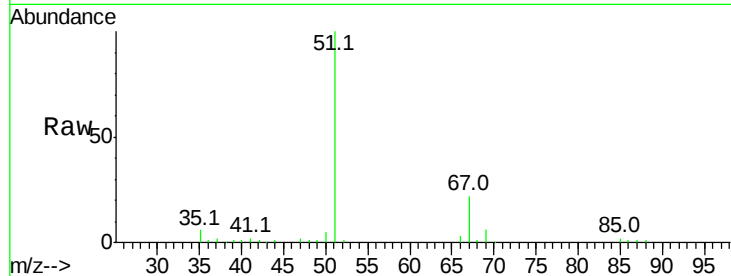




#3
 Chlorodifluoromethane
 Concen: 1.825 ppbv
 RT: 2.98 min Scan# 61
 Delta R.T. 0.00 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

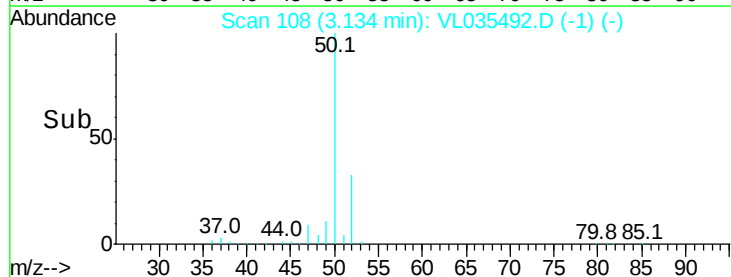
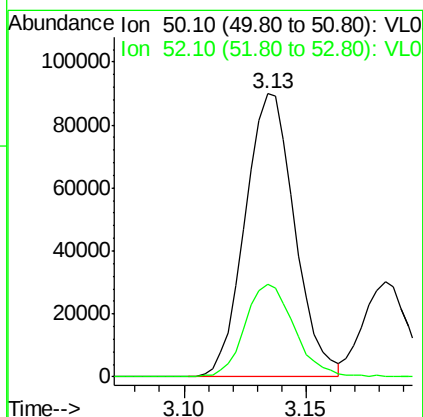
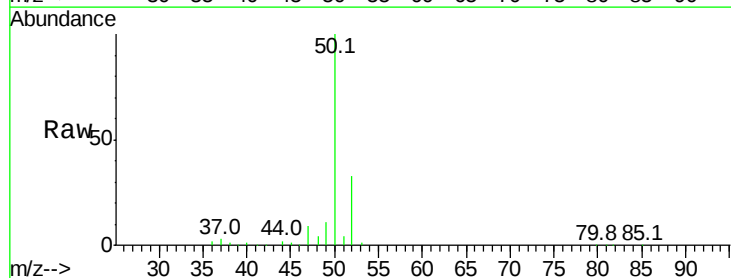
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

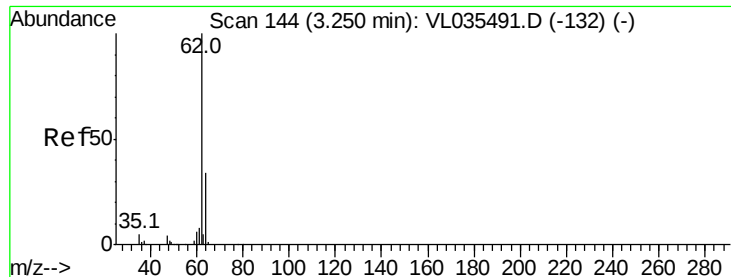
Tgt Ion: 51 Resp: 245563
 Ion Ratio Lower Upper
 51 100
 67 21.4 17.9 26.9



#4
 Chloromethane
 Concen: 1.807 ppbv
 RT: 3.13 min Scan# 108
 Delta R.T. -0.00 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

Tgt Ion: 50 Resp: 126659
 Ion Ratio Lower Upper
 50 100
 52 32.7 28.2 42.2





#5

Vinyl Chloride

Concen: 1.805 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

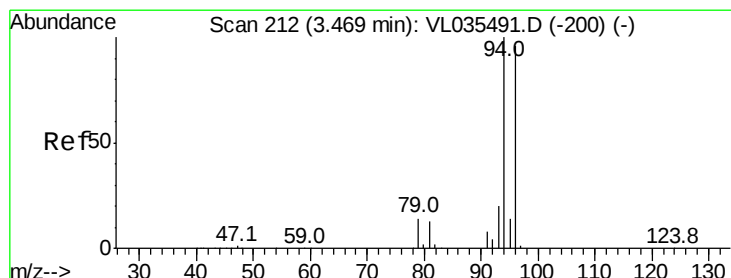
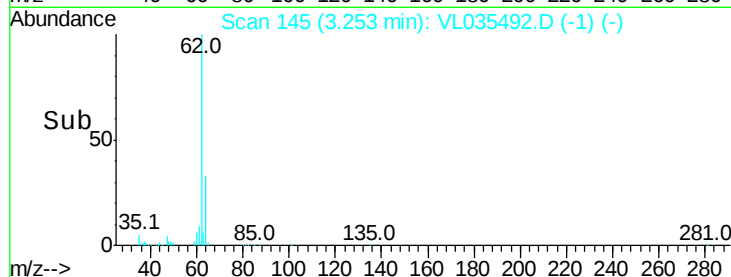
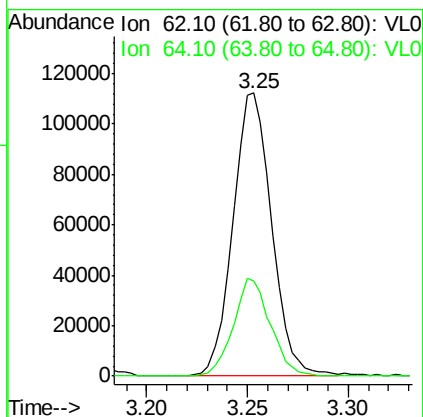
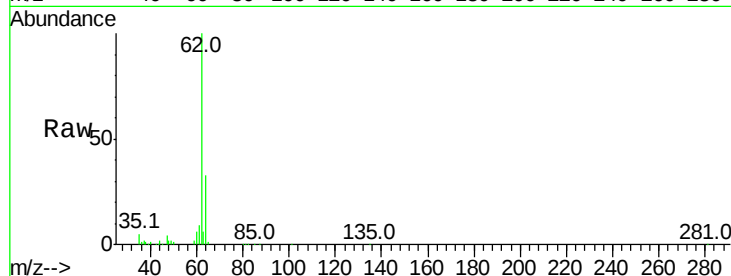
VSTDIC002

Tgt Ion: 62 Resp: 151173

Ion Ratio Lower Upper

62 100

64 33.5 27.1 40.7



#6

Bromomethane

Concen: 1.861 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL035492.D

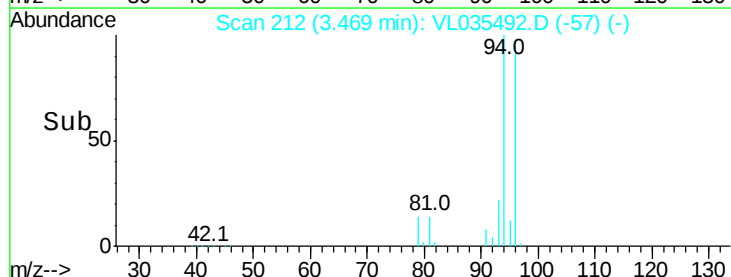
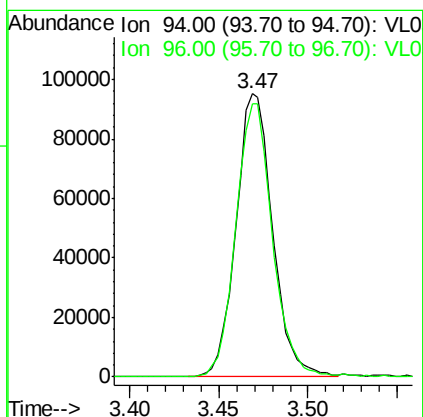
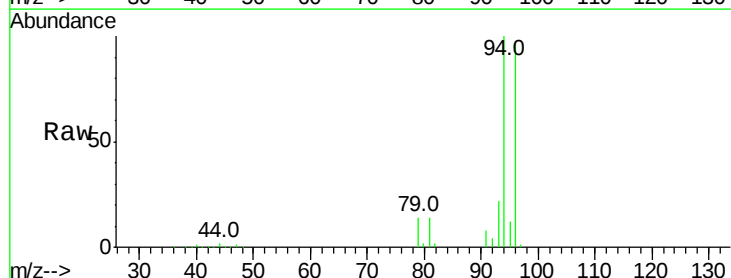
Acq: 23 Aug 2020 8:54

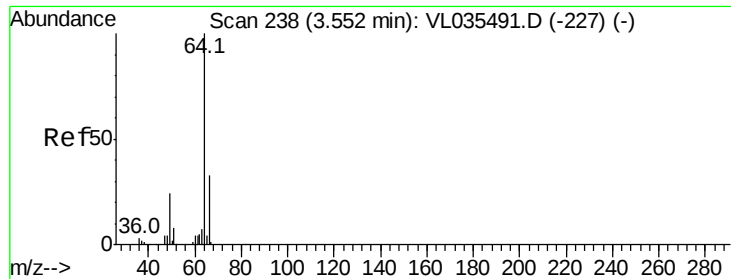
Tgt Ion: 94 Resp: 136338

Ion Ratio Lower Upper

94 100

96 96.6 76.6 115.0





#7

Chloroethane

Concen: 1.814 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

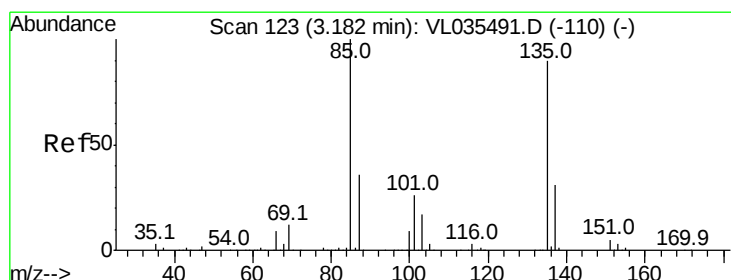
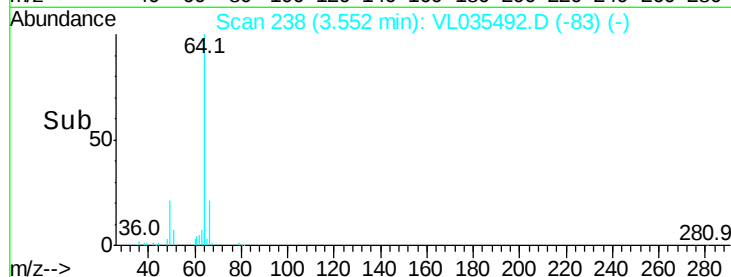
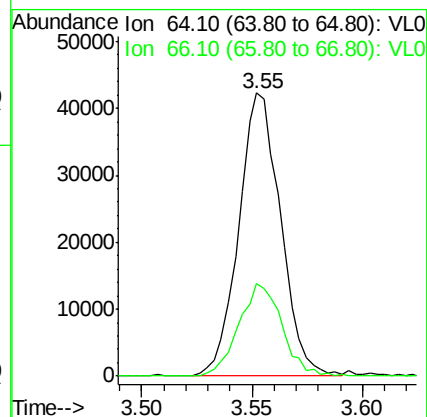
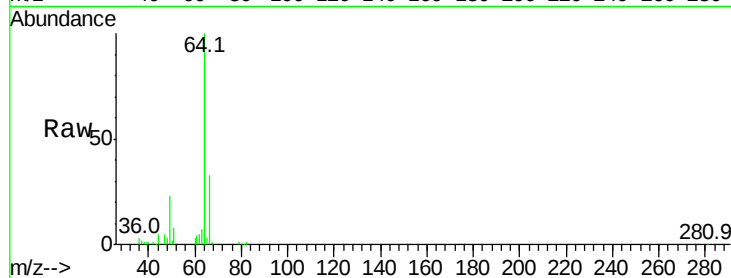
VSTDIC002

Tgt Ion: 64 Resp: 55983

Ion Ratio Lower Upper

64 100

66 32.6 26.2 39.2



#8

Dichlorotetrafluoroethane

Concen: 1.882 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL035492.D

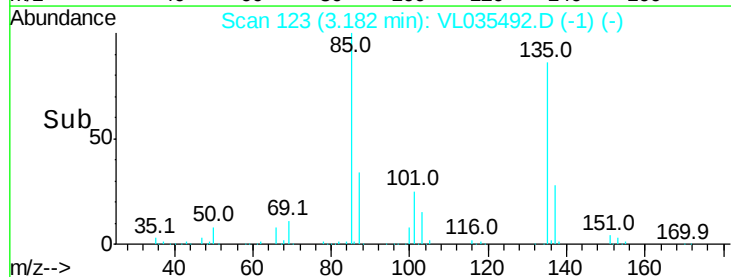
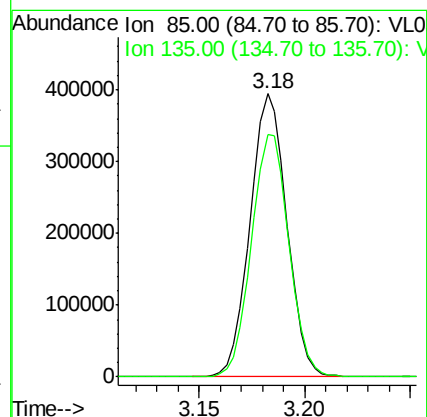
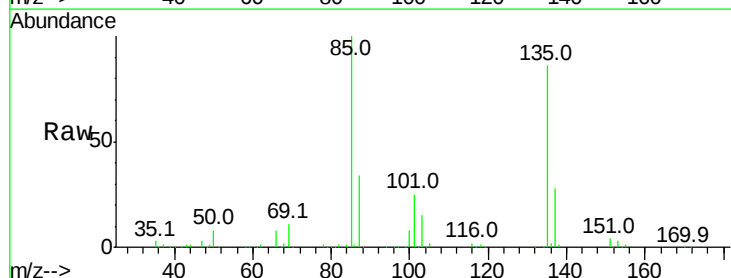
Acq: 23 Aug 2020 8:54

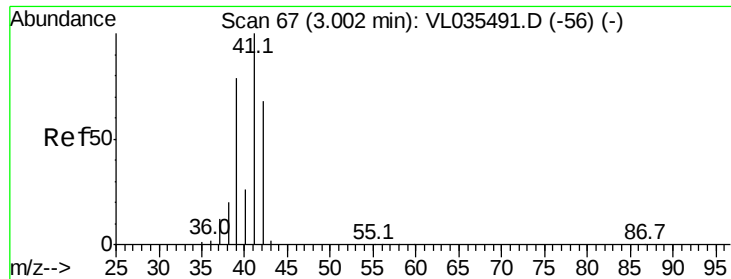
Tgt Ion: 85 Resp: 479197

Ion Ratio Lower Upper

85 100

135 87.5 71.8 107.6





#9

Propene

Concen: 1.708 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

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ClientSampleId :

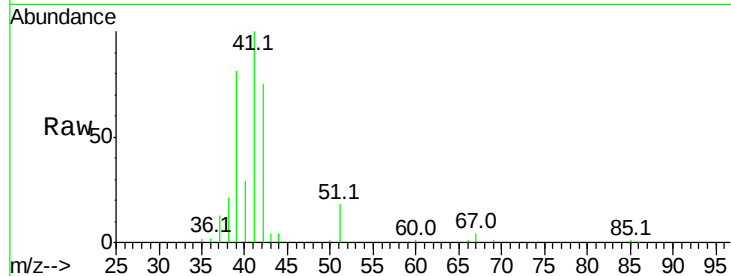
VSTDIC002

Tgt Ion: 41 Resp: 92367

Ion Ratio Lower Upper

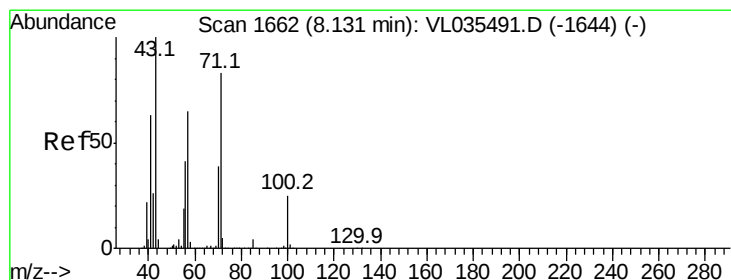
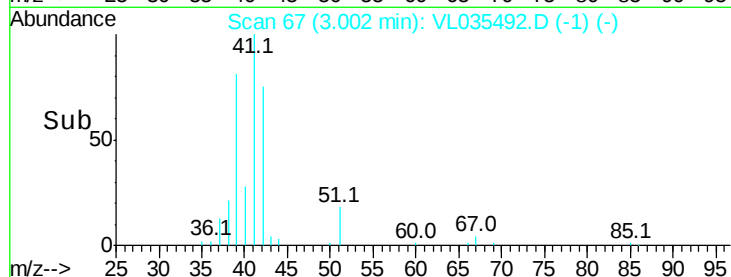
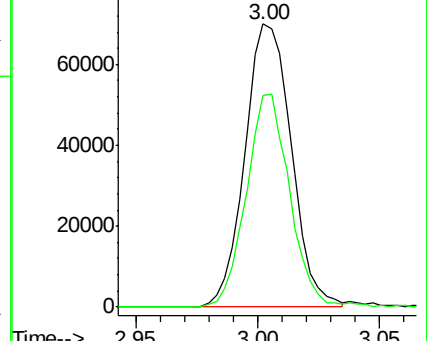
41 100

42 70.9 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: 1.810 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035492.D

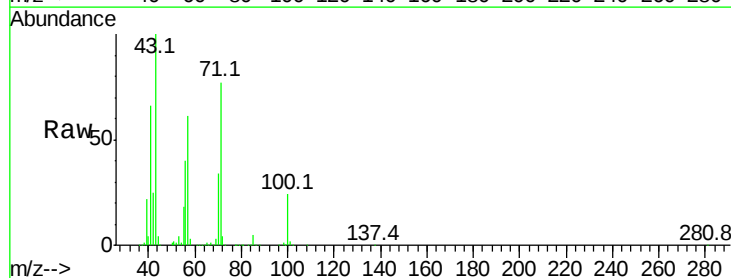
Acq: 23 Aug 2020 8:54

Tgt Ion: 43 Resp: 256682

Ion Ratio Lower Upper

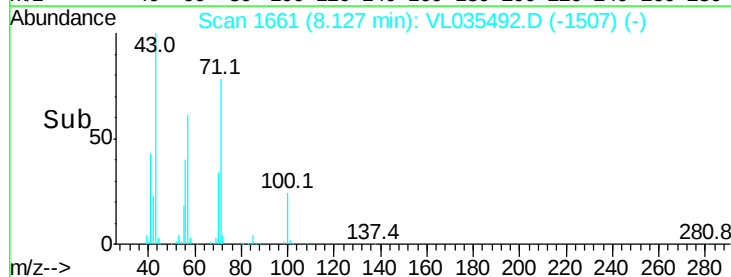
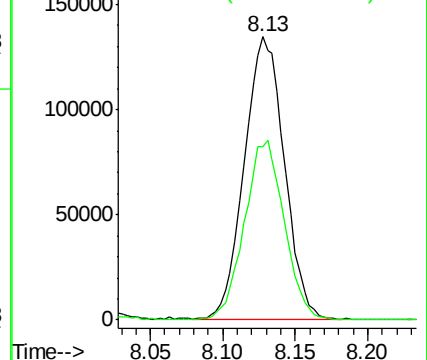
43 100

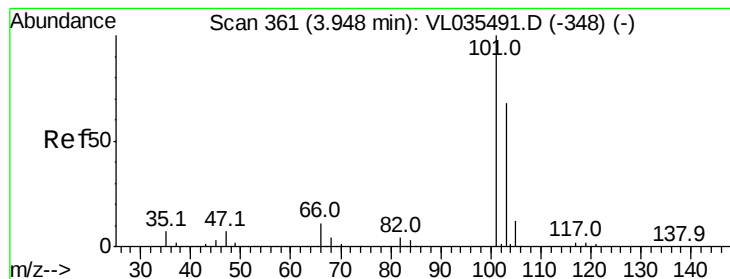
57 63.6 51.4 77.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 1.856 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

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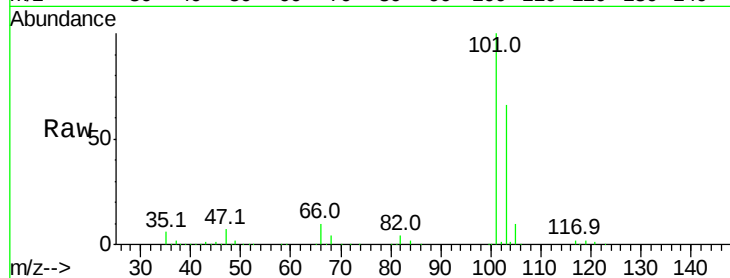
VSTDIC002

Tgt Ion:101 Resp: 579299

Ion Ratio Lower Upper

101 100

103 66.4 54.4 81.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.95

400000

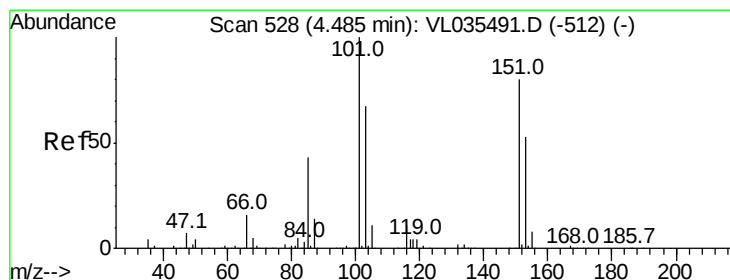
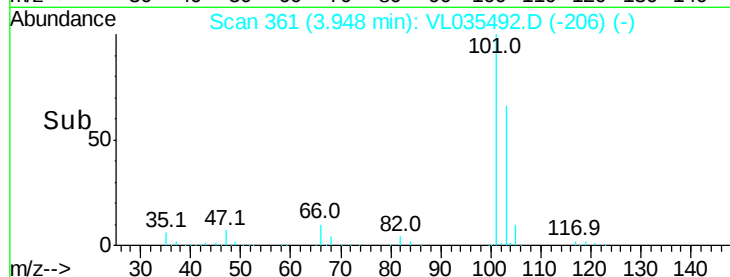
300000

200000

100000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.844 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.00 min

Lab File: VL035492.D

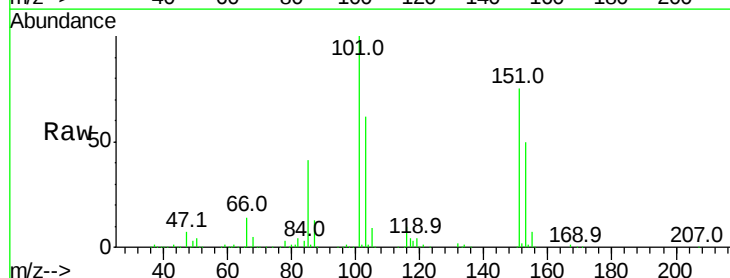
Acq: 23 Aug 2020 8:54

Tgt Ion:101 Resp: 428962

Ion Ratio Lower Upper

101 100

151 80.7 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

300000

250000

200000

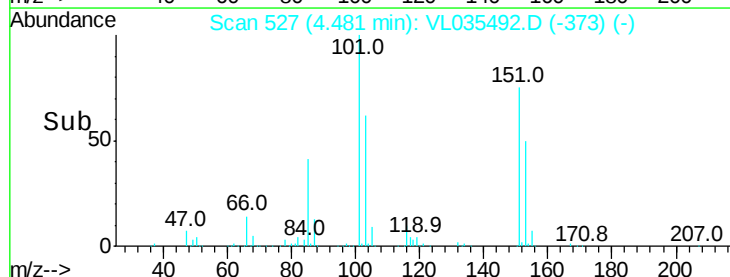
150000

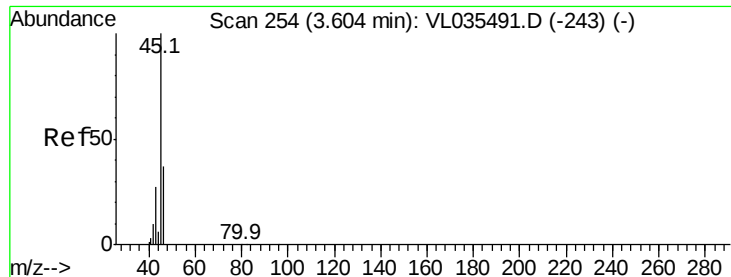
100000

50000

0

Time-->





#13

Ethanol

Concen: 1.562 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

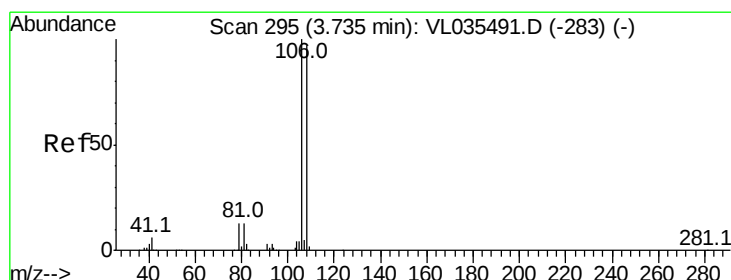
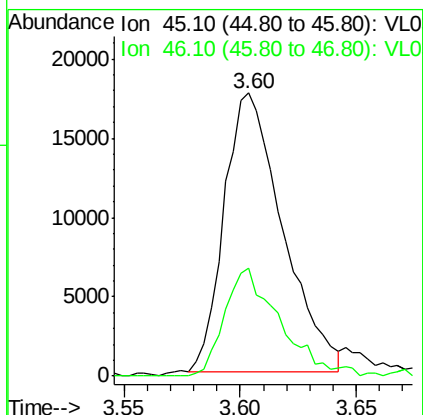
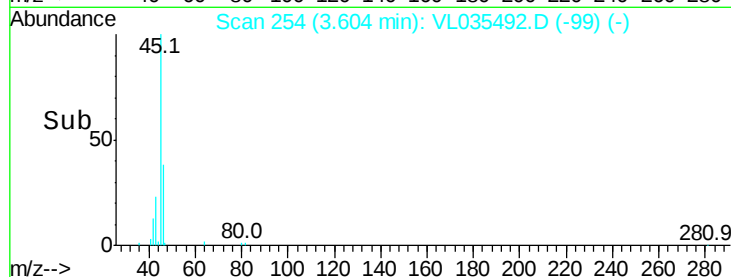
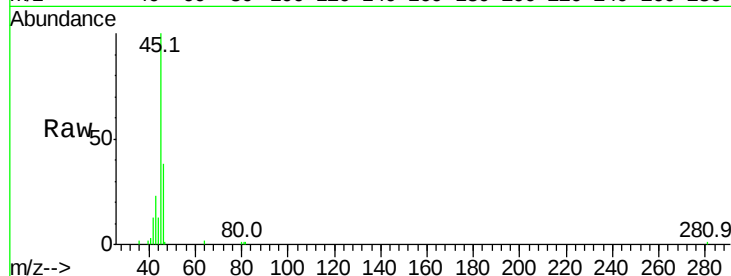
VSTDIC002

Tgt Ion: 45 Resp: 30949

Ion Ratio Lower Upper

45 100

46 36.8 14.4 57.6



#14

Bromoethene

Concen: 1.841 ppbv

RT: 3.74 min Scan# 295

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

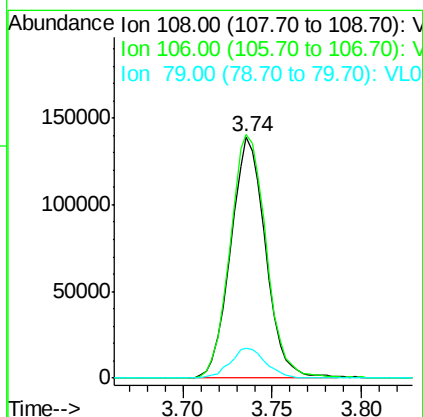
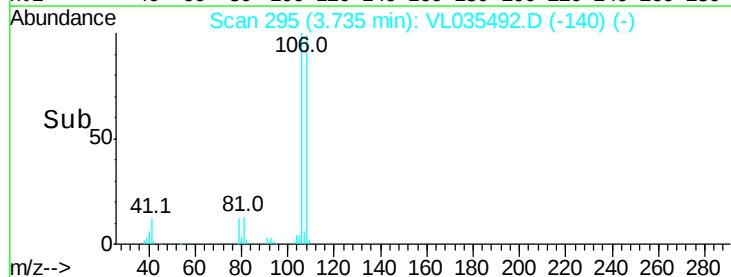
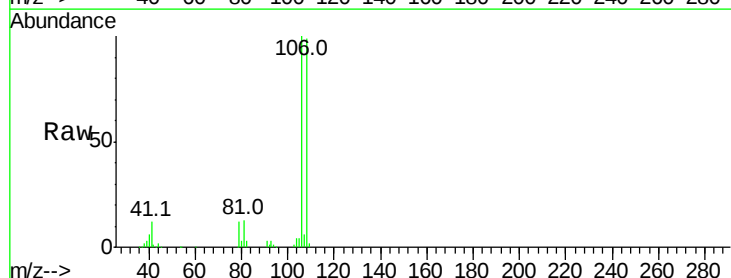
Tgt Ion: 108 Resp: 189231

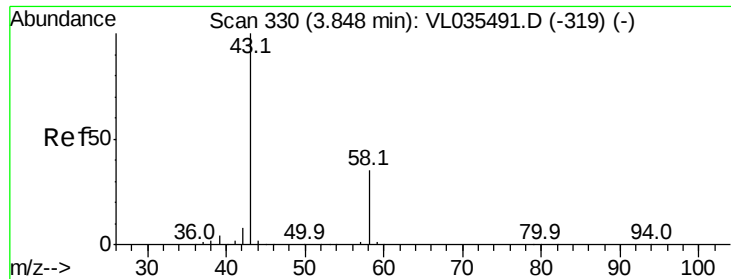
Ion Ratio Lower Upper

108 100

106 105.2 83.6 125.4

79 13.1 10.7 16.1





#15

Acetone

Concen: 1.929 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

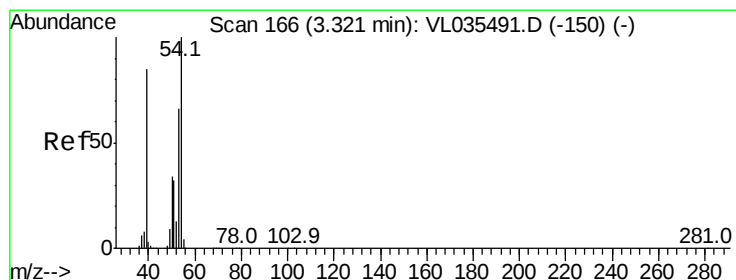
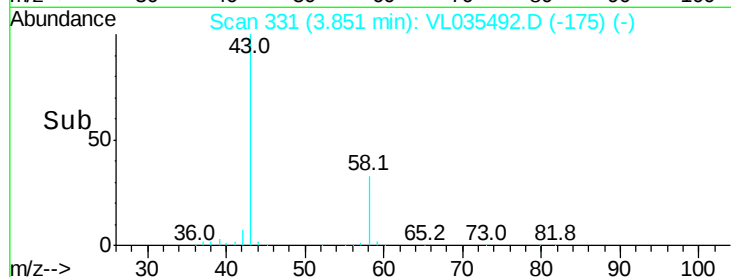
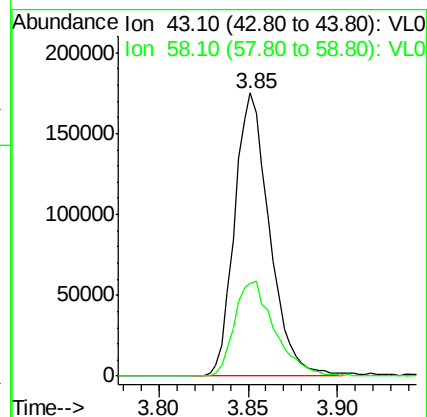
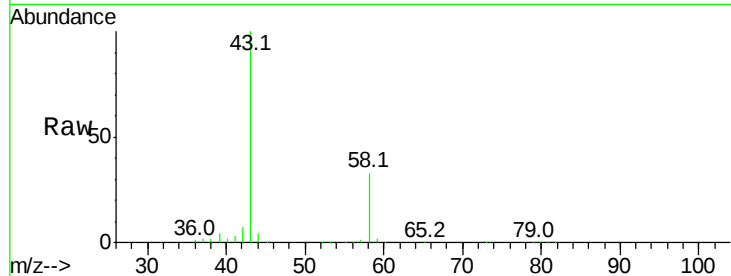
VSTDIC002

Tgt Ion: 43 Resp: 238299

Ion Ratio Lower Upper

43 100

58 38.7 27.8 41.6



#16

1,3-Butadiene

Concen: 1.852 ppbv

RT: 3.32 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL035492.D

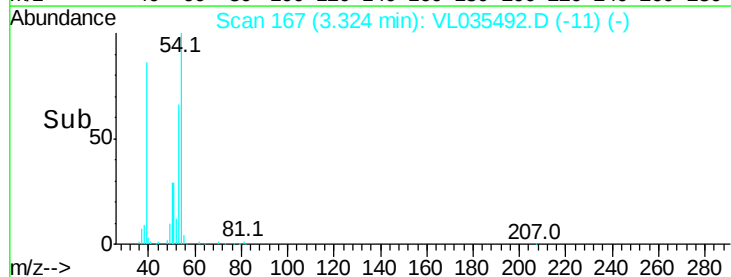
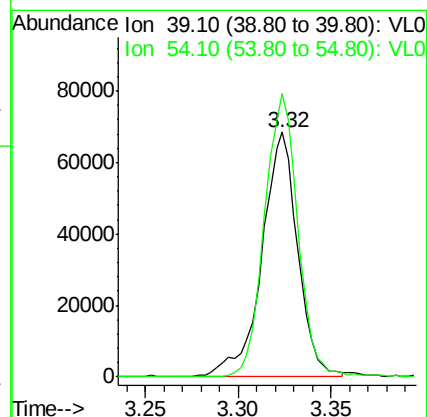
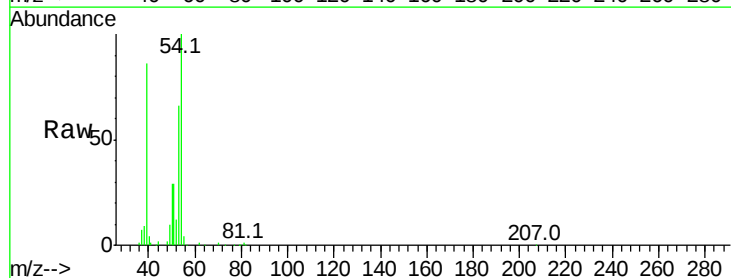
Acq: 23 Aug 2020 8:54

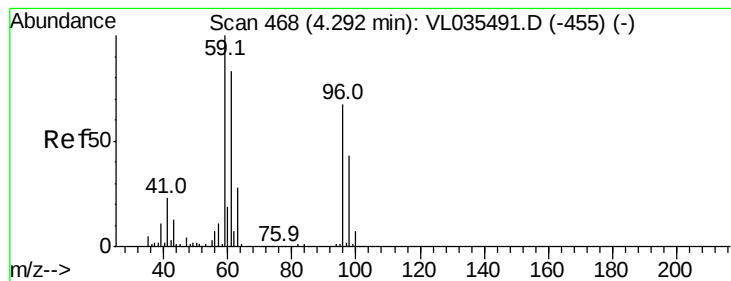
Tgt Ion: 39 Resp: 92753

Ion Ratio Lower Upper

39 100

54 108.3 89.3 133.9





#17

tert-Butyl alcohol

Concen: 1.840 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

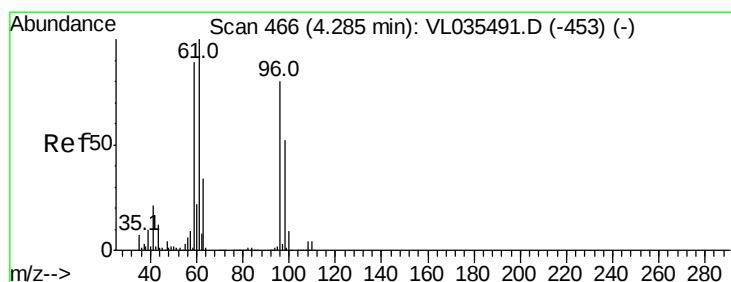
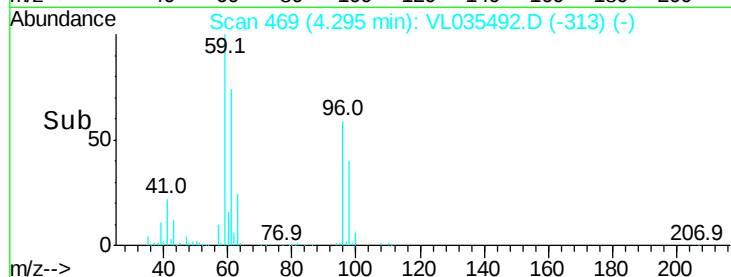
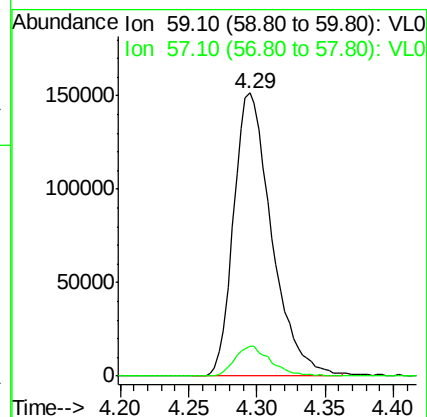
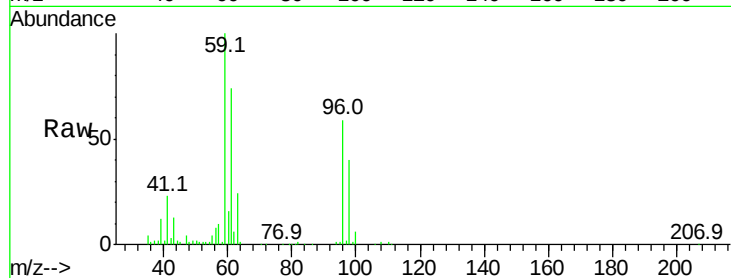
VSTDIC002

Tgt Ion: 59 Resp: 293665

Ion Ratio Lower Upper

59 100

57 10.2 8.4 12.6



#18

1,1-Dichloroethene

Concen: 1.831 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

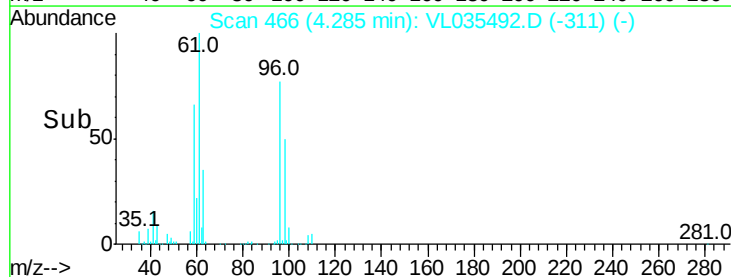
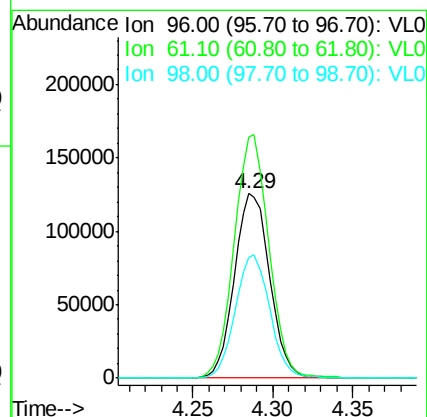
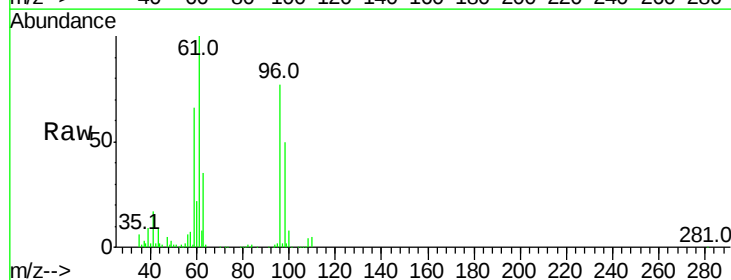
Tgt Ion: 96 Resp: 188053

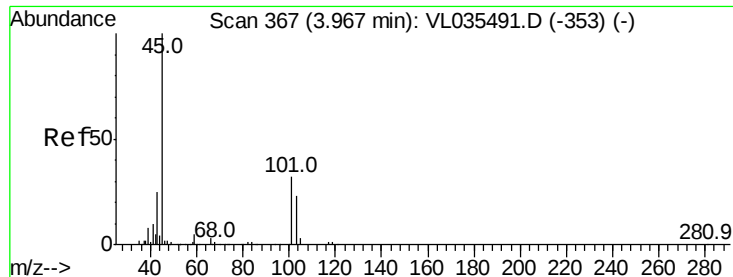
Ion Ratio Lower Upper

96 100

61 130.4 99.9 149.9

98 65.7 52.2 78.4





#19

Isopropyl Alcohol

Concen: 1.706 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

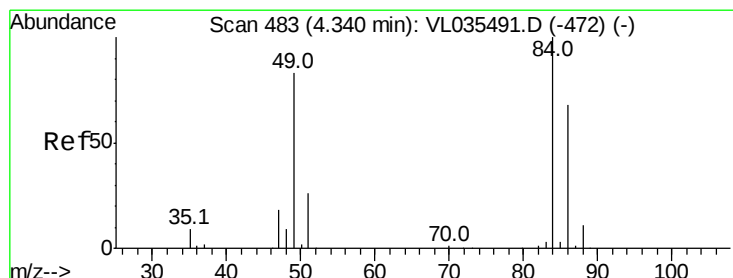
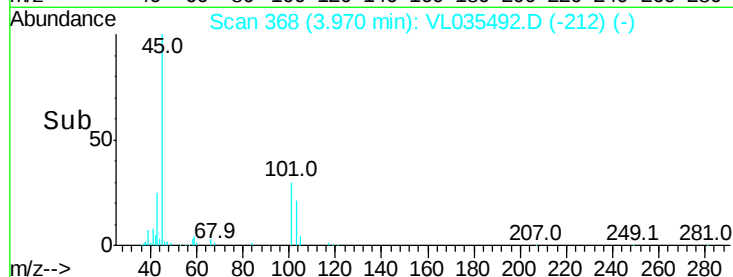
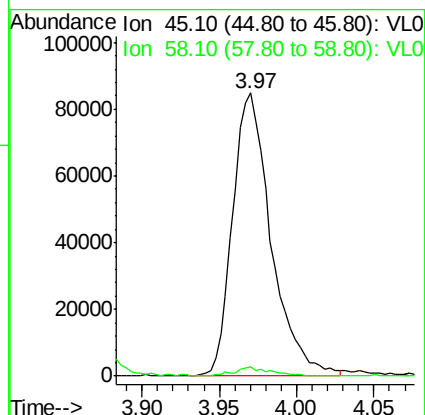
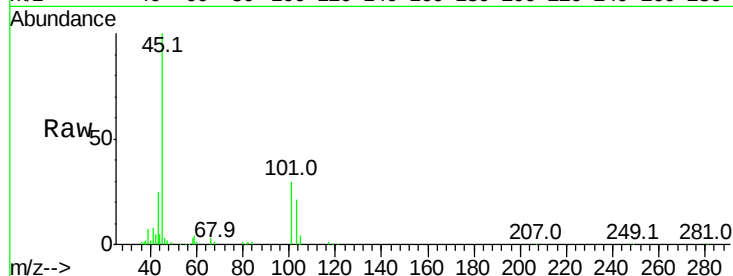
VSTDIC002

Tgt Ion: 45 Resp: 145247

Ion Ratio Lower Upper

45 100

58 3.5 1.8 2.8#



#20

Methylene Chloride

Concen: 2.973 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Tgt Ion: 84 Resp: 296297

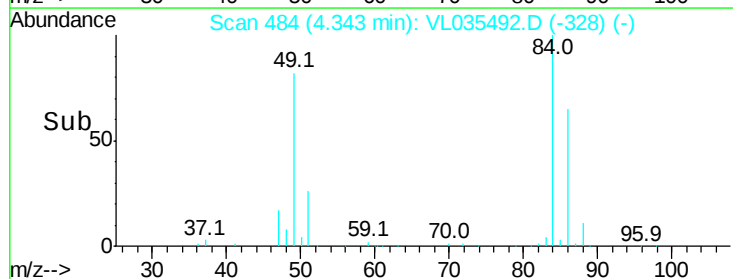
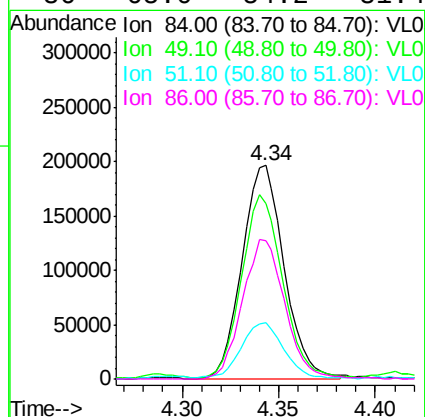
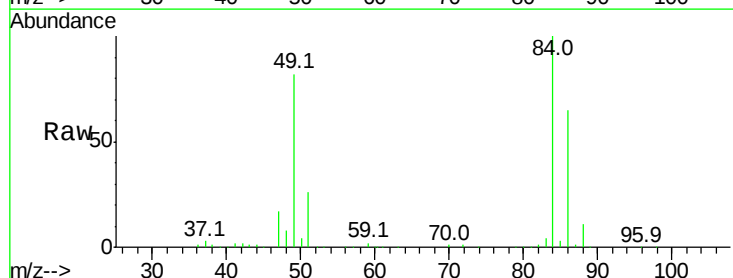
Ion Ratio Lower Upper

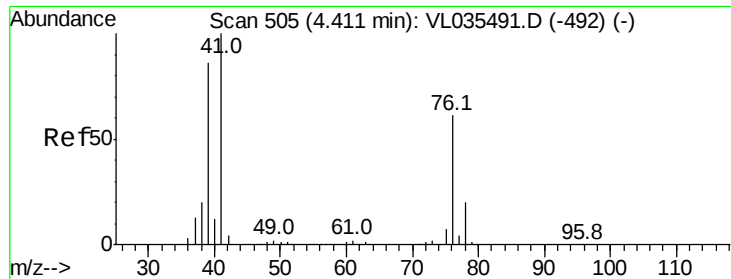
84 100

49 81.6 66.3 99.5

51 25.7 21.1 31.7

86 65.0 54.2 81.4





#21

Allyl Chloride

Concen: 1.853 ppbv

RT: 4.41 min Scan# 505

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

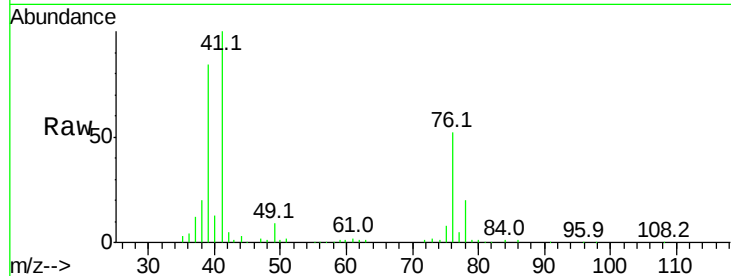
Tgt Ion: 41 Resp: 116307

Ion Ratio Lower Upper

41 100

76 57.4 47.3 70.9

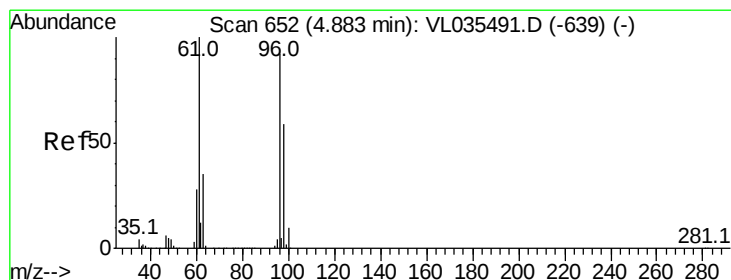
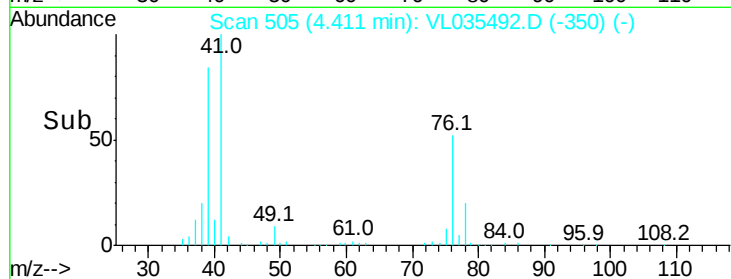
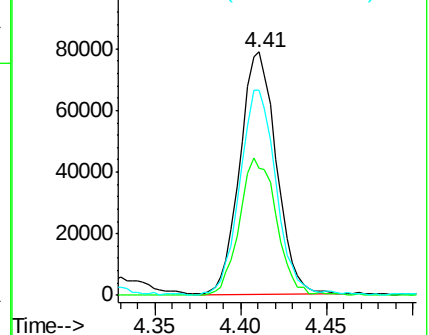
39 84.7 69.0 103.4



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: 1.819 ppbv

RT: 4.88 min Scan# 652

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

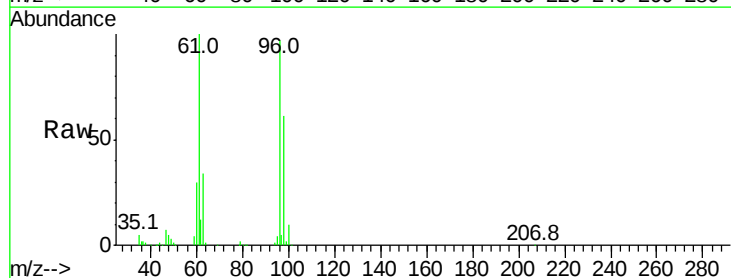
Tgt Ion: 96 Resp: 199325

Ion Ratio Lower Upper

96 100

61 102.9 86.5 129.7

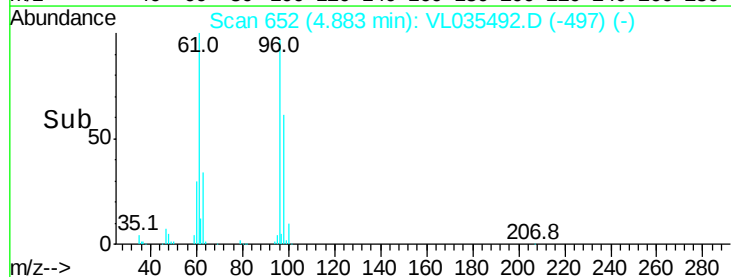
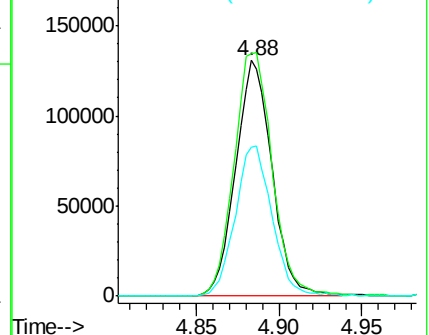
98 63.2 51.4 77.2

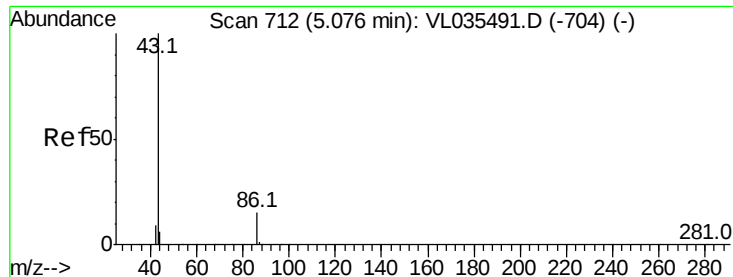


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 1.791 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 316184

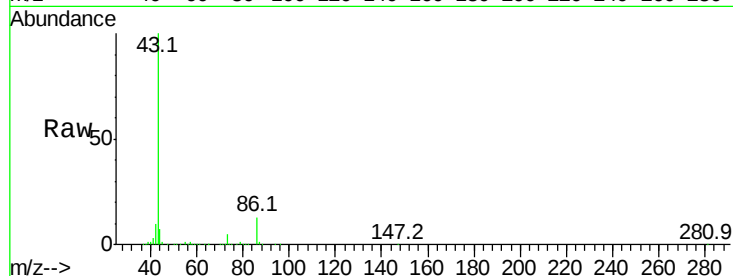
Ion Ratio Lower Upper

43 100

86 13.2 10.9 16.3

42 10.2 7.8 11.8

44 6.2 4.4 6.6

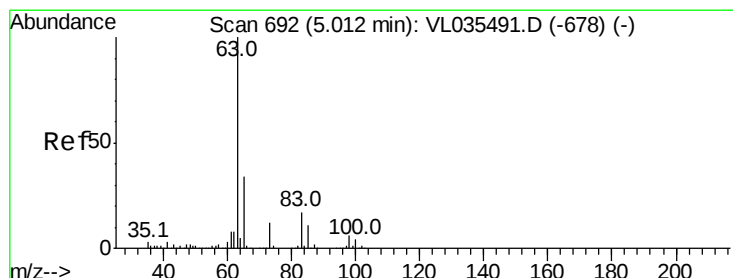
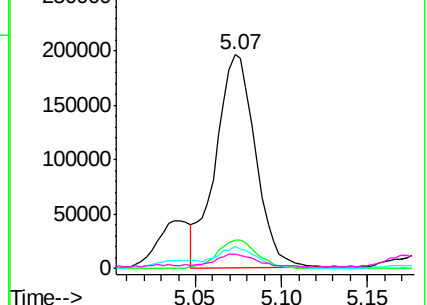
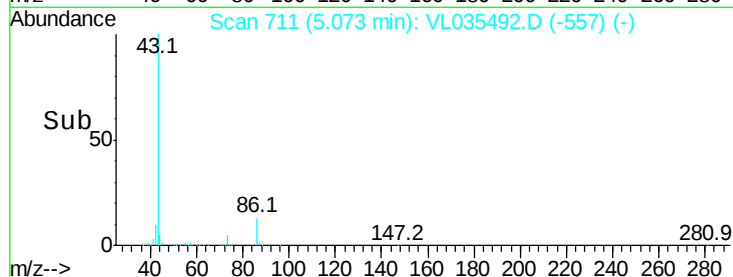


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.861 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

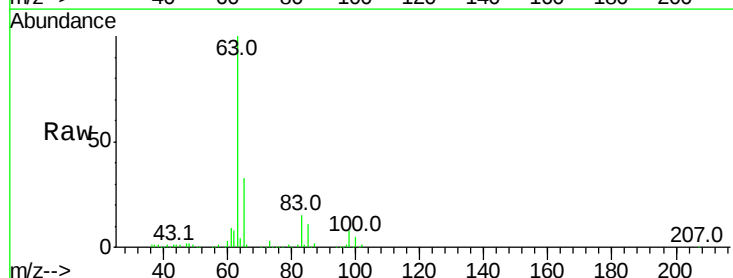
Tgt Ion: 63 Resp: 327893

Ion Ratio Lower Upper

63 100

98 7.4 3.1 9.4

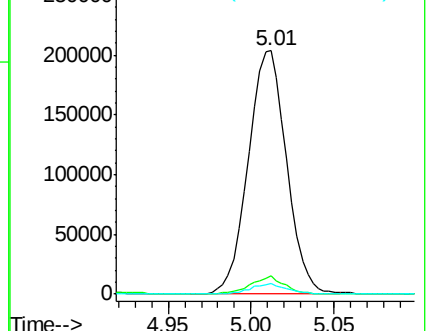
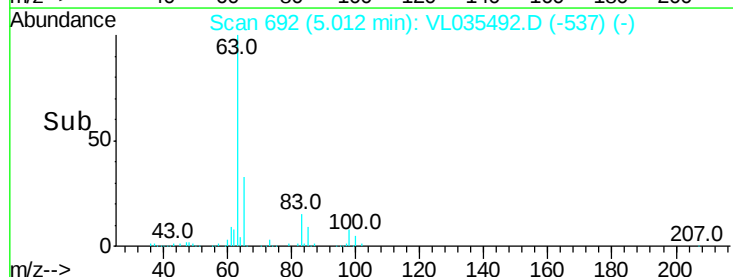
100 4.6 2.0 6.0

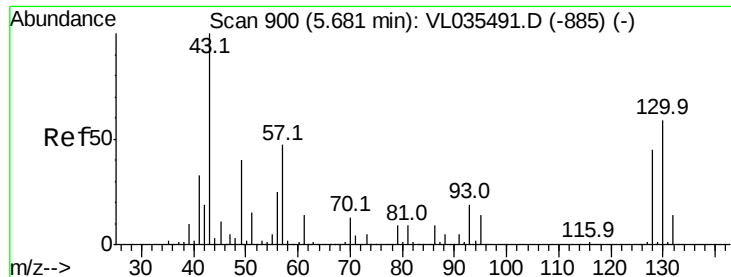


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

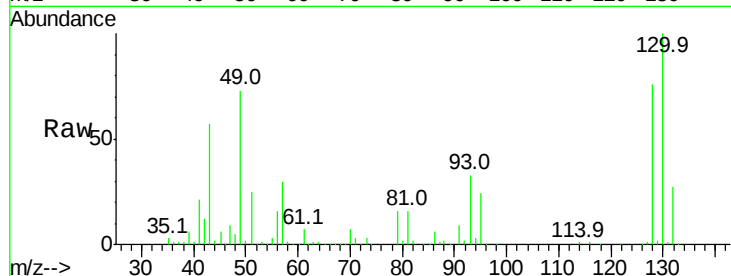




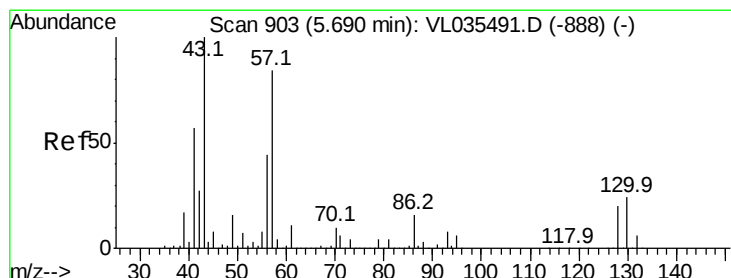
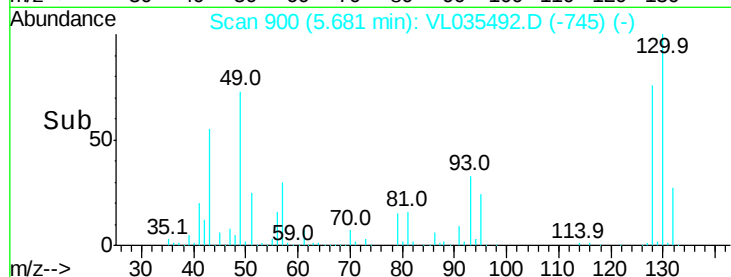
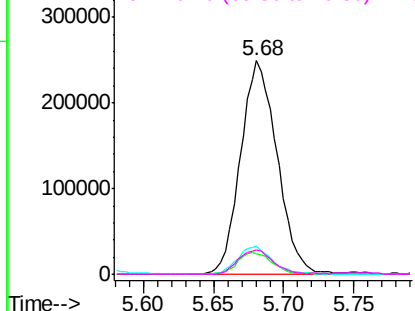
#25
Ethyl Acetate
Concen: 1.883 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL035492.D
Acq: 23 Aug 2020 8:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:	43	Resp:	452672
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.4	12.6
61	12.4	10.6	16.0
70	10.9	9.4	14.2

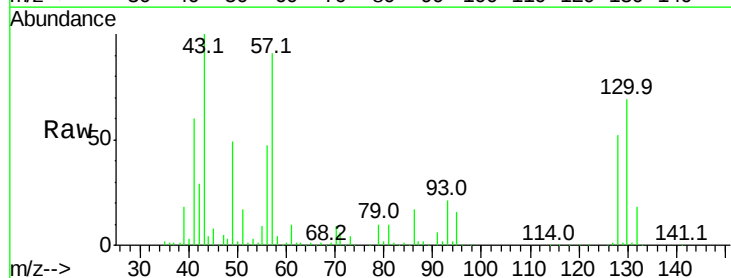


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

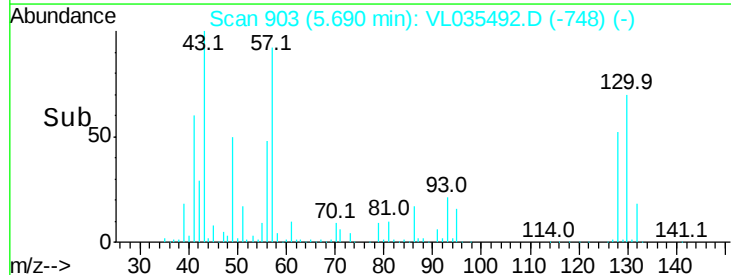
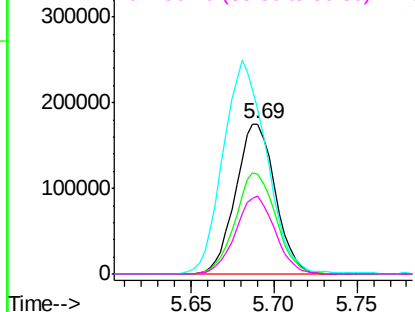


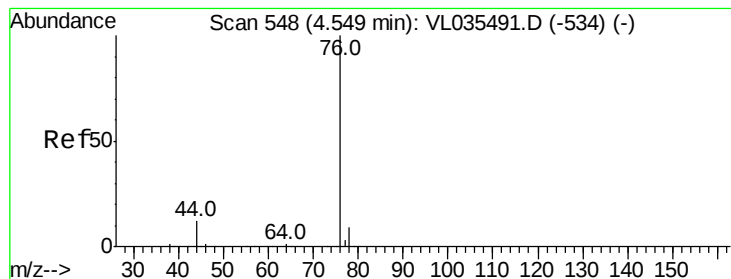
#26
Hexane
Concen: 2.152 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL035492.D
Acq: 23 Aug 2020 8:54

Tgt Ion:	57	Resp:	291827
Ion	Ratio	Lower	Upper
57	100		
41	69.8	56.7	85.1
43	156.5	141.9	212.9
56	51.5	41.9	62.9



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 1.834 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

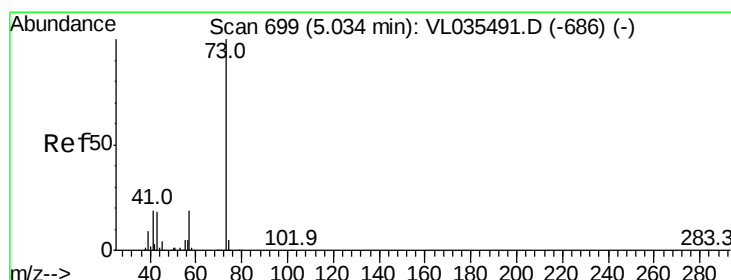
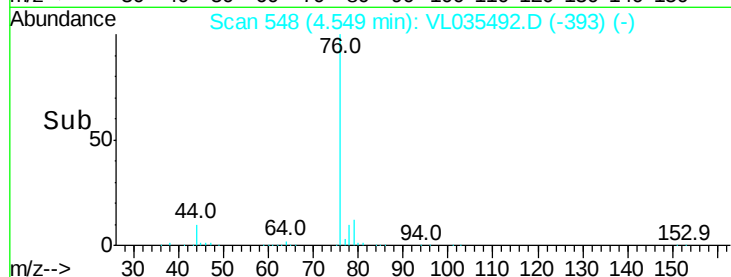
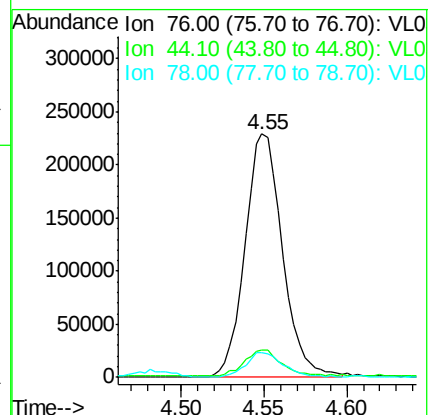
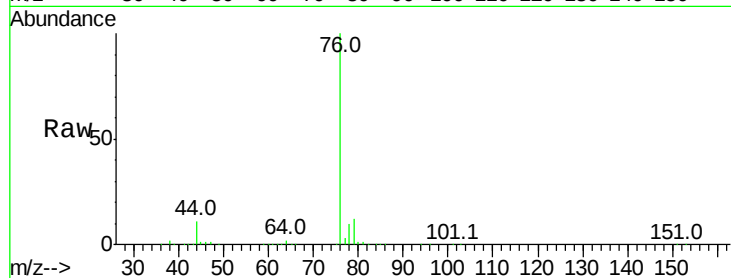
Tgt Ion: 76 Resp: 359596

Ion Ratio Lower Upper

76 100

44 11.3 9.2 13.8

78 10.8 7.8 11.8



#28

Methyl tert-Butyl Ether

Concen: 1.791 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.01 min

Lab File: VL035492.D

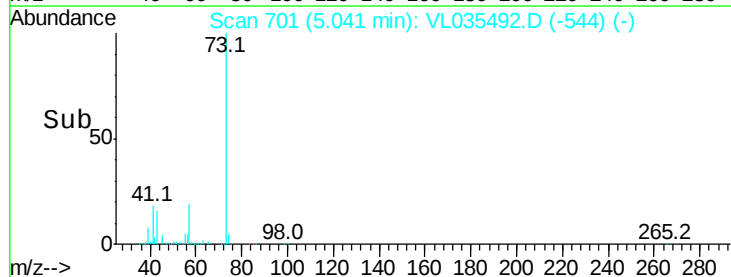
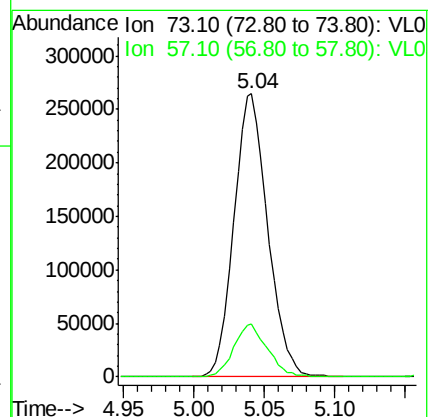
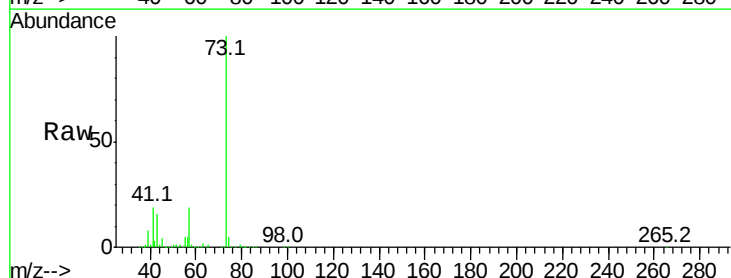
Acq: 23 Aug 2020 8:54

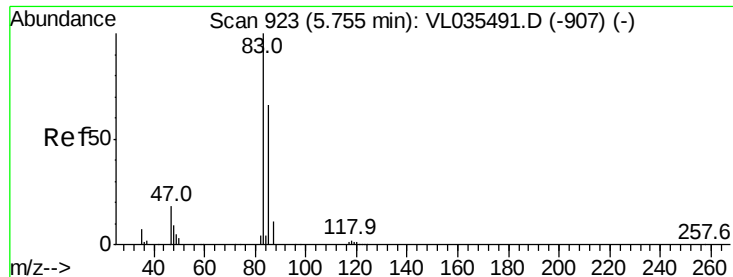
Tgt Ion: 73 Resp: 443640

Ion Ratio Lower Upper

73 100

57 18.6 15.1 22.7





#29

Chloroform

Concen: 1.866 ppbv

RT: 5.75 min Scan# 922

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

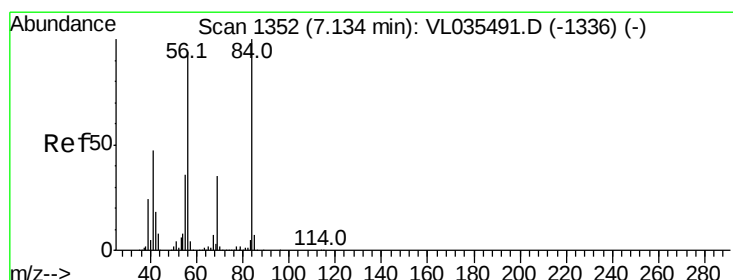
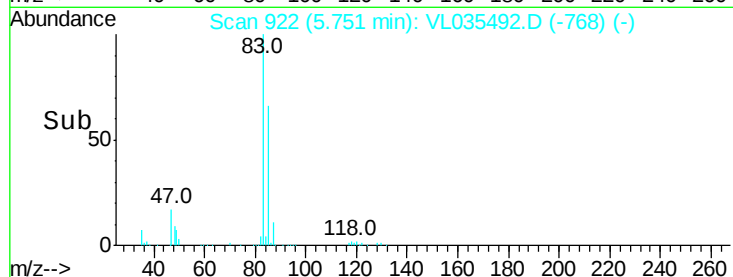
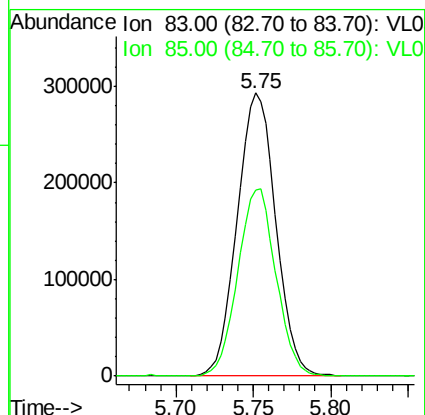
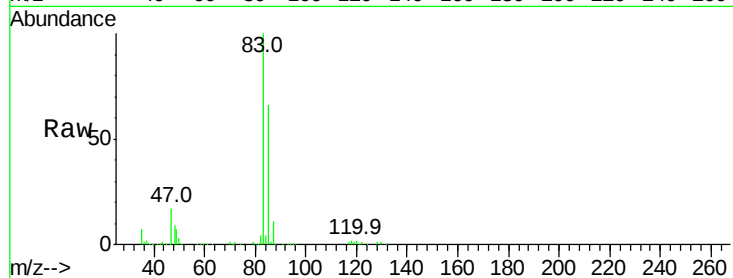
VSTDIC002

Tgt Ion: 83 Resp: 508551

Ion Ratio Lower Upper

83 100

85 65.8 53.1 79.7



#30

Cyclohexane

Concen: 1.823 ppbv

RT: 7.13 min Scan# 1352

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

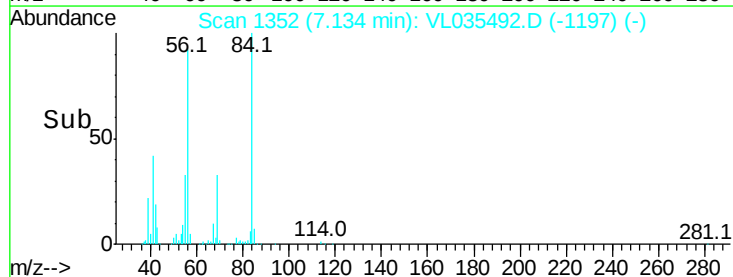
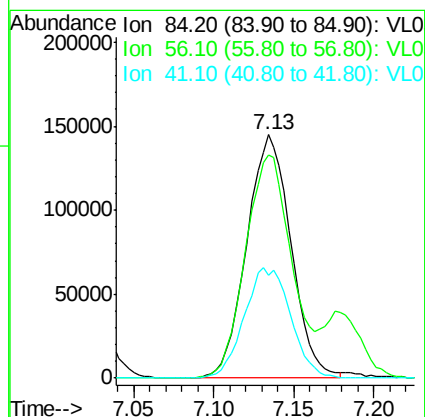
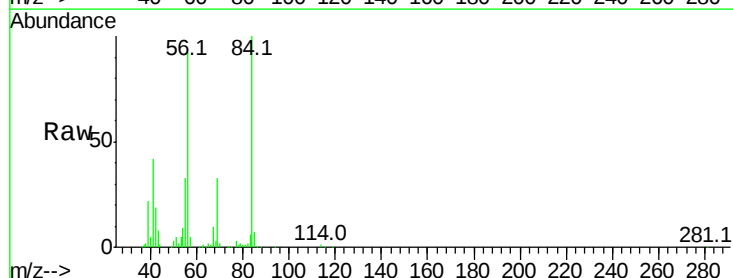
Tgt Ion: 84 Resp: 274355

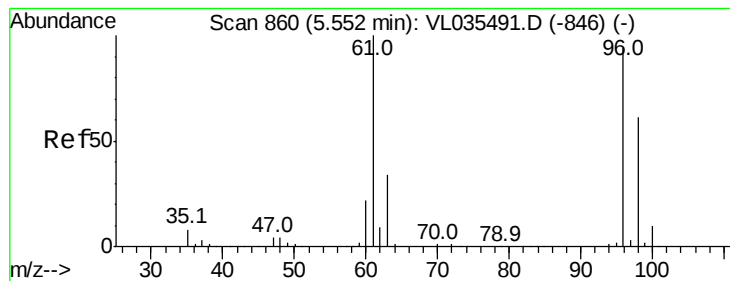
Ion Ratio Lower Upper

84 100

56 119.5 79.9 119.9

41 47.5 37.6 56.4





#31

cis-1,2-Dichloroethene

Concen: 1.783 ppbv

RT: 5.55 min Scan# 859

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

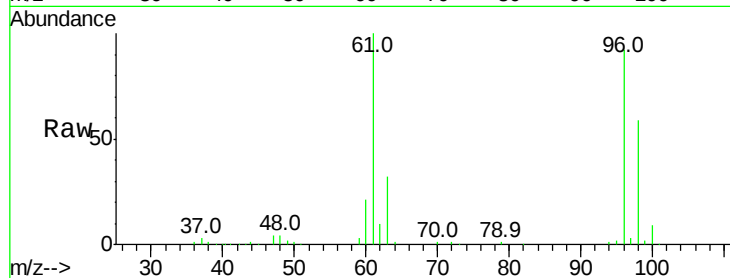
Tgt Ion: 61 Resp: 254297

Ion Ratio Lower Upper

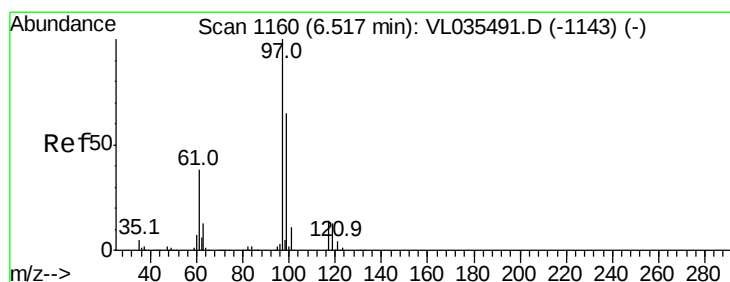
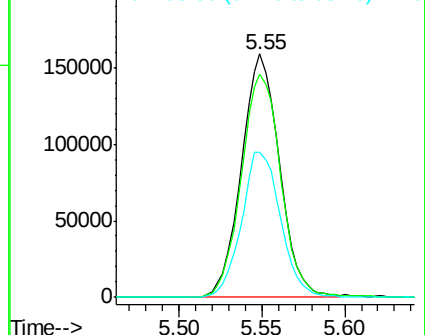
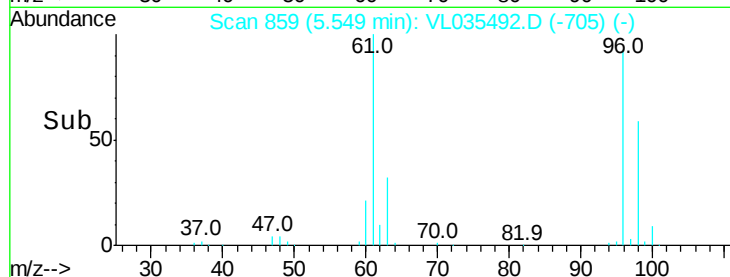
61 100

96 91.6 75.5 113.3

98 59.4 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: 1.898 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

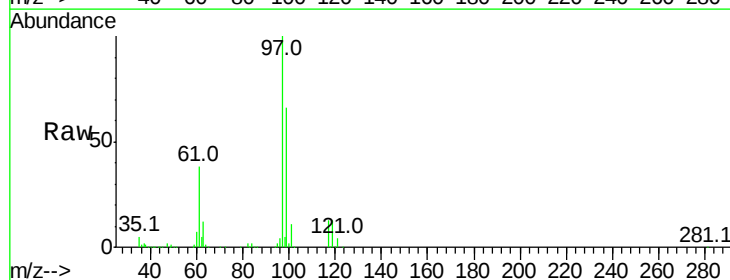
Tgt Ion: 97 Resp: 484709

Ion Ratio Lower Upper

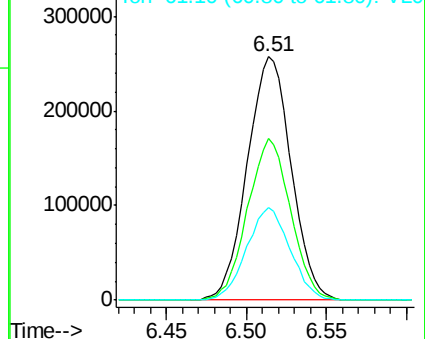
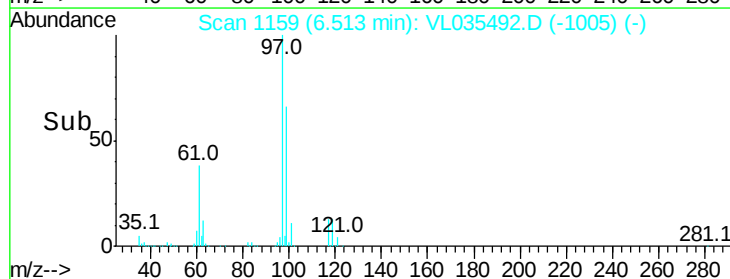
97 100

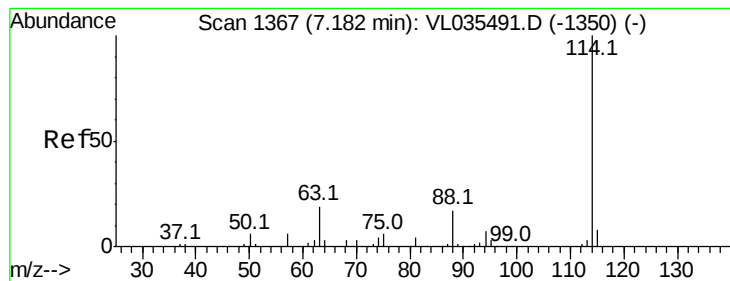
99 65.2 52.7 79.1

61 37.8 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# 1366

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

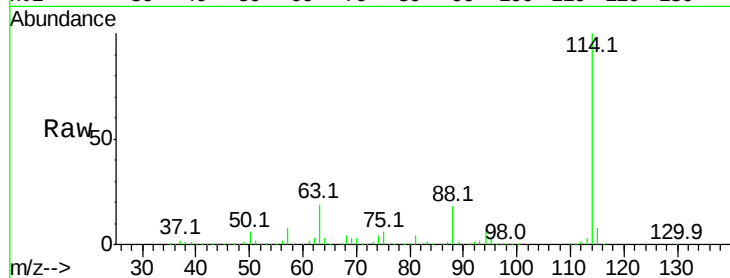
Tgt Ion:114 Resp: 4760787

Ion Ratio Lower Upper

114 100

63 17.8 14.3 21.5

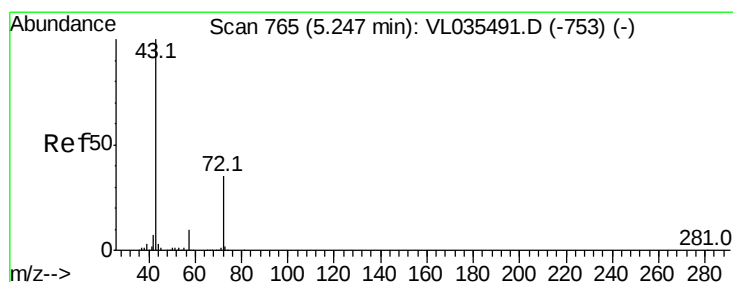
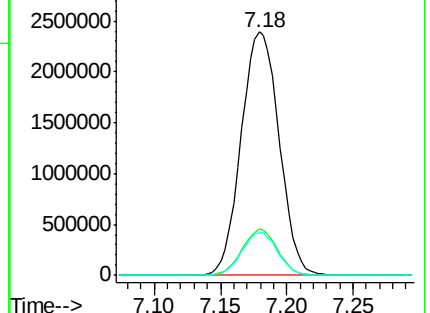
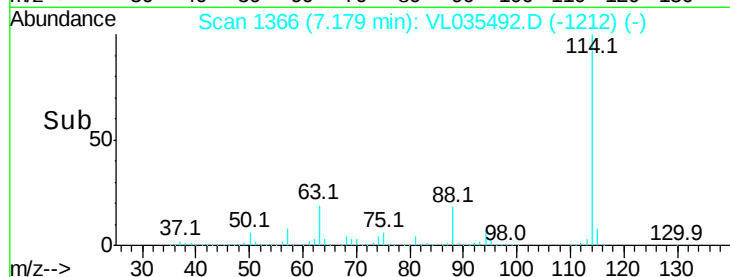
88 16.7 13.2 19.8



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



#34

2-Butanone

Concen: 1.829 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.00 min

Lab File: VL035492.D

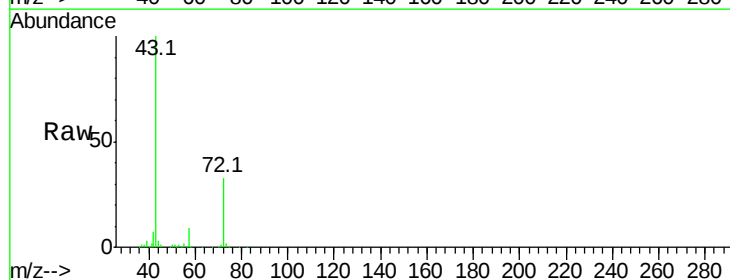
Acq: 23 Aug 2020 8:54

Tgt Ion: 43 Resp: 290947

Ion Ratio Lower Upper

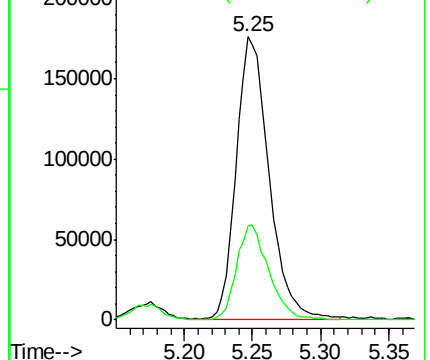
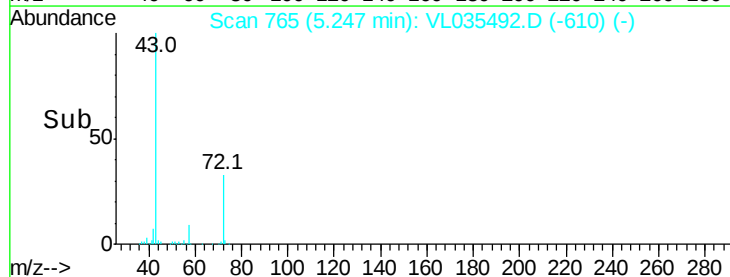
43 100

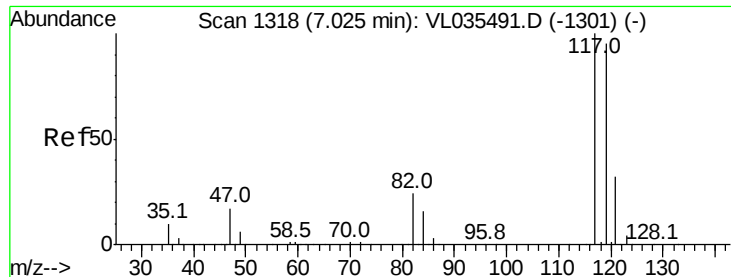
72 33.5 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 2.007 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

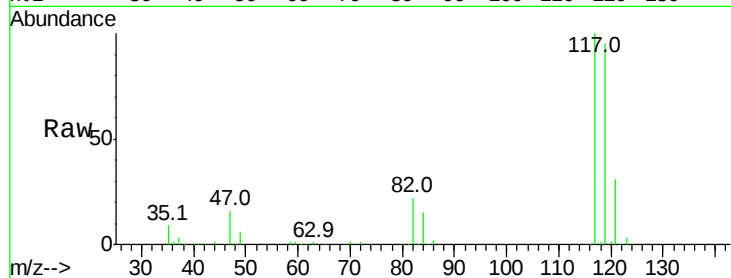
Tgt Ion: 117 Resp: 508052

Ion Ratio Lower Upper

117 100

119 95.1 75.6 113.4

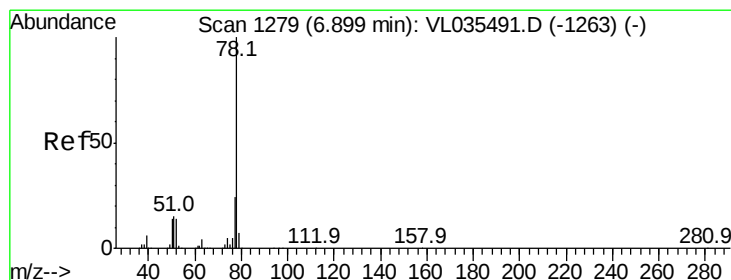
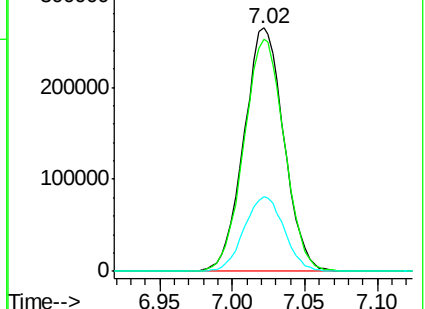
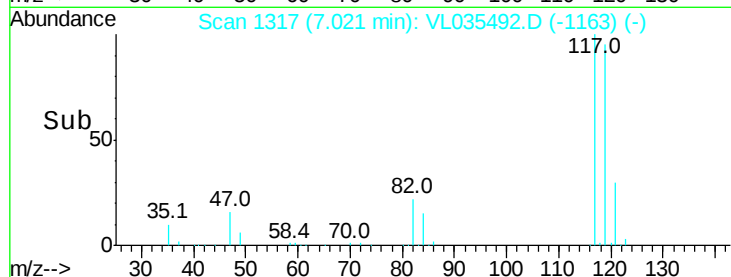
121 30.7 25.6 38.4



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: 1.876 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

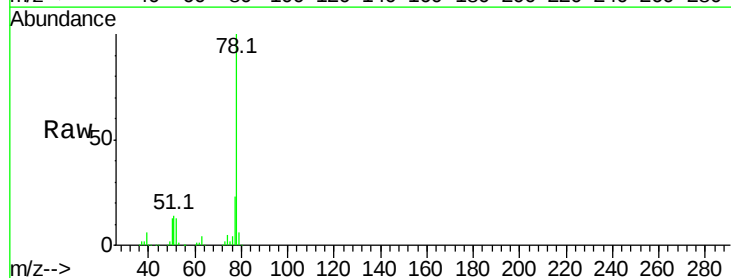
Tgt Ion: 78 Resp: 655452

Ion Ratio Lower Upper

78 100

77 23.2 19.2 28.8

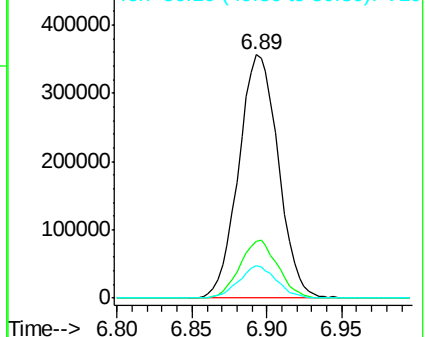
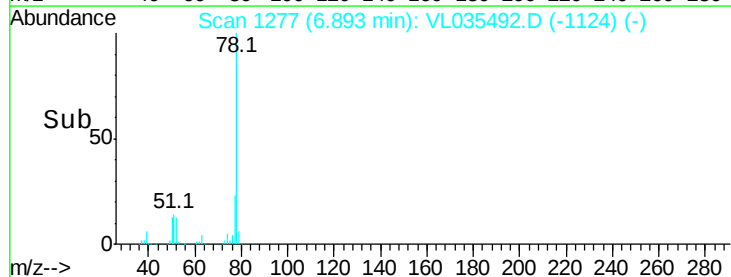
50 13.1 11.0 16.4

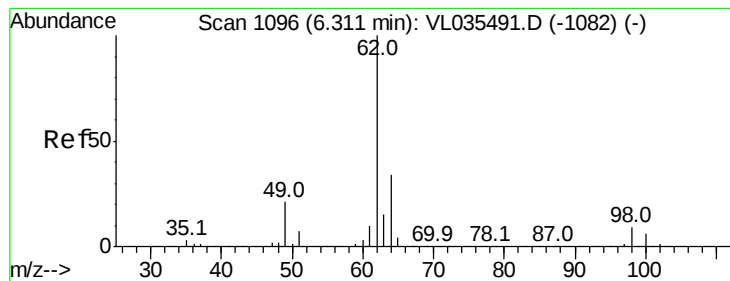


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 1.874 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

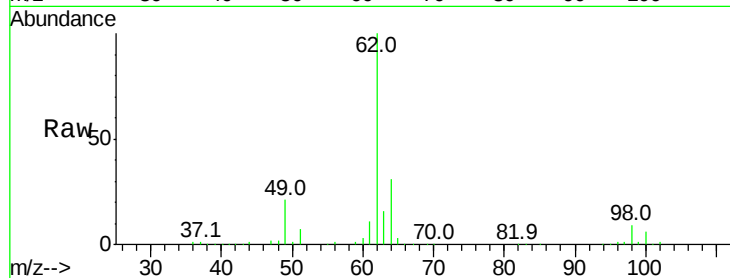
VSTDIC002

Tgt Ion: 62 Resp: 299246

Ion Ratio Lower Upper

62 100

98 9.4 7.4 11.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

200000

150000

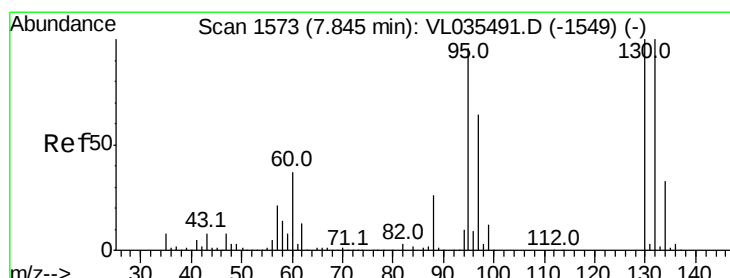
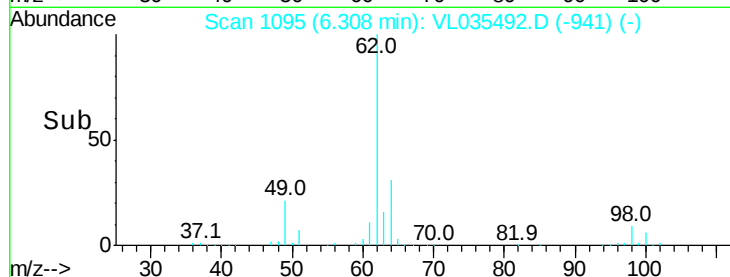
100000

50000

0

6.25 6.30 6.35 6.40

Time-->



#38

Trichloroethene

Concen: 1.830 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Tgt Ion: 130 Resp: 355630

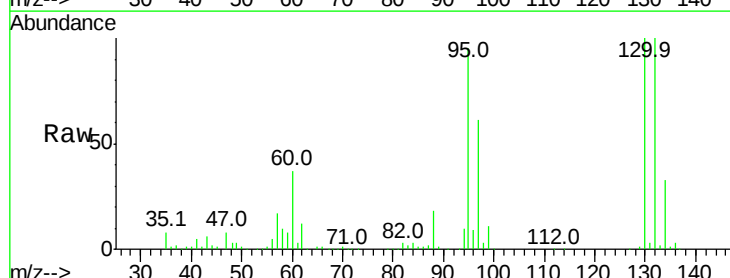
Ion Ratio Lower Upper

130 100

95 94.9 76.9 115.3

132 100.2 80.2 120.4

97 61.3 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

250000

200000

150000

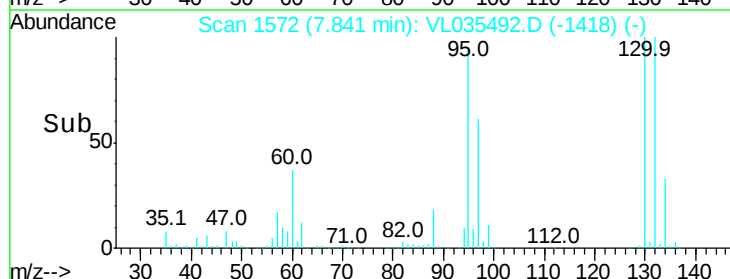
100000

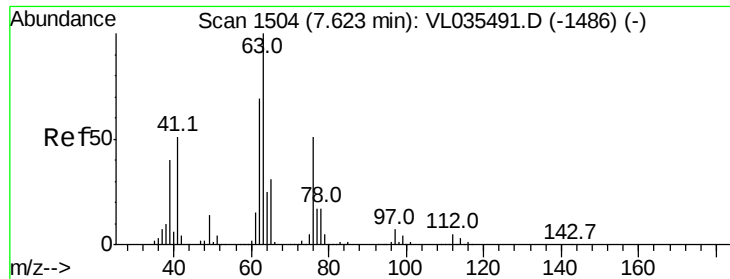
50000

0

7.75 7.80 7.85 7.90

Time-->





#39

1,2-Dichloropropane

Concen: 1.887 ppbv

RT: 7.62 min Scan# 1502

Delta R.T. -0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

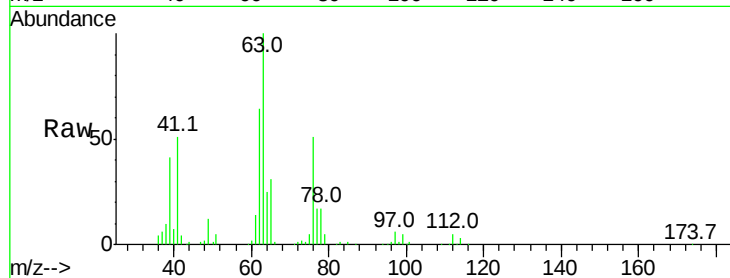
Tgt Ion: 63 Resp: 217283

Ion Ratio Lower Upper

63 100

41 50.7 40.9 61.3

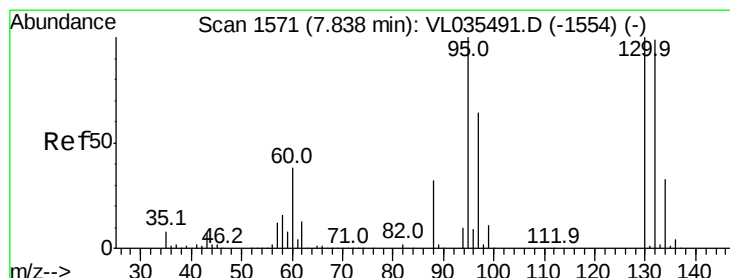
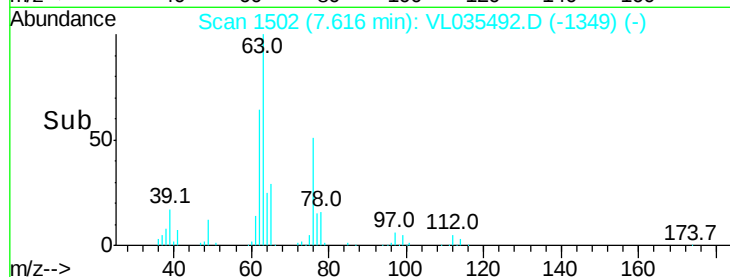
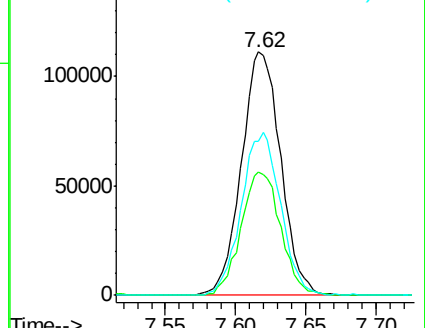
62 63.5 55.3 82.9



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 1.690 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Tgt Ion: 88 Resp: 106024

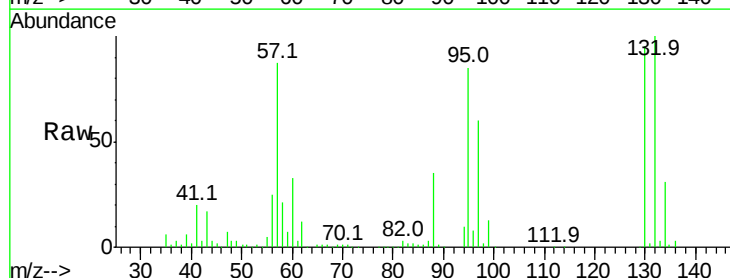
Ion Ratio Lower Upper

88 100

58 94.1 68.1 102.1

43 145.5 101.0 151.4

57 829.4 546.5 819.7#

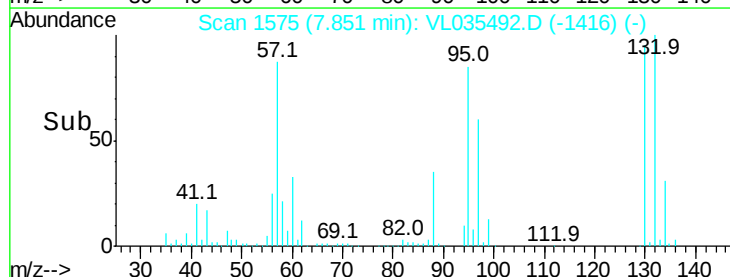
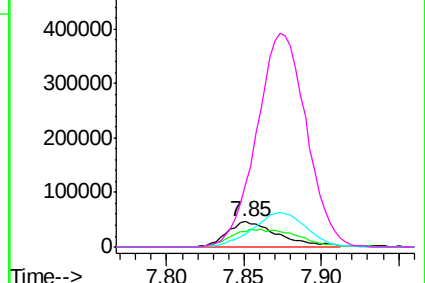


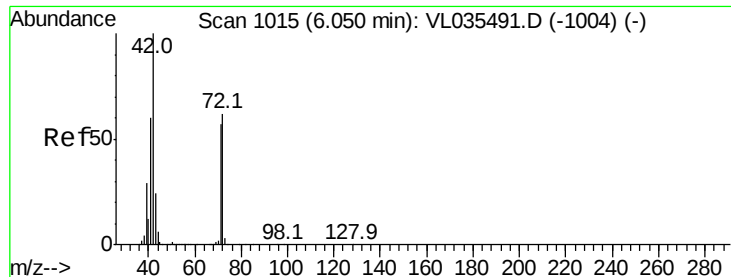
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

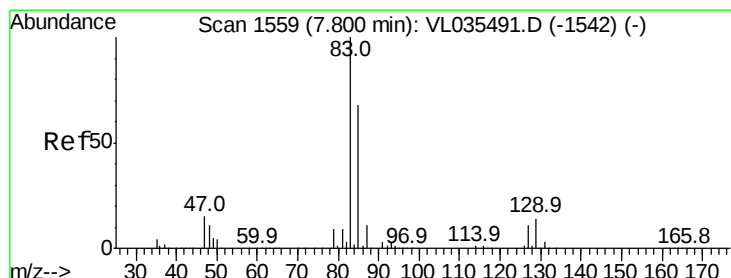
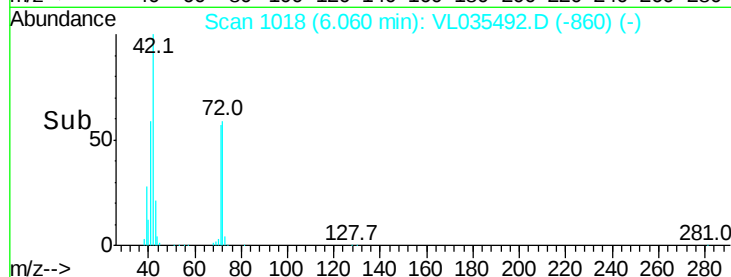
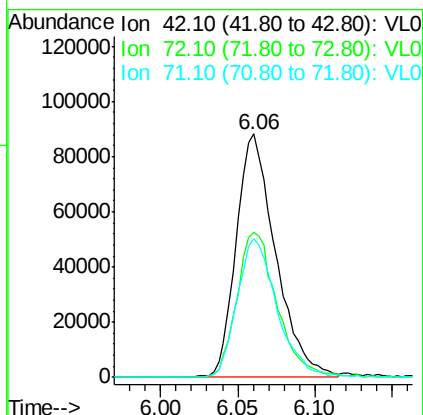
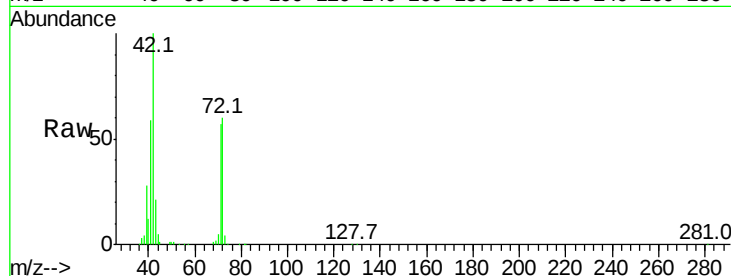




#41
Tetrahydrofuran
Concen: 1.780 ppbv
RT: 6.06 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VL035492.D
Acq: 23 Aug 2020 8:54

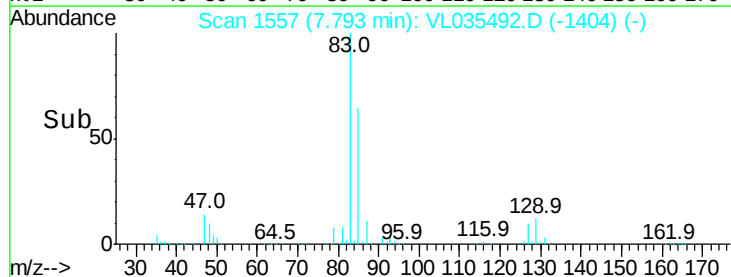
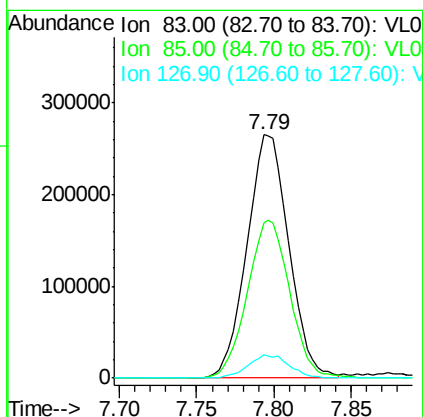
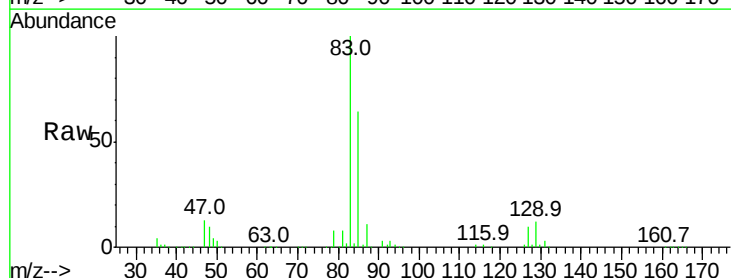
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

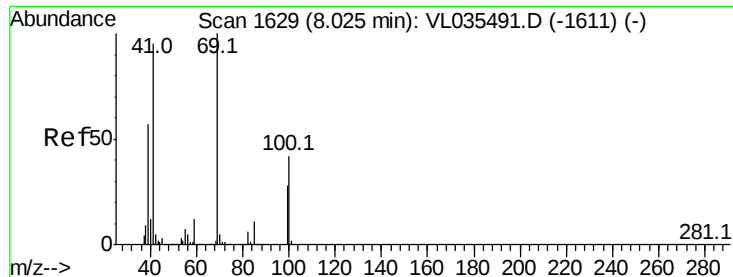
Tgt Ion: 42 Resp: 156215
Ion Ratio Lower Upper
42 100
72 60.9 49.1 73.7
71 58.1 46.7 70.1



#42
Bromodichloromethane
Concen: 1.873 ppbv
RT: 7.79 min Scan# 1557
Delta R.T. -0.01 min
Lab File: VL035492.D
Acq: 23 Aug 2020 8:54

Tgt Ion: 83 Resp: 500536
Ion Ratio Lower Upper
83 100
85 63.9 54.8 82.2
127 9.6 8.6 13.0

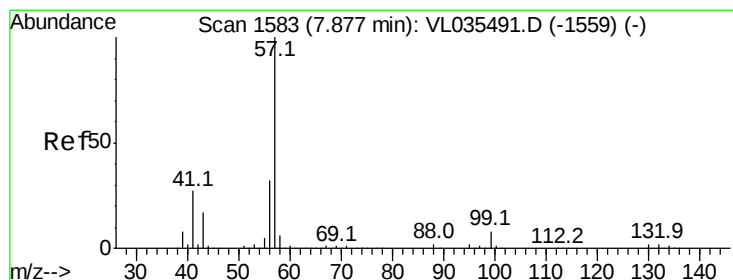
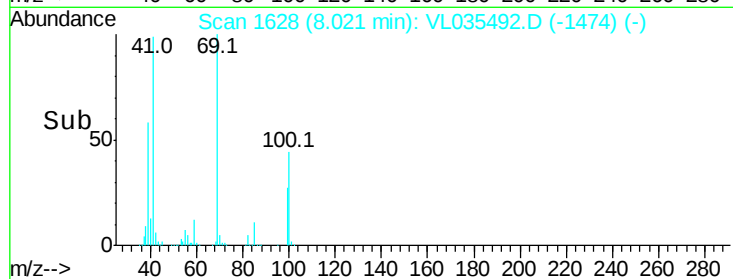
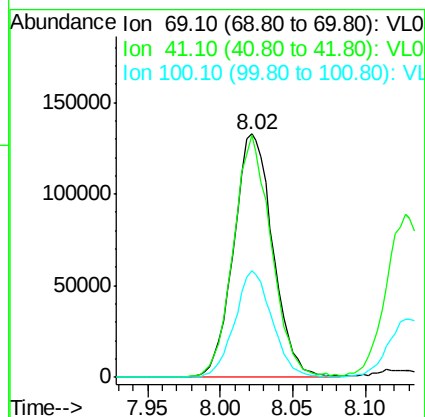
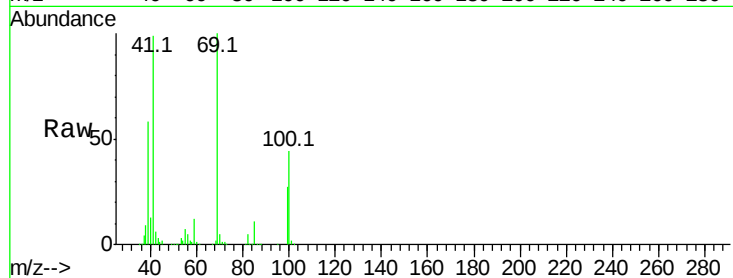




#43
Methyl Methacrylate
Concen: 1.829 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. -0.00 min
Lab File: VL035492.D
Acq: 23 Aug 2020 8:54

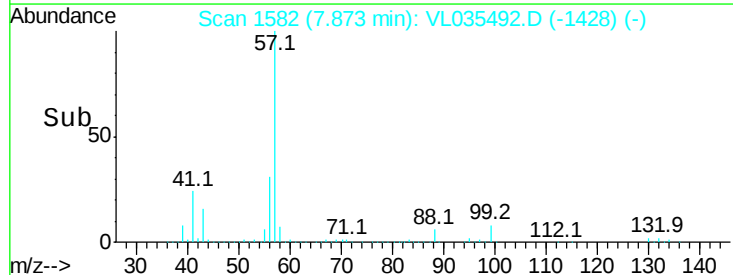
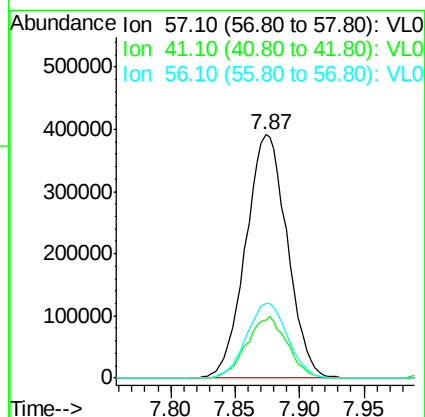
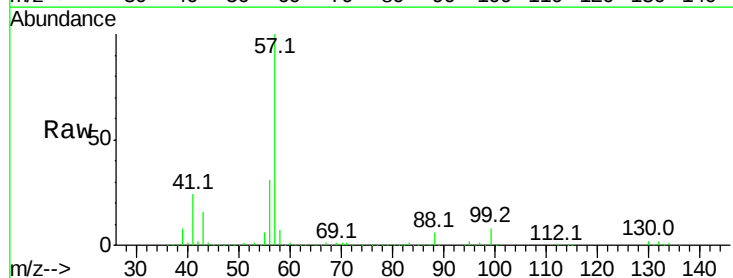
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

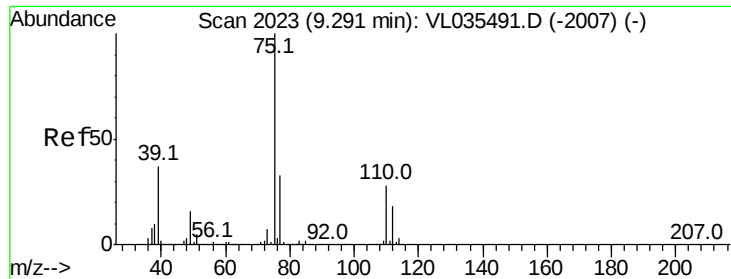
Tgt Ion: 69 Resp: 249870
Ion Ratio Lower Upper
69 100
41 96.4 76.1 114.1
100 41.9 34.2 51.4



#44
2,2,4-Trimethylpentane
Concen: 1.926 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.00 min
Lab File: VL035492.D
Acq: 23 Aug 2020 8:54

Tgt Ion: 57 Resp: 878998
Ion Ratio Lower Upper
57 100
41 24.5 20.7 31.1
56 30.5 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 1.780 ppbv

RT: 9.29 min Scan# 2022

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

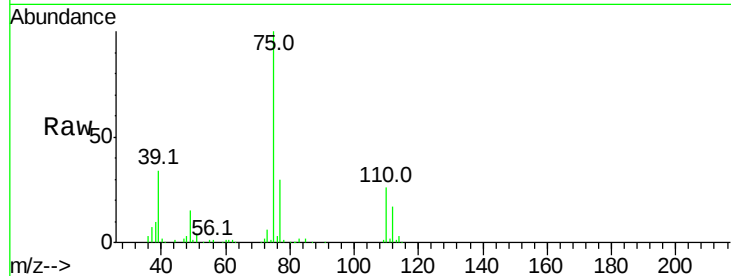
VSTDIC002

Tgt Ion: 75 Resp: 250575

Ion Ratio Lower Upper

75 100

77 30.2 26.6 39.8



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.29

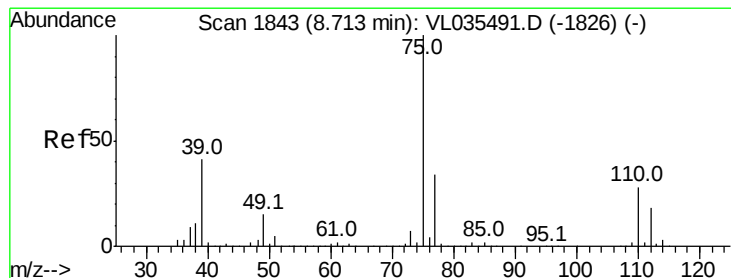
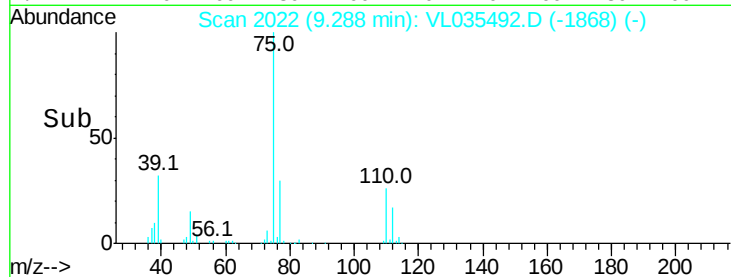
150000

100000

50000

0

Time--> 9.20 9.25 9.30 9.35



#46

cis-1,3-Dichloropropene

Concen: 1.822 ppbv

RT: 8.71 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

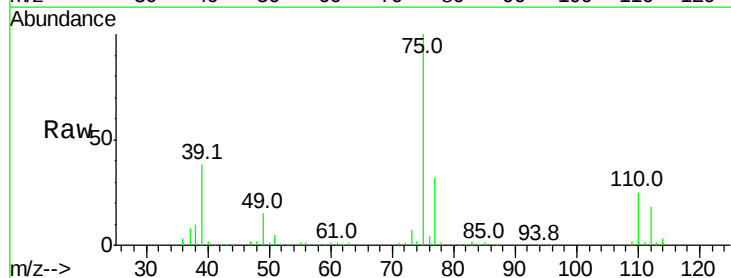
Tgt Ion: 75 Resp: 319526

Ion Ratio Lower Upper

75 100

39 38.0 33.2 49.8

77 32.4 27.1 40.7



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.71

200000

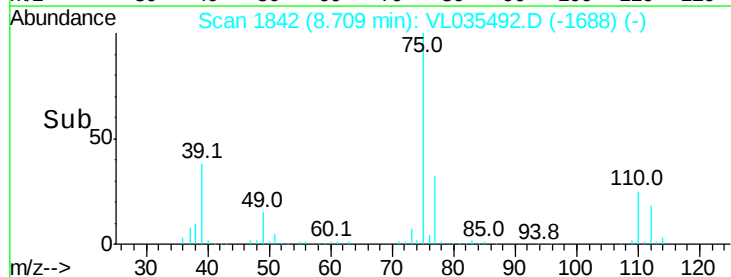
150000

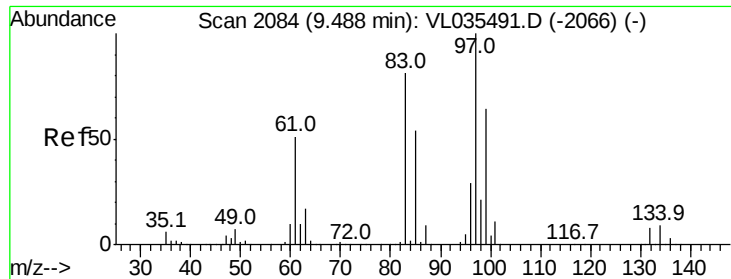
100000

50000

0

Time--> 8.65 8.70 8.75 8.80

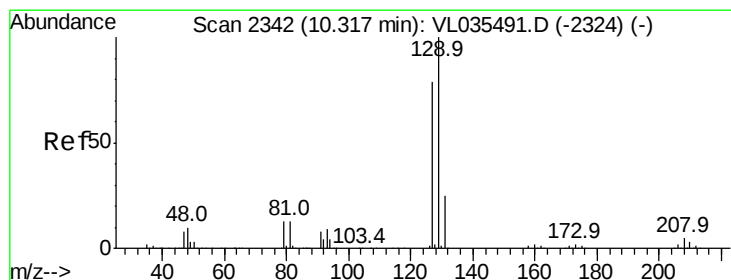
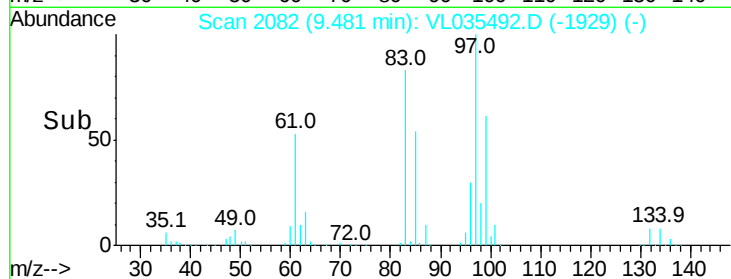
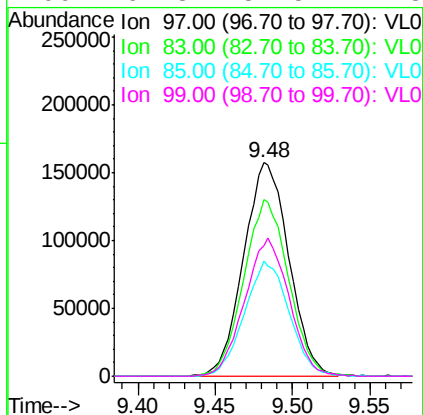
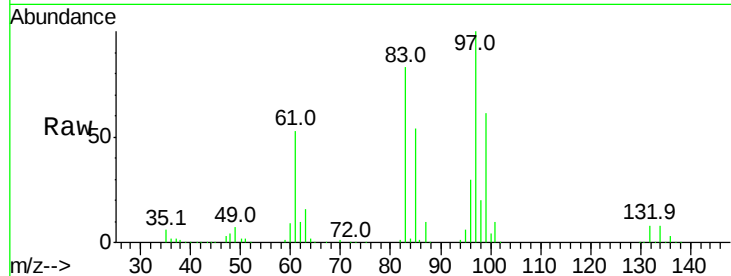




#47
 1,1,2-Trichloroethane
 Concen: 1.866 ppbv
 RT: 9.48 min Scan# 2082
 Delta R.T. -0.01 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

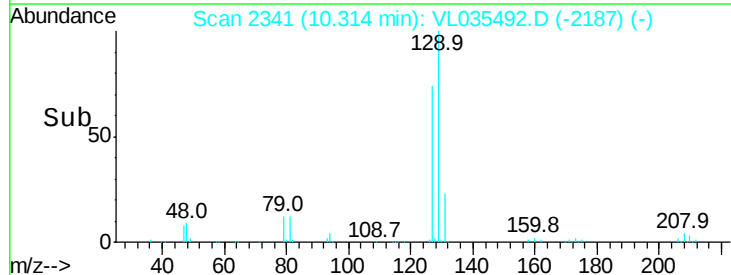
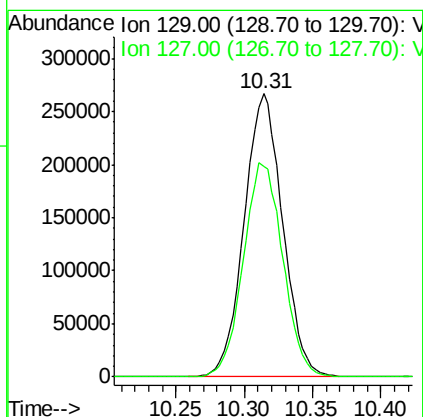
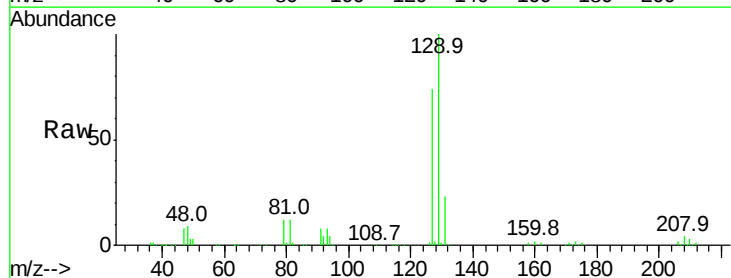
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

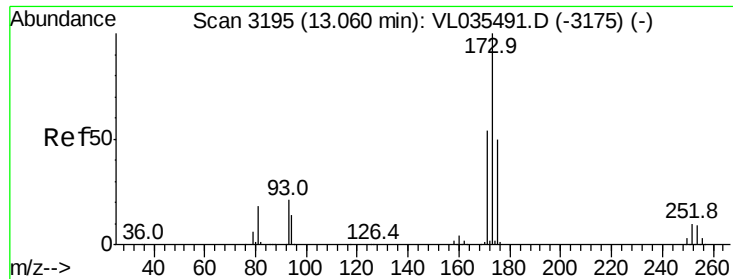
Tgt Ion:	97	Resp:	320893
Ion	Ratio	Lower	Upper
97	100		
83	82.5	64.9	97.3
85	54.0	43.1	64.7
99	61.3	51.5	77.3



#48
 Dibromochloromethane
 Concen: 1.814 ppbv
 RT: 10.31 min Scan# 2341
 Delta R.T. -0.00 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

Tgt Ion:	129	Resp:	523282
Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.1	117.5





#49

Bromoform

Concen: 1.729 ppbv

RT: 13.05 min Scan# 3193

Delta R.T. -0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

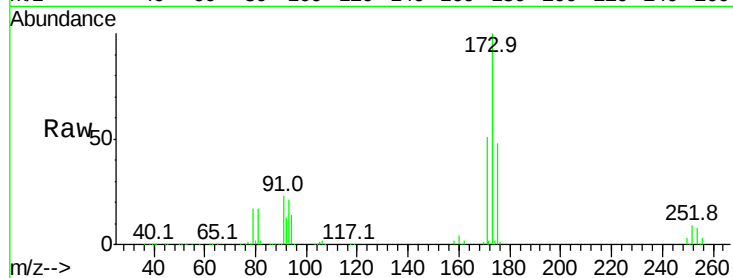
Tgt Ion: 173 Resp: 480537

Ion Ratio Lower Upper

173 100

175 49.5 40.2 60.4

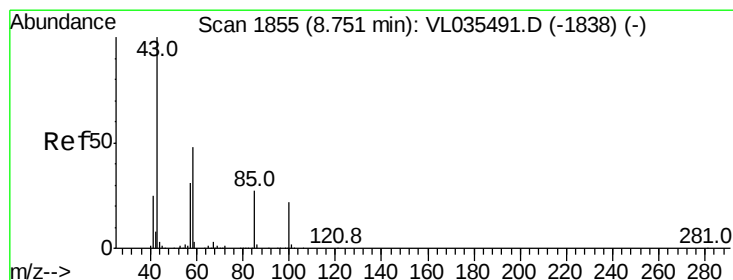
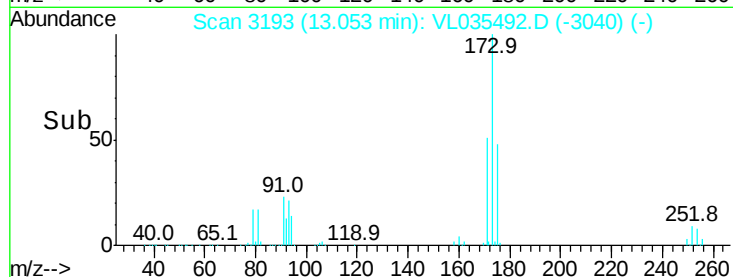
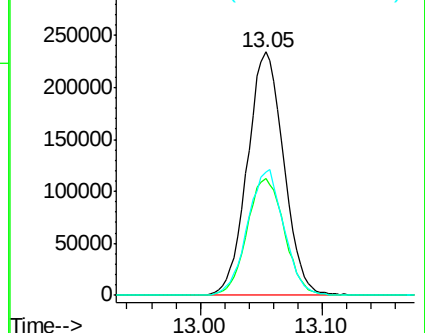
171 51.7 42.7 64.1



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: 1.852 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. 0.00 min

Lab File: VL035492.D

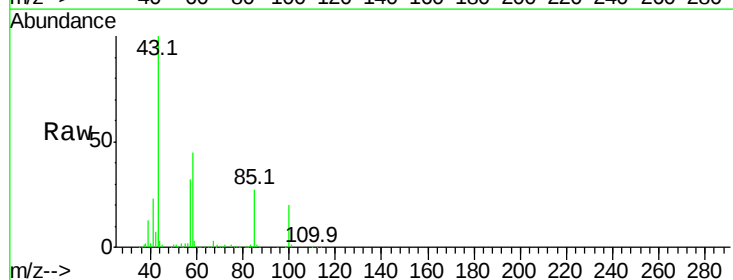
Acq: 23 Aug 2020 8:54

Tgt Ion: 43 Resp: 422496

Ion Ratio Lower Upper

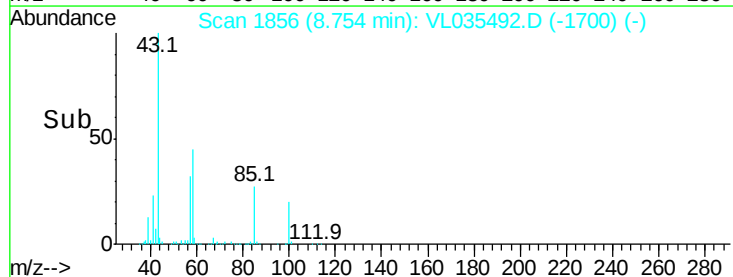
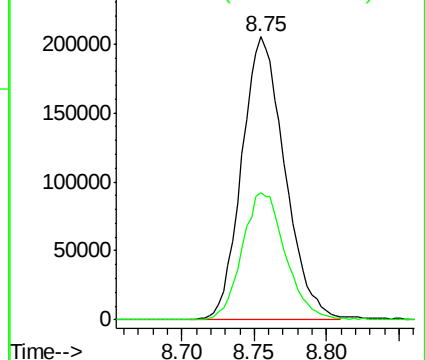
43 100

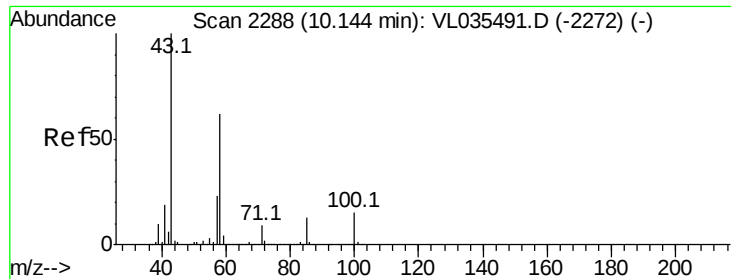
58 45.7 37.4 56.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 1.781 ppbv

RT: 10.15 min Scan# 2290

Delta R.T. 0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

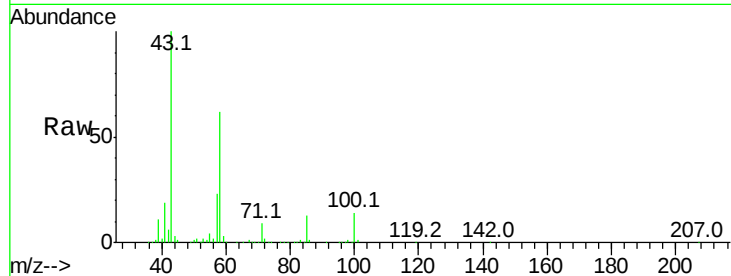
Tgt Ion: 43 Resp: 342492

Ion Ratio Lower Upper

43 100

58 62.7 50.3 75.5

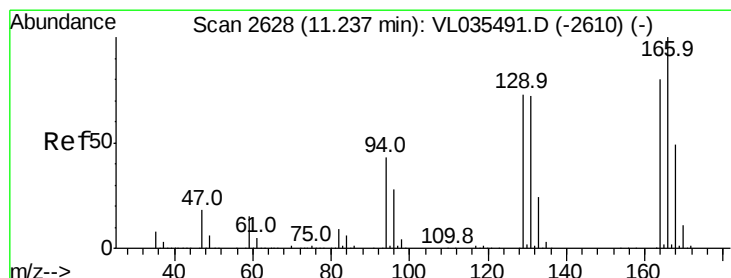
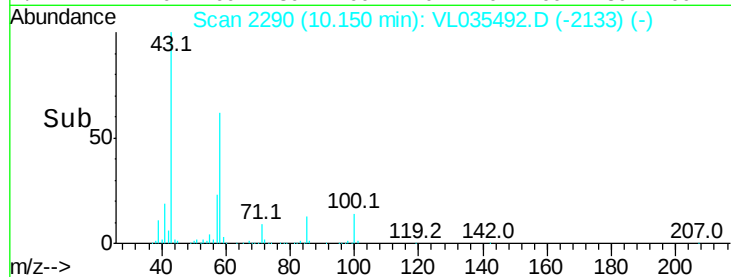
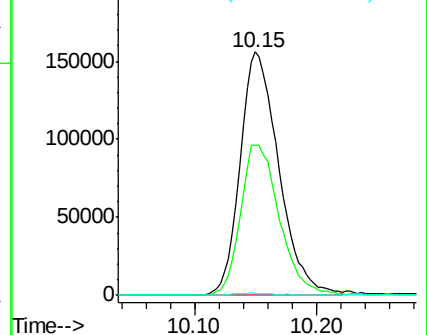
98 1.0 0.4 0.6#



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: 1.738 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Tgt Ion: 164 Resp: 370486

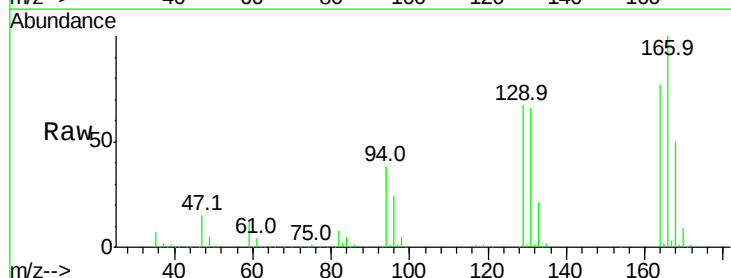
Ion Ratio Lower Upper

164 100

166 129.3 99.6 149.4

129 86.5 72.8 109.2

131 85.2 71.3 106.9

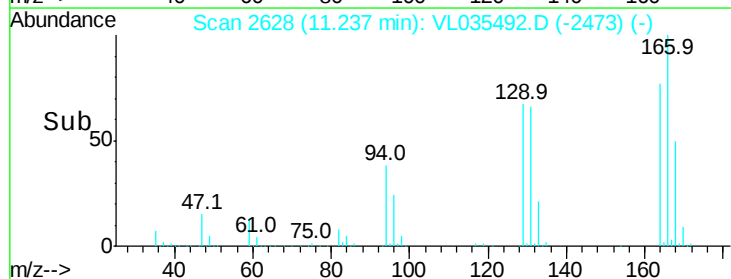
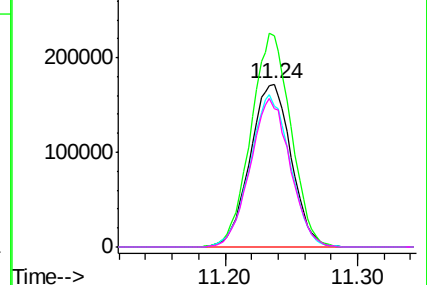


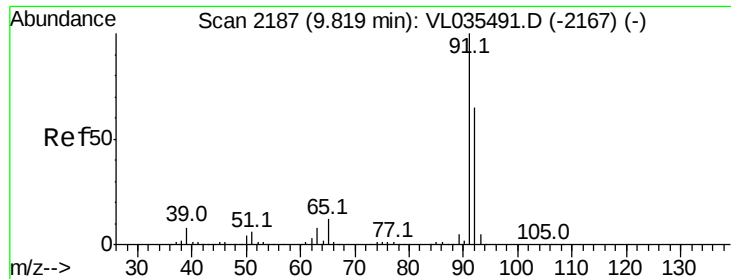
Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.883 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

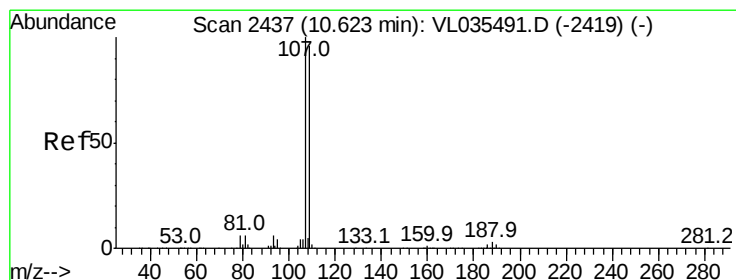
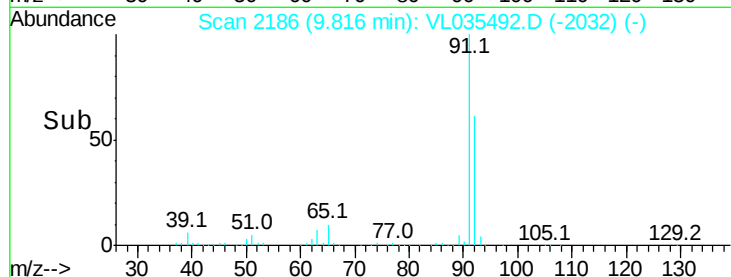
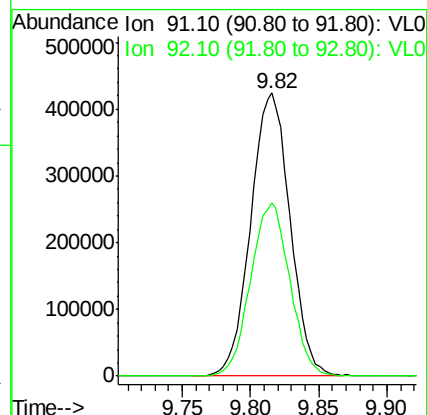
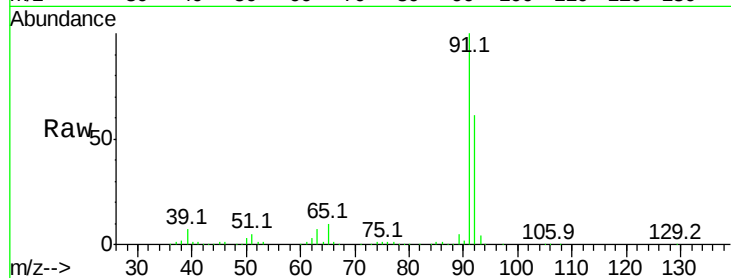
VSTDIC002

Tgt Ion: 91 Resp: 847634

Ion Ratio Lower Upper

91 100

92 60.9 49.9 74.9



#54

1,2-Dibromoethane

Concen: 1.849 ppbv

RT: 10.62 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VL035492.D

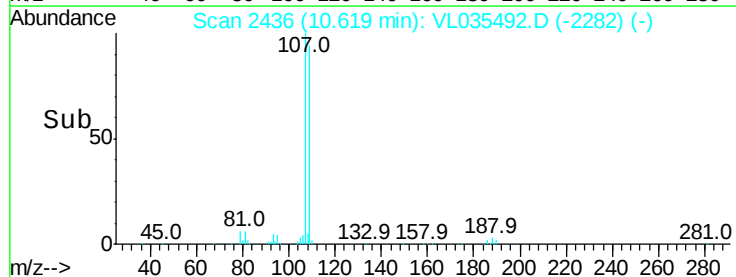
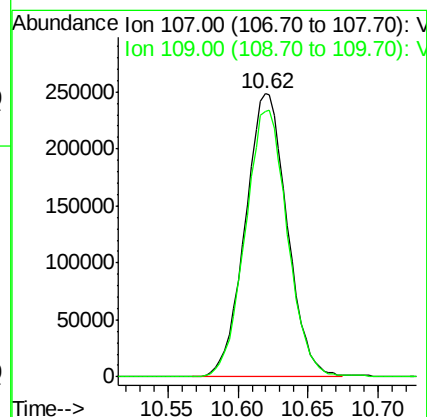
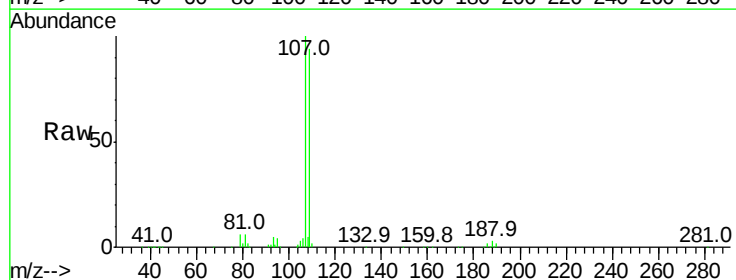
Acq: 23 Aug 2020 8:54

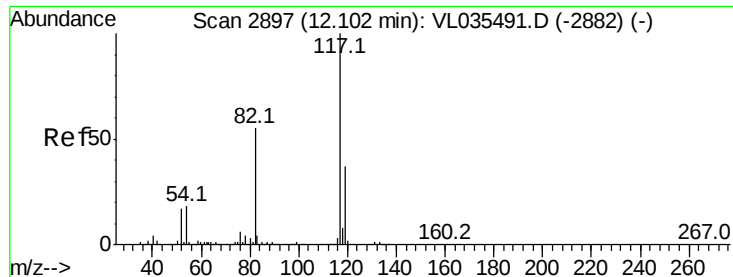
Tgt Ion: 107 Resp: 516540

Ion Ratio Lower Upper

107 100

109 93.9 76.5 114.7

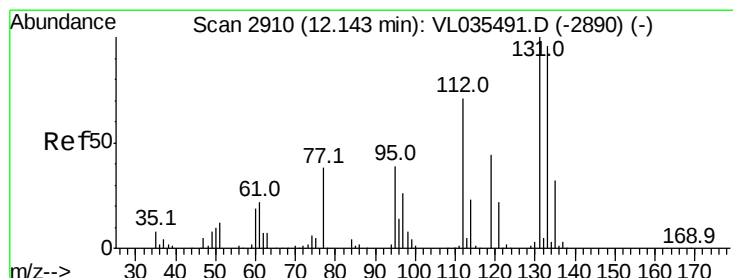
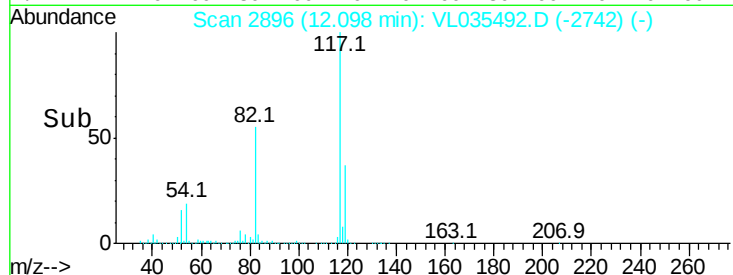
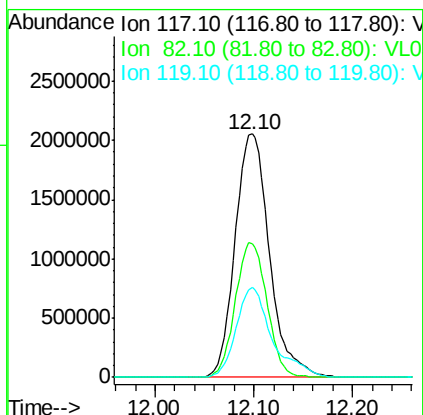
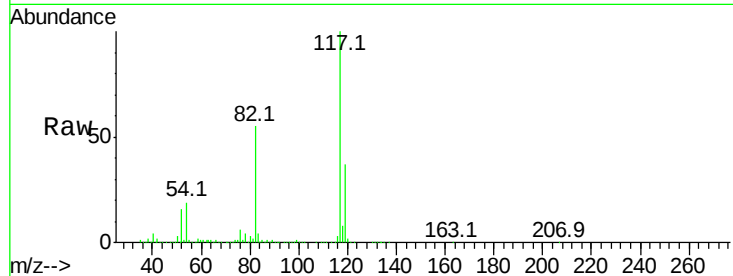




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL035492.D
Acq: 23 Aug 2020 8:54

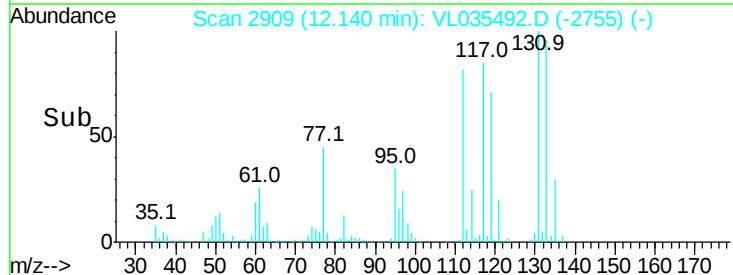
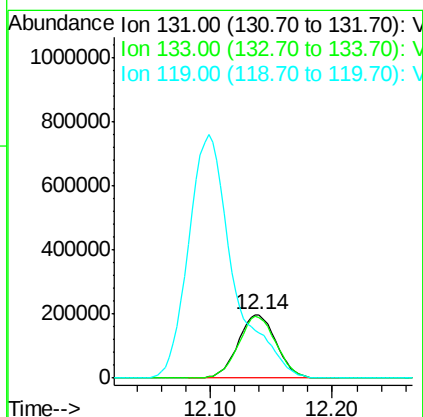
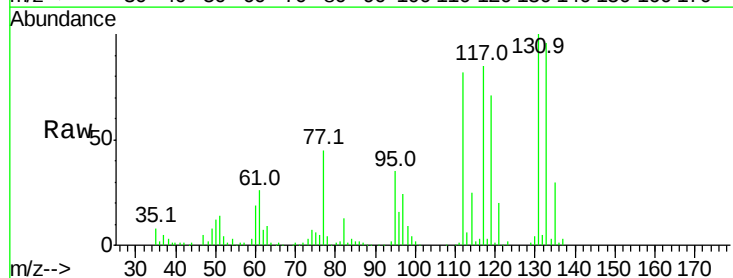
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

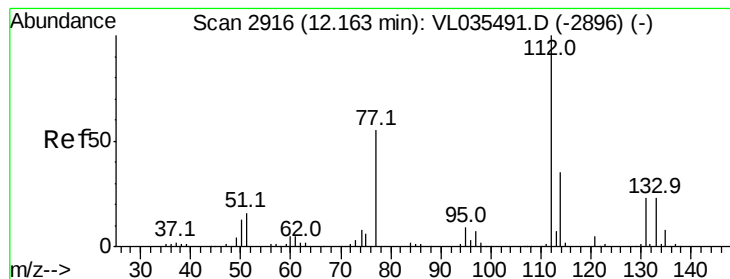
Tgt Ion:117 Resp: 4982528
Ion Ratio Lower Upper
117 100
82 51.2 43.9 65.9
119 38.5 30.4 45.6



#56
1,1,1,2-Tetrachloroethane
Concen: 1.819 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL035492.D
Acq: 23 Aug 2020 8:54

Tgt Ion:131 Resp: 430015
Ion Ratio Lower Upper
131 100
133 95.8 76.9 115.3
119 445.7 45.3 67.9#





#57

Chlorobenzene

Concen: 1.853 ppbv

RT: 12.16 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

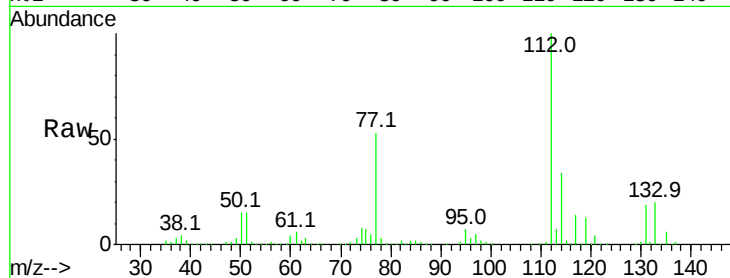
Tgt Ion: 112 Resp: 770782

Ion Ratio Lower Upper

112 100

77 52.9 45.2 67.8

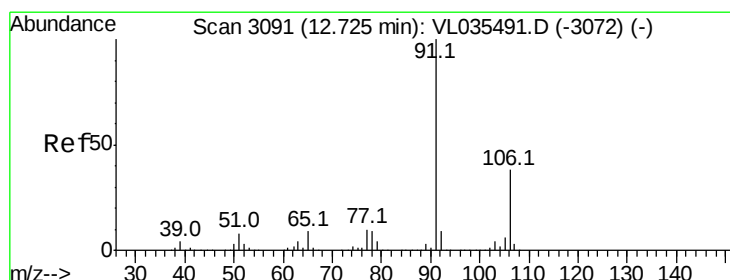
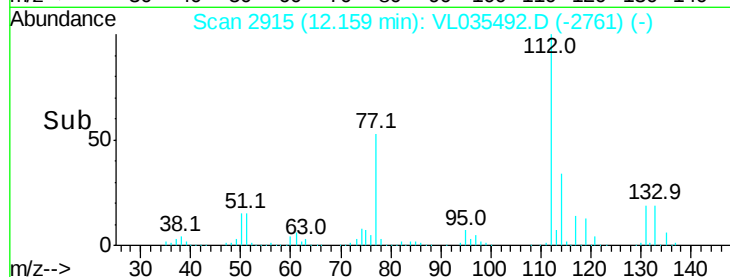
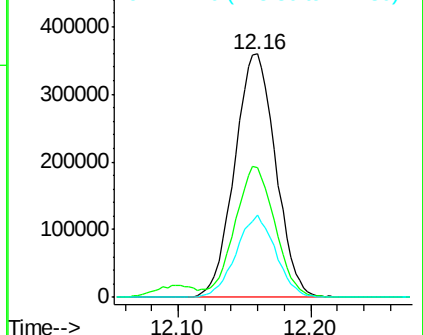
114 33.5 31.6 38.6



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: 1.888 ppbv

RT: 12.73 min Scan# 3091

Delta R.T. -0.00 min

Lab File: VL035492.D

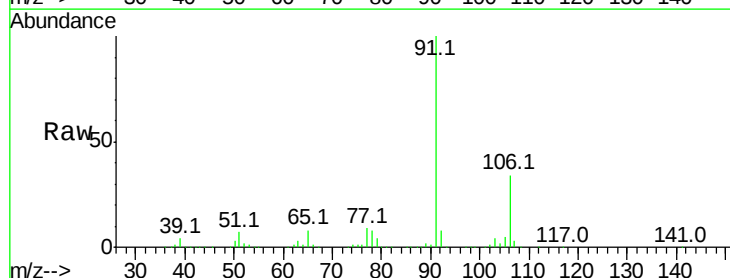
Acq: 23 Aug 2020 8:54

Tgt Ion: 91 Resp: 1135413

Ion Ratio Lower Upper

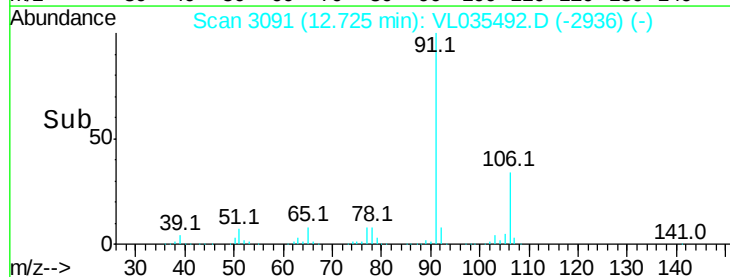
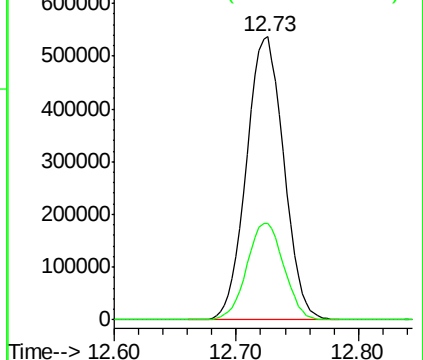
91 100

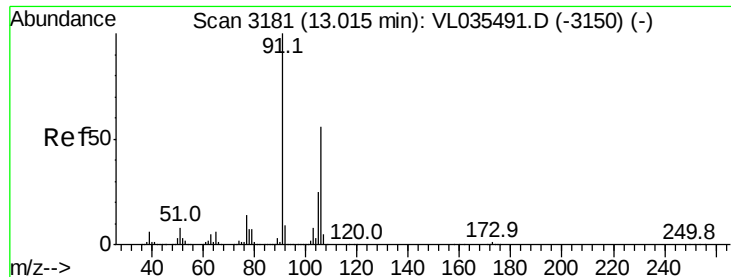
106 34.0 30.2 45.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

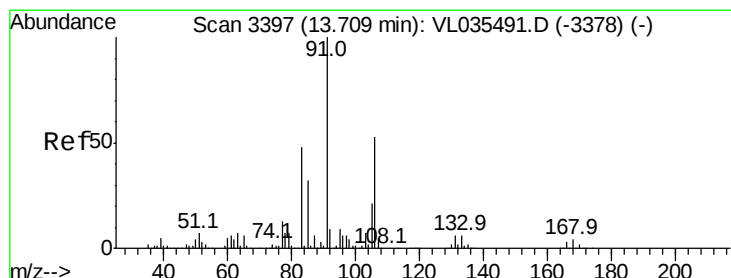
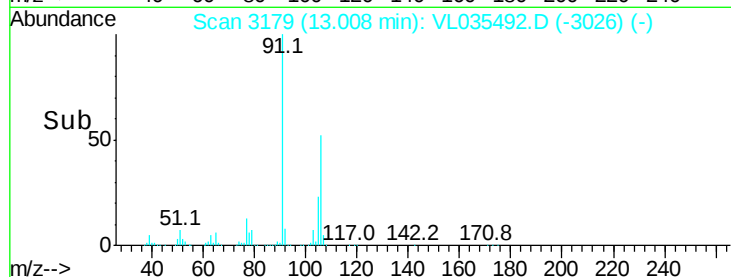
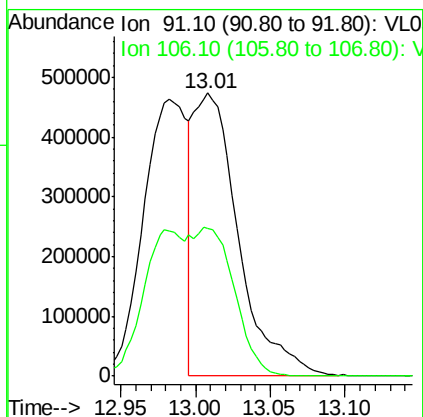
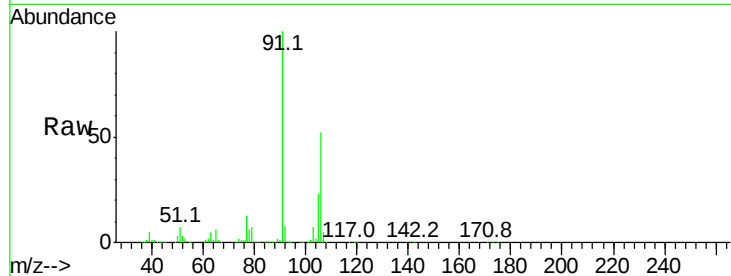




#59
m/p-Xylene
Concen: 1.928 ppbv
RT: 13.01 min Scan# 3179
Delta R.T. -0.01 min
Lab File: VL035492.D
Acq: 23 Aug 2020 8:54

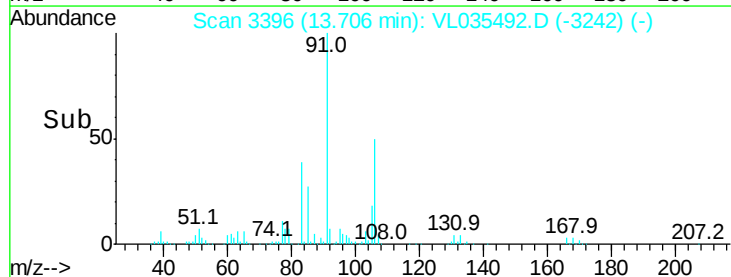
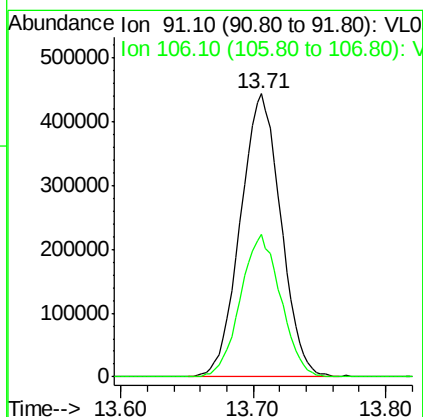
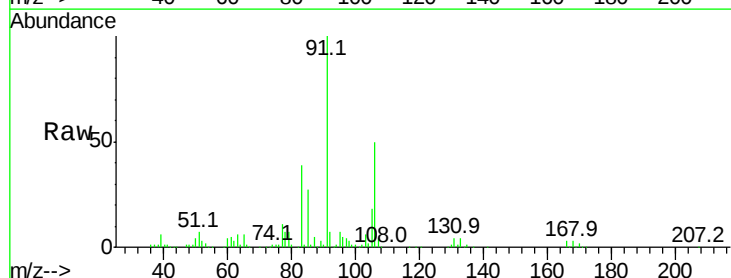
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

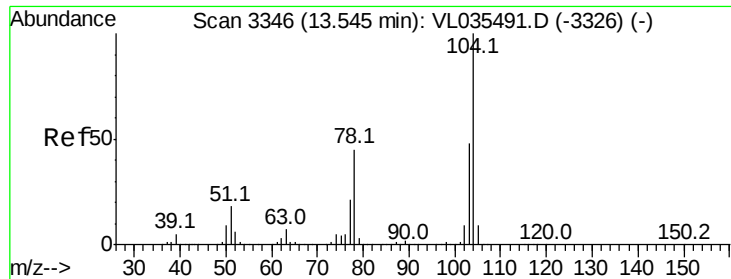
Tgt Ion: 91 Resp: 980219
Ion Ratio Lower Upper
91 100
106 99.3 42.6 63.8#



#60
o-Xylene
Concen: 1.902 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL035492.D
Acq: 23 Aug 2020 8:54

Tgt Ion: 91 Resp: 939974
Ion Ratio Lower Upper
91 100
106 50.2 25.9 77.7





#61

Styrene

Concen: 1.817 ppbv

RT: 13.54 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

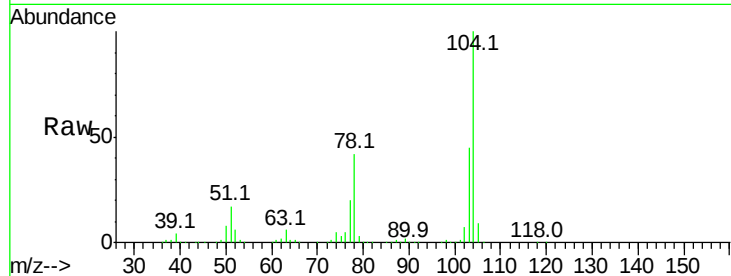
Tgt Ion:104 Resp: 725683

Ion Ratio Lower Upper

104 100

78 41.7 34.7 52.1

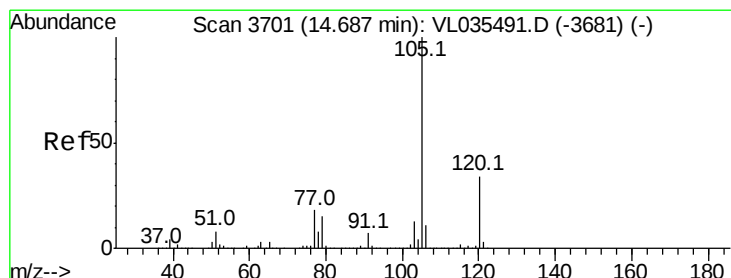
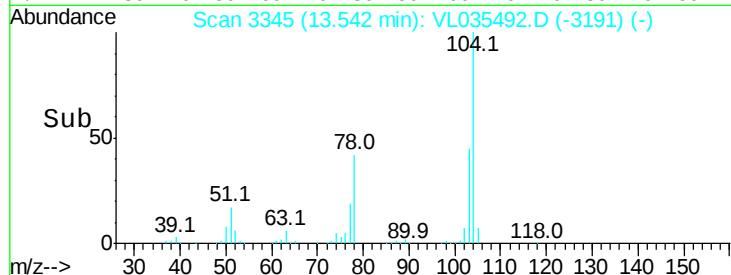
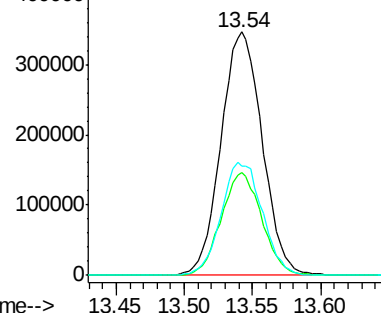
103 46.6 38.2 57.2



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: 1.921 ppbv

RT: 14.68 min Scan# 3700

Delta R.T. -0.00 min

Lab File: VL035492.D

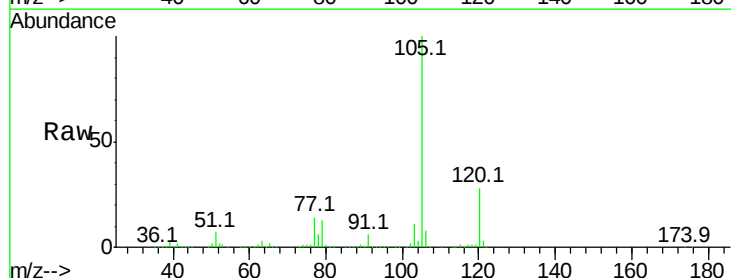
Acq: 23 Aug 2020 8:54

Tgt Ion:105 Resp: 1556113

Ion Ratio Lower Upper

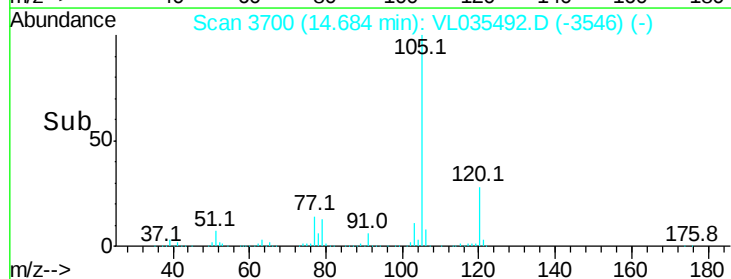
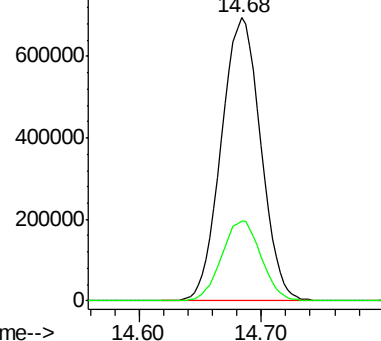
105 100

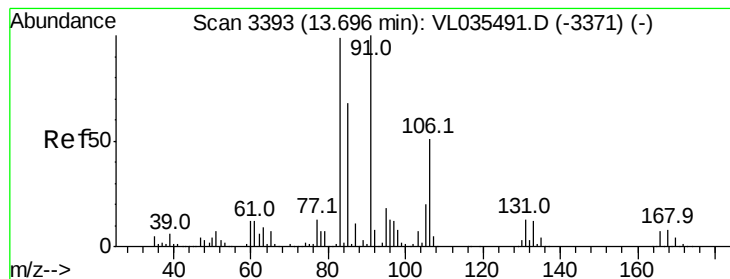
120 28.1 25.0 37.4



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: 1.890 ppbv

RT: 13.69 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

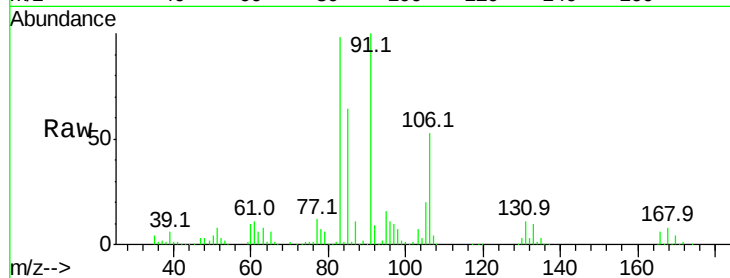
Tgt Ion: 83 Resp: 670766

Ion Ratio Lower Upper

83 100

131 11.3 6.2 18.4

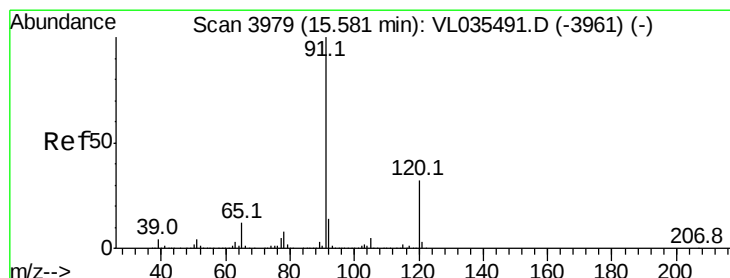
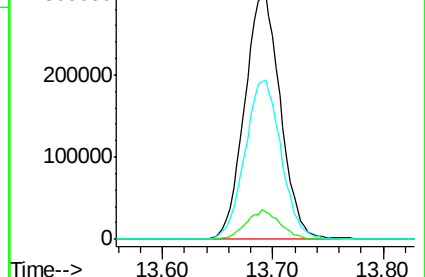
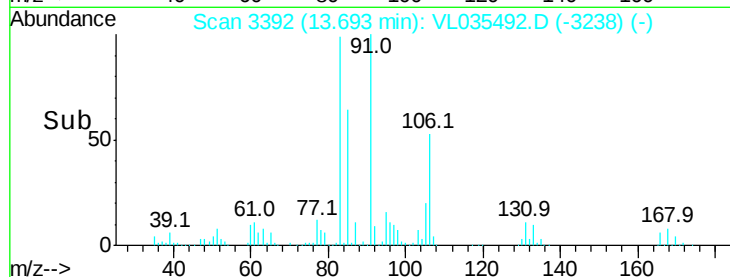
85 65.7 33.4 100.2



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 1.822 ppbv

RT: 15.58 min Scan# 3979

Delta R.T. -0.00 min

Lab File: VL035492.D

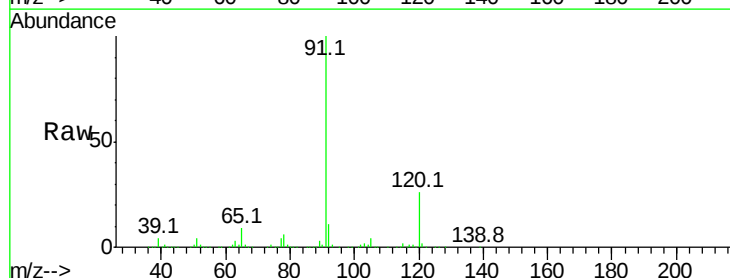
Acq: 23 Aug 2020 8:54

Tgt Ion: 120 Resp: 454832

Ion Ratio Lower Upper

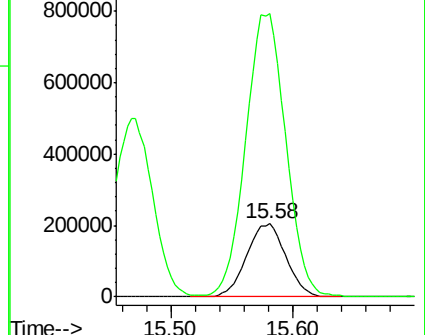
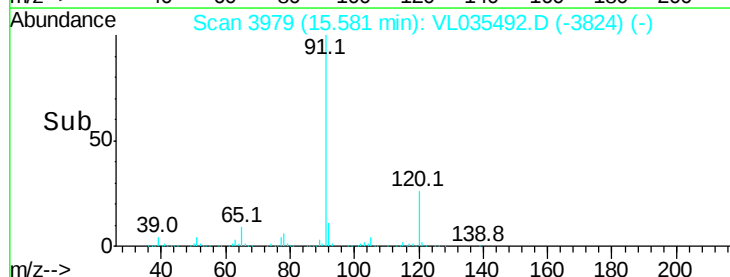
120 100

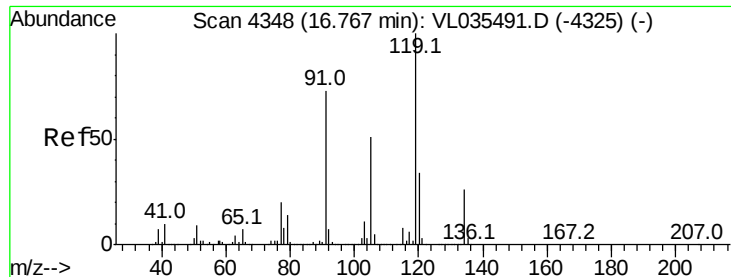
91 396.4 280.3 420.5



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

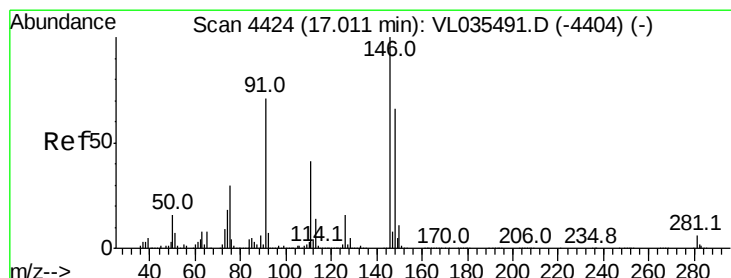
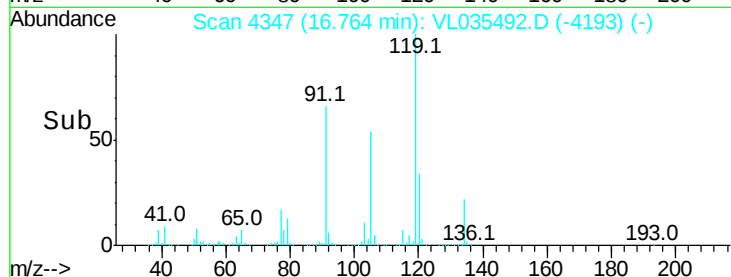
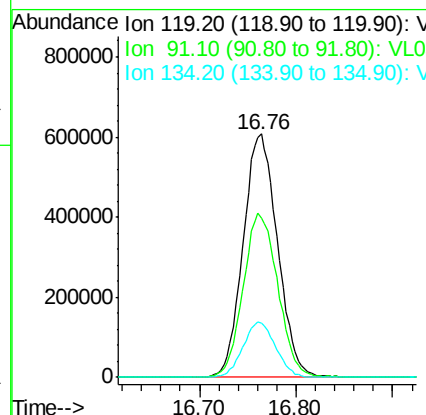
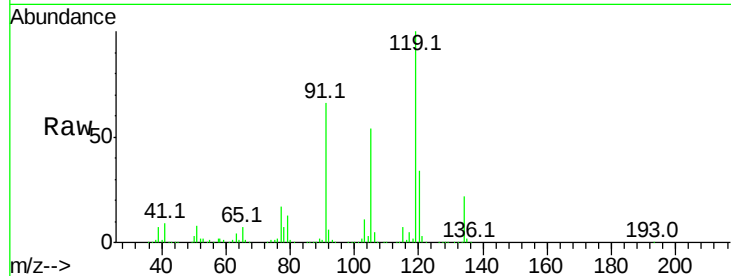




#65
 tert-Butylbenzene
 Concen: 1.908 ppbv
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.00 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

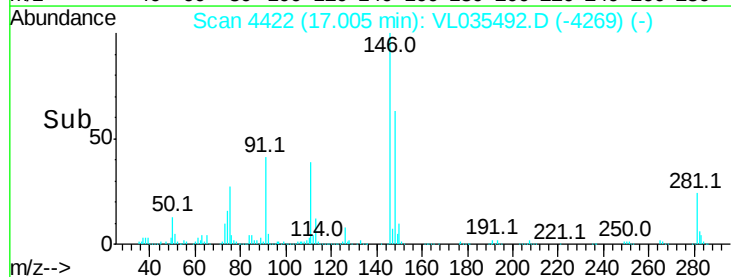
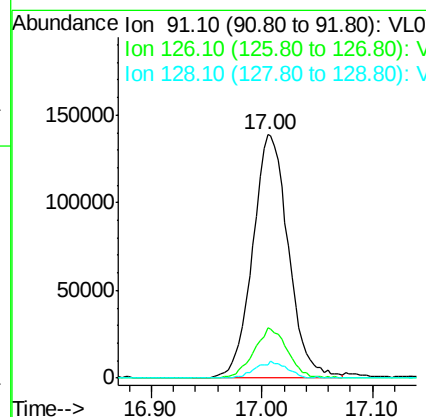
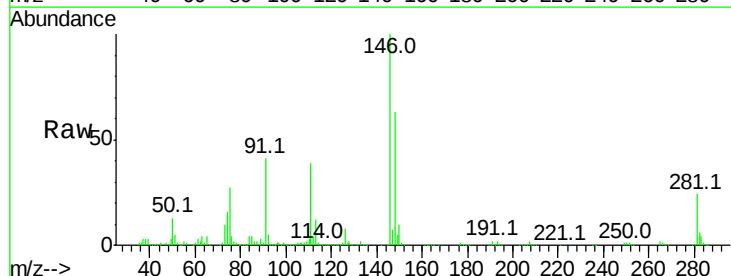
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

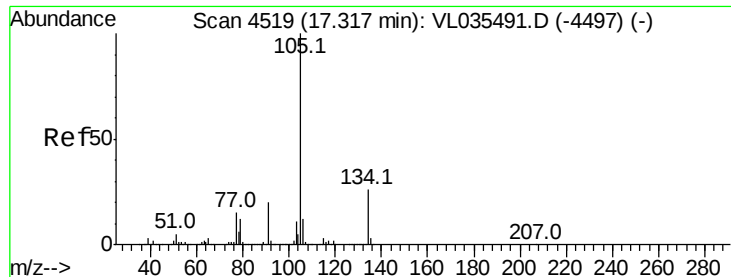
Tgt Ion: 119 Resp: 1501475
 Ion Ratio Lower Upper
 119 100
 91 68.1 57.8 86.8
 134 21.6 18.8 28.2



#66
 Benzyl Chloride
 Concen: 1.644 ppbv
 RT: 17.00 min Scan# 4422
 Delta R.T. -0.01 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

Tgt Ion: 91 Resp: 311196
 Ion Ratio Lower Upper
 91 100
 126 19.6 17.3 25.9
 128 6.3 5.6 8.4

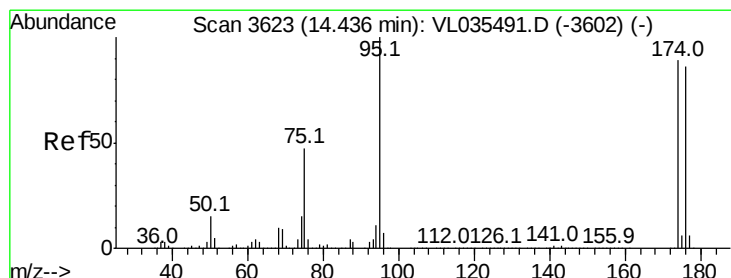
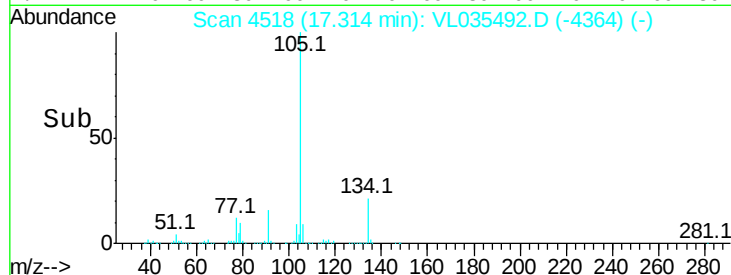
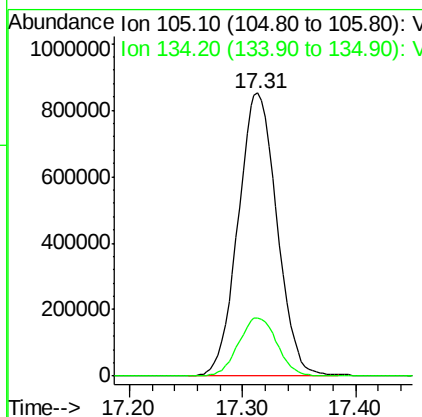
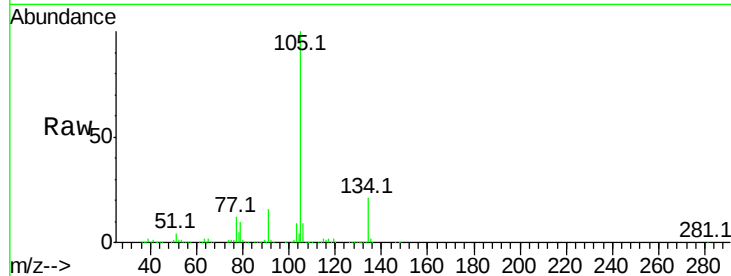




#67
 sec-Butylbenzene
 Concen: 1.958 ppbv
 RT: 17.31 min Scan# 4518
 Delta R.T. -0.00 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

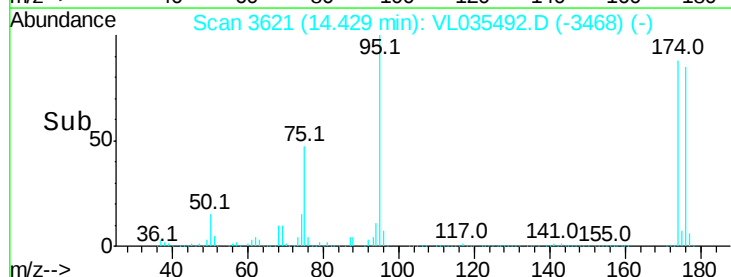
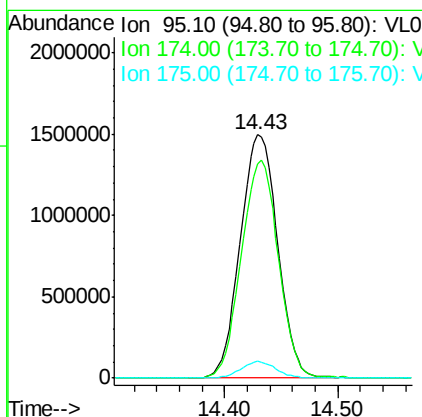
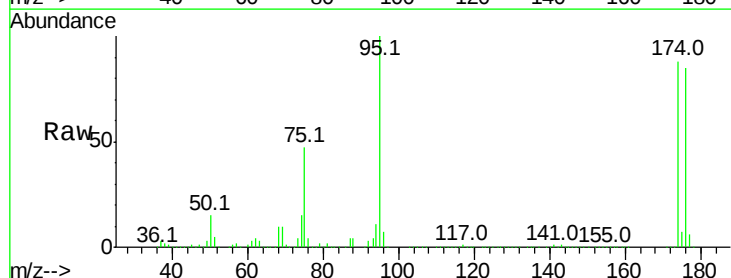
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

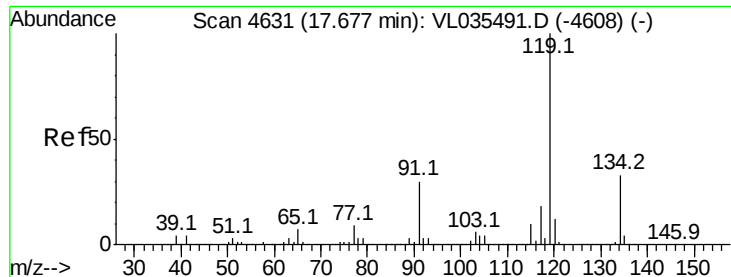
Tgt Ion: 105 Resp: 2028471
 Ion Ratio Lower Upper
 105 100
 134 20.7 19.1 28.7



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.880 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

Tgt Ion: 95 Resp: 3446478
 Ion Ratio Lower Upper
 95 100
 174 89.2 70.9 106.3
 175 6.5 5.1 7.7

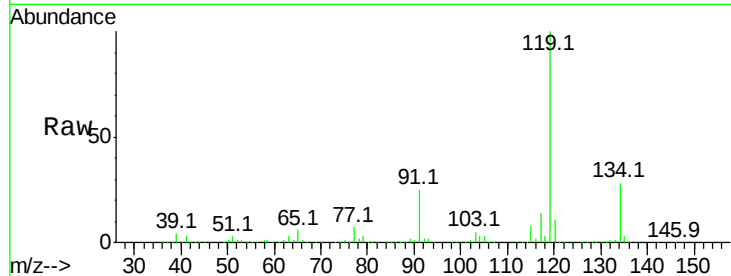




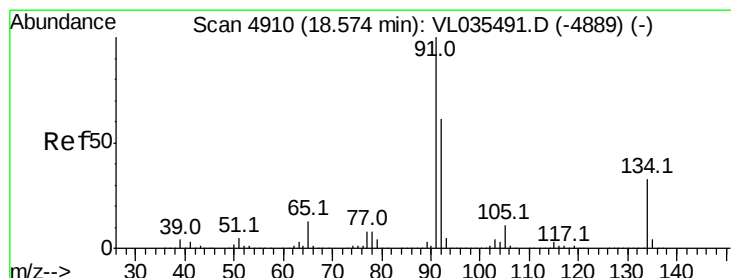
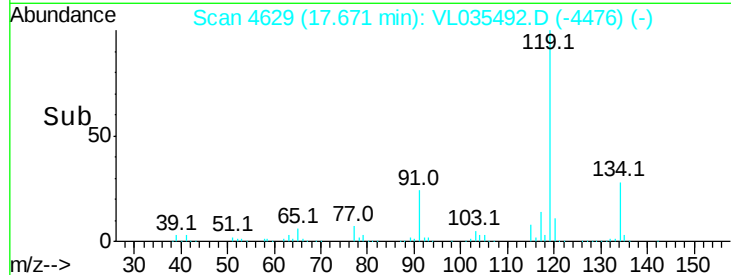
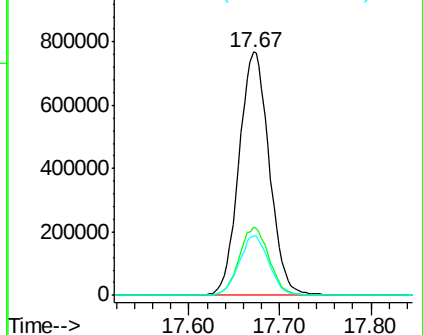
#69
 p-Isopropyltoluene
 Concen: 1.931 ppbv
 RT: 17.67 min Scan# 4629
 Delta R.T. -0.01 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 119 Resp: 1774910
 Ion Ratio Lower Upper
 119 100
 134 27.7 24.9 37.3
 91 24.2 22.0 33.0

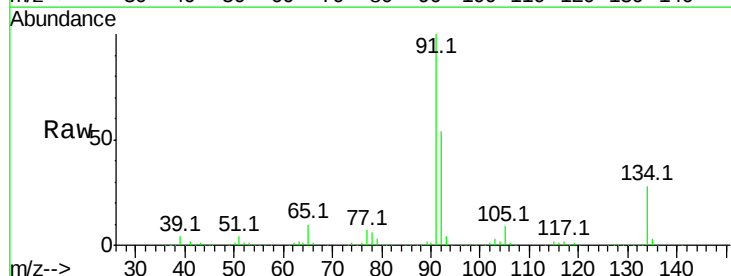


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

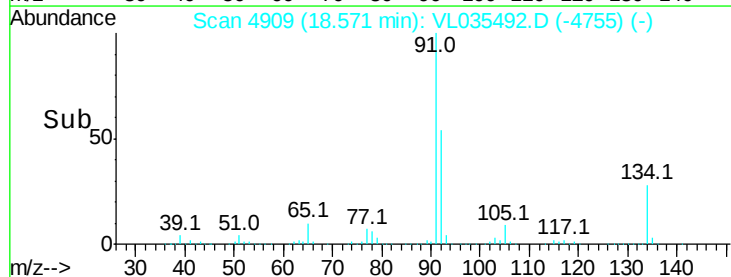
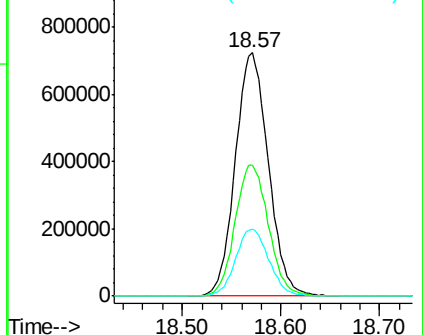


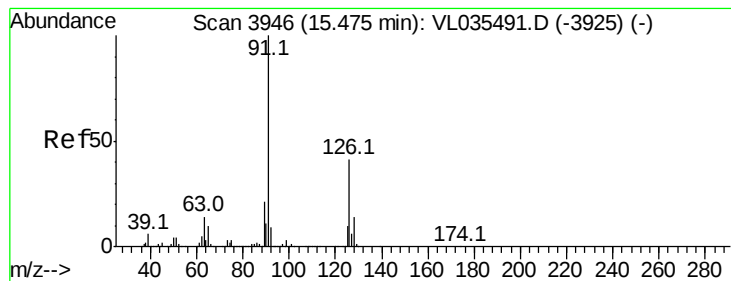
#70
 n-Butylbenzene
 Concen: 1.929 ppbv
 RT: 18.57 min Scan# 4909
 Delta R.T. -0.00 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

Tgt Ion: 91 Resp: 1674939
 Ion Ratio Lower Upper
 91 100
 92 54.6 47.0 70.6
 134 27.8 24.9 37.3



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





#71

2-Chlorotoluene

Concen: 1.885 ppbv

RT: 15.47 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

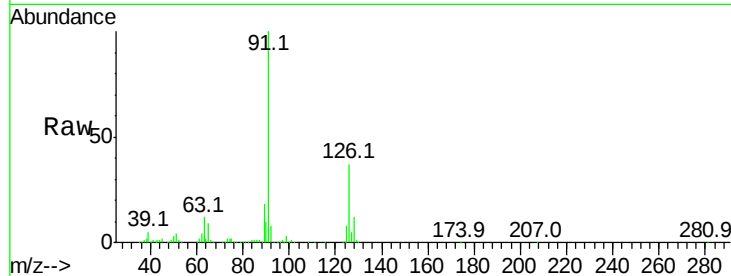
VSTDIC002

Tgt Ion: 91 Resp: 1107423

Ion Ratio Lower Upper

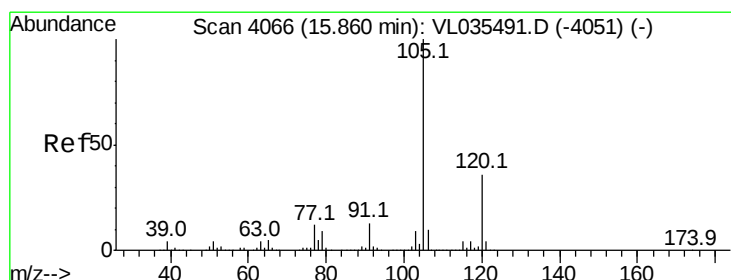
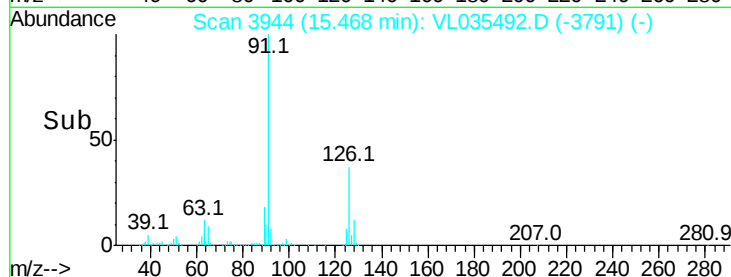
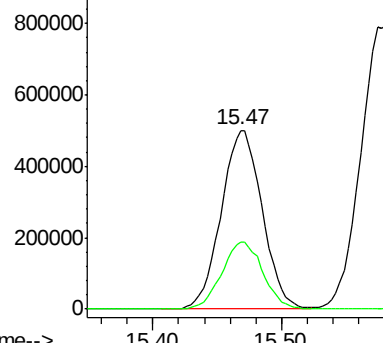
91 100

126 37.5 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: 1.899 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. -0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Tgt Ion: 105 Resp: 1231239

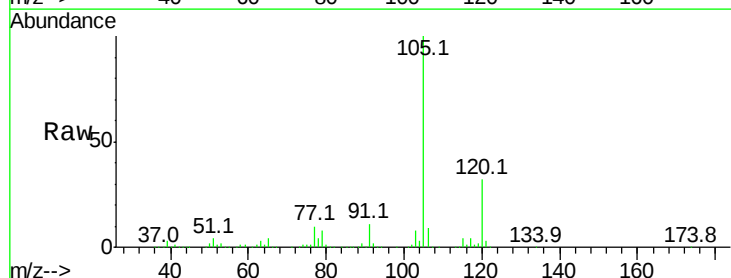
Ion Ratio Lower Upper

105 100

120 32.0 27.4 41.0

91 11.0 9.5 14.3

77 10.8 9.4 14.2

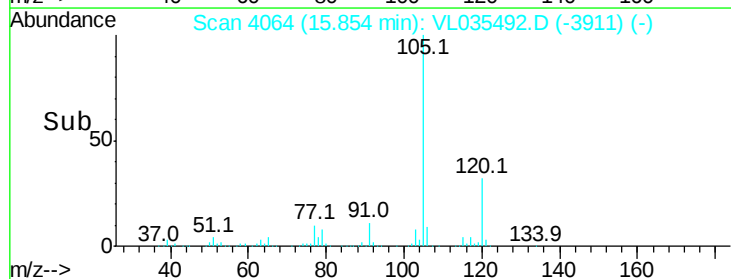
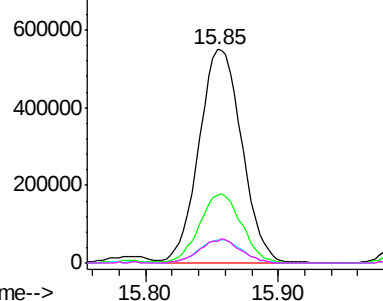


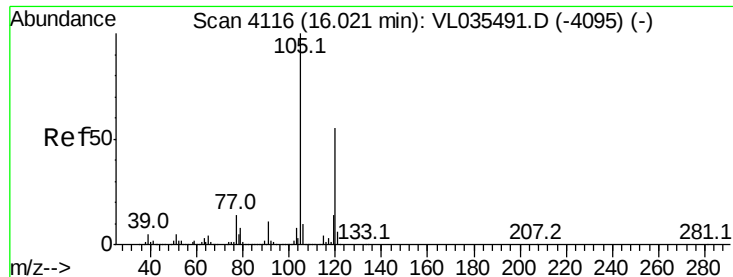
Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.878 ppbv

RT: 16.01 min Scan# 4113

Delta R.T. -0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

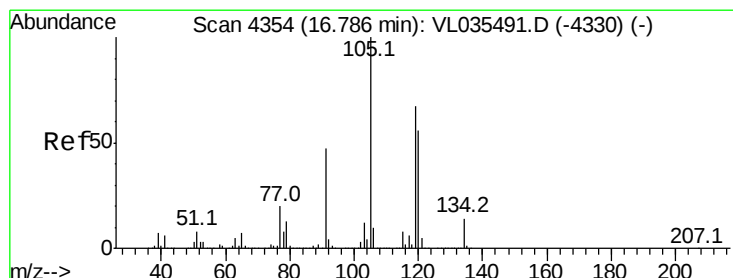
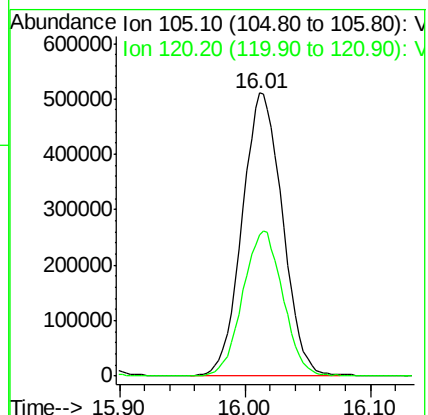
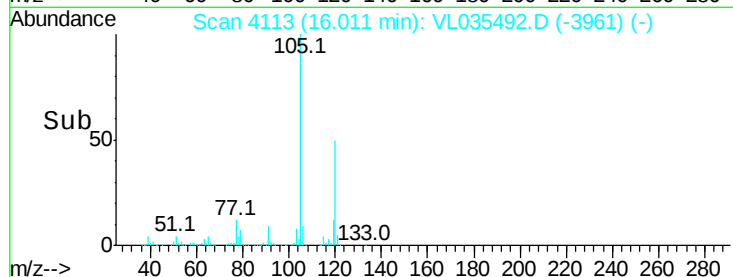
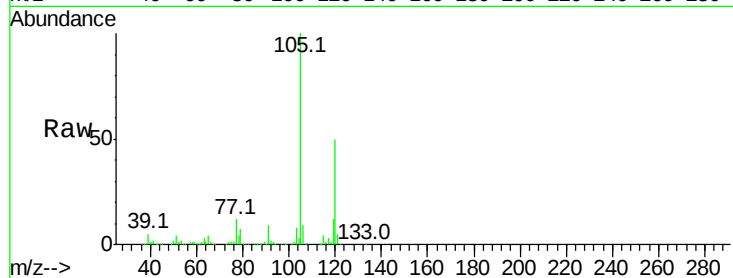
VSTDIC002

Tgt Ion:105 Resp: 1133392

Ion Ratio Lower Upper

105 100

120 50.1 43.9 65.9



#74

1,2,4-Trimethylbenzene

Concen: 1.902 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. -0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Tgt Ion:105 Resp: 1247121

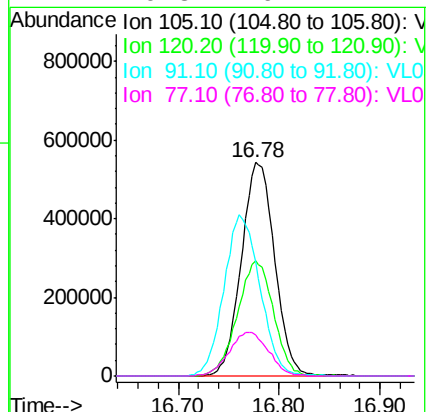
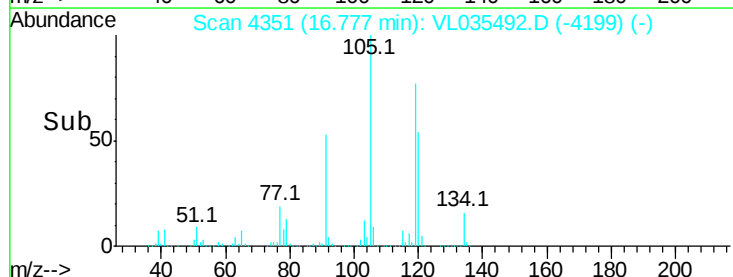
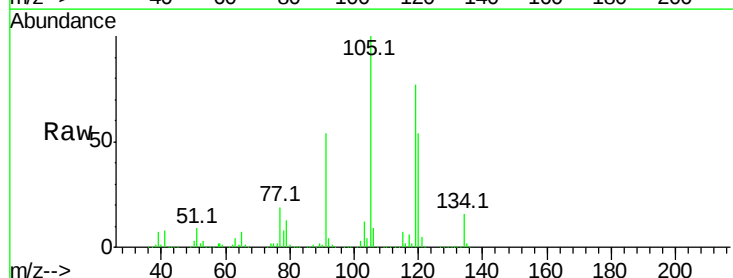
Ion Ratio Lower Upper

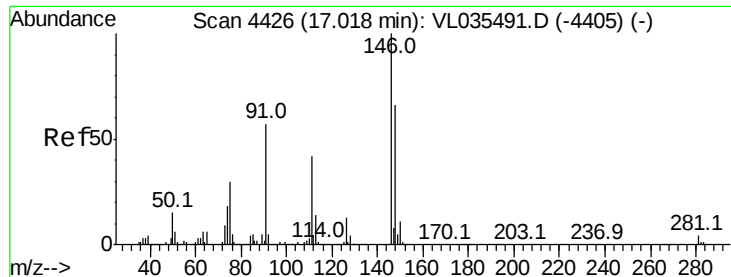
105 100

120 53.6 44.7 67.1

91 53.3 37.5 56.3

77 19.3 16.2 24.2





#75

1,3-Dichlorobenzene

Concen: 1.804 ppbv

RT: 17.01 min Scan# 4425

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

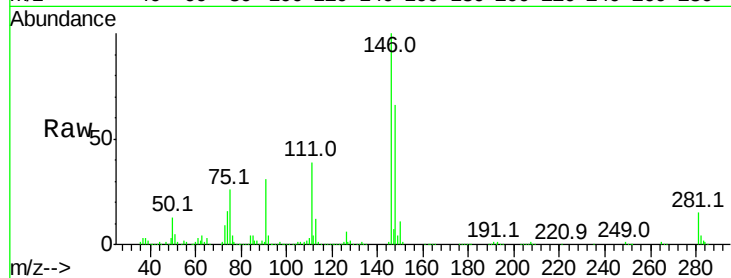
Tgt Ion:146 Resp: 913517

Ion Ratio Lower Upper

146 100

111 38.6 20.3 61.0

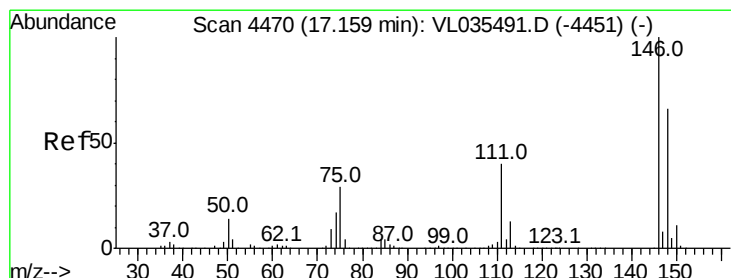
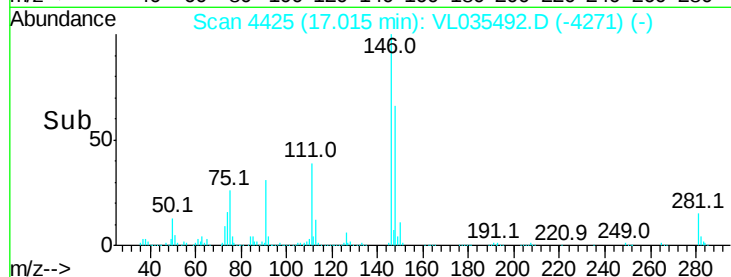
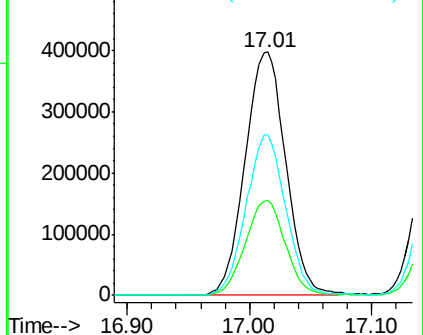
148 64.8 33.1 99.5



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: 1.794 ppbv

RT: 17.15 min Scan# 4468

Delta R.T. -0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

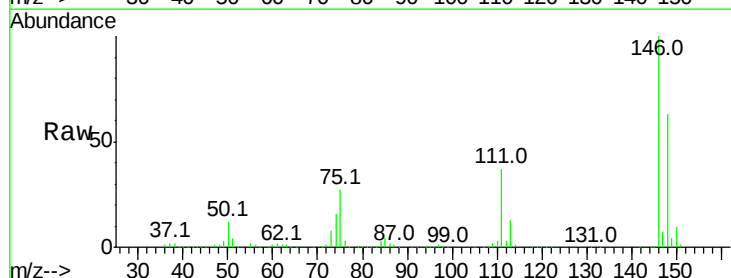
Tgt Ion:146 Resp: 895435

Ion Ratio Lower Upper

146 100

111 38.0 19.6 58.8

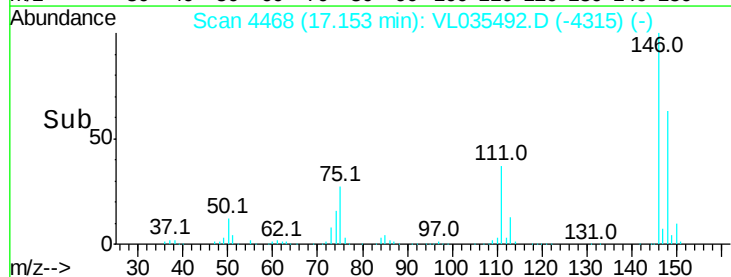
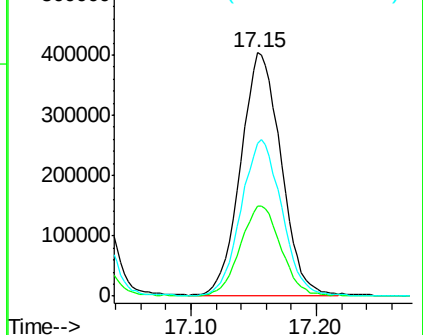
148 65.9 32.8 98.3

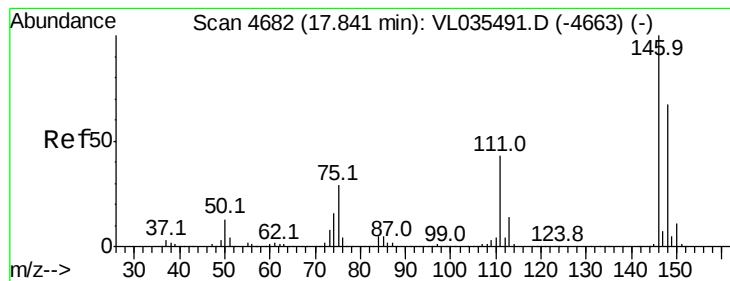


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 1.794 ppbv

RT: 17.83 min Scan# 4680

Delta R.T. -0.01 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

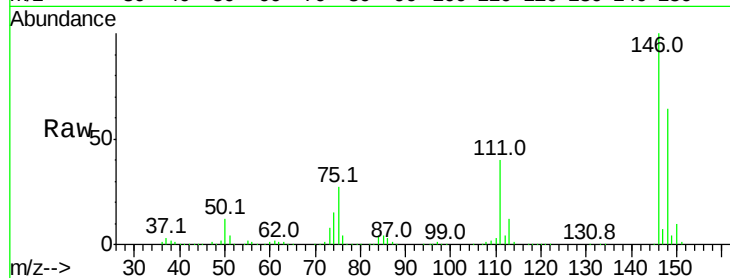
Tgt Ion:146 Resp: 889770

Ion Ratio Lower Upper

146 100

111 40.2 21.0 63.0

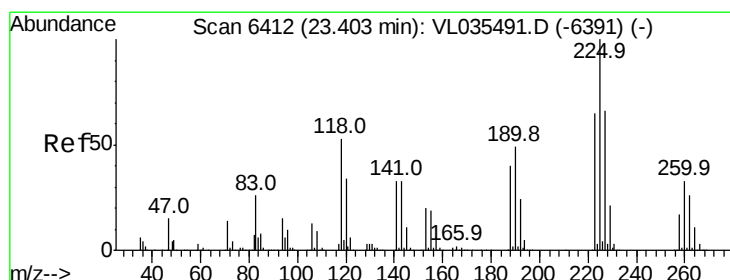
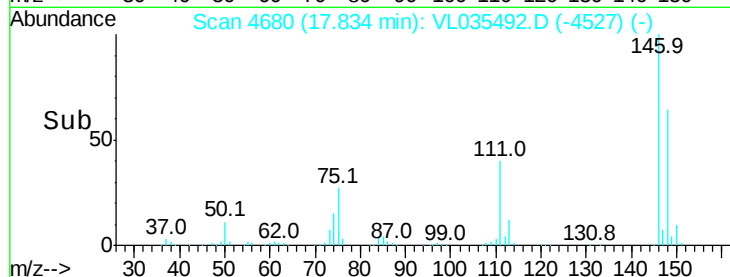
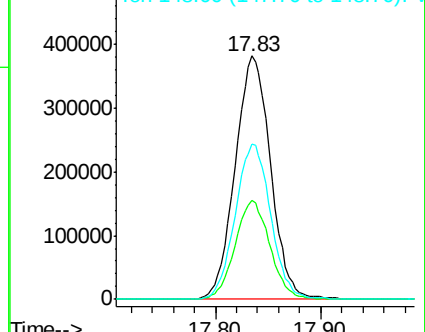
148 64.3 33.0 98.9



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: 1.677 ppbv

RT: 23.40 min Scan# 6412

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

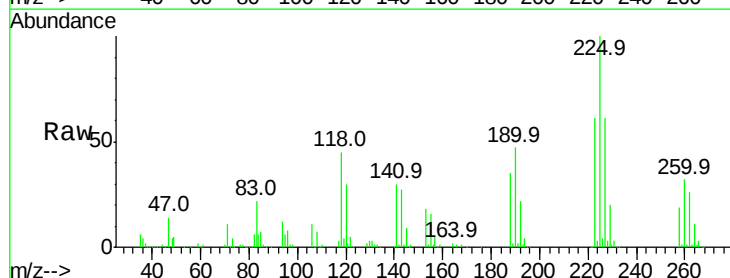
Tgt Ion:225 Resp: 657677

Ion Ratio Lower Upper

225 100

223 63.2 51.4 77.2

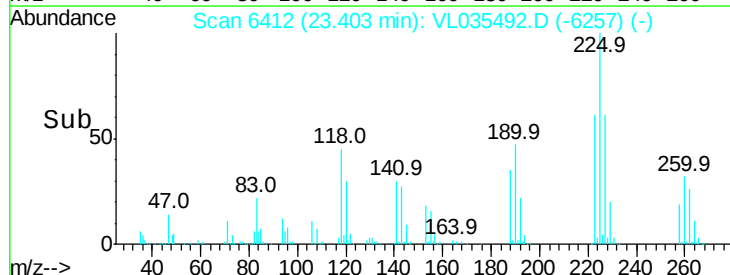
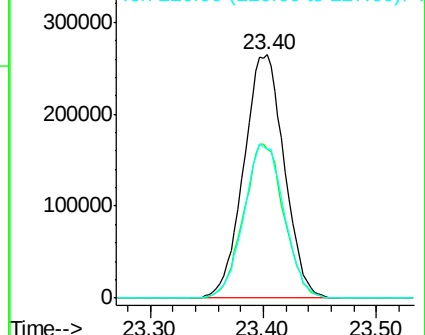
227 63.3 51.7 77.5

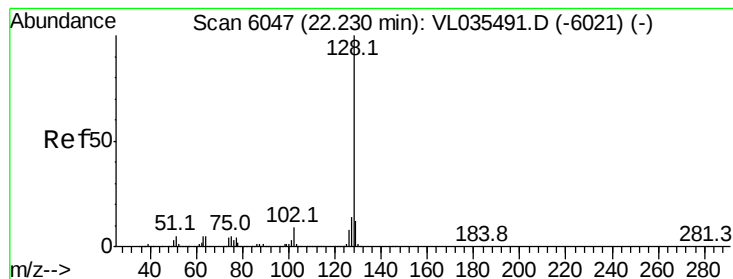


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 1.779 ppbv

RT: 22.23 min Scan# 6046

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

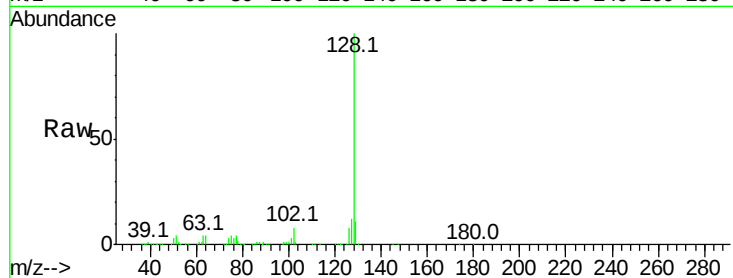
Tgt Ion:128 Resp: 1642515

Ion Ratio Lower Upper

128 100

127 12.5 11.4 17.0

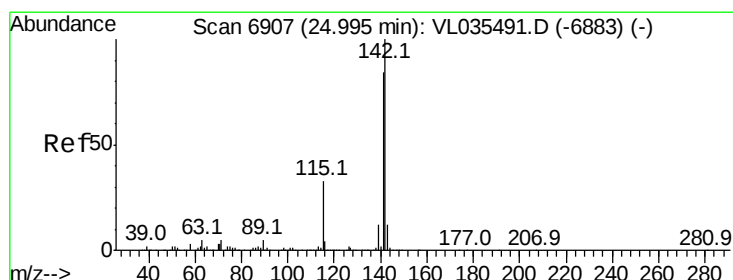
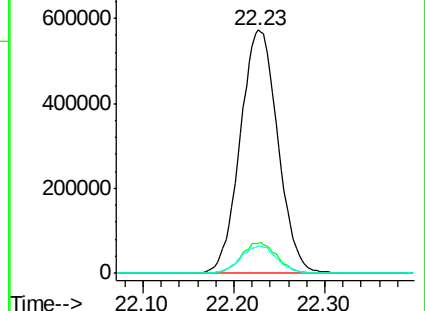
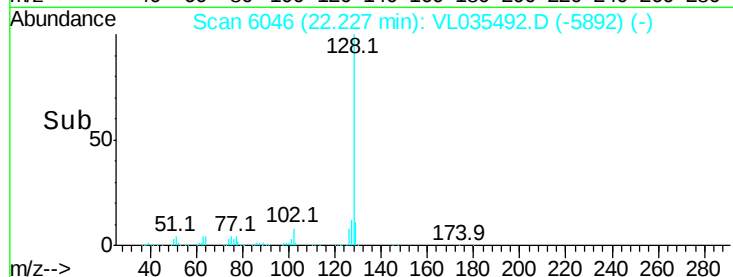
129 11.3 9.8 14.6



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: 1.855 ppbv

RT: 24.99 min Scan# 6907

Delta R.T. -0.00 min

Lab File: VL035492.D

Acq: 23 Aug 2020 8:54

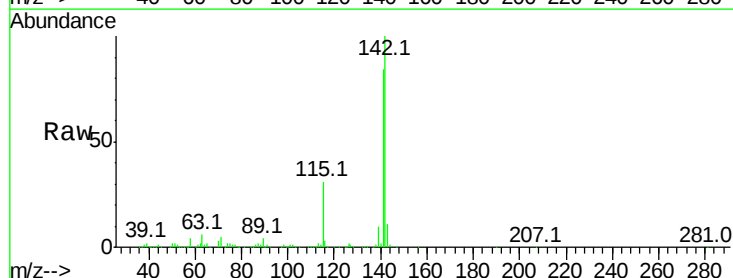
Tgt Ion:142 Resp: 707655

Ion Ratio Lower Upper

142 100

141 84.9 67.1 100.7

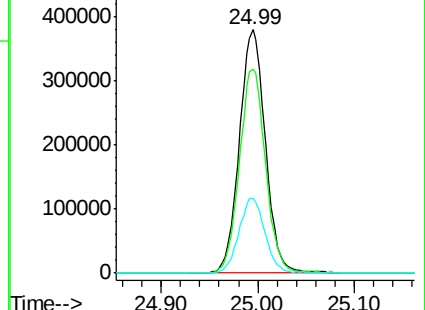
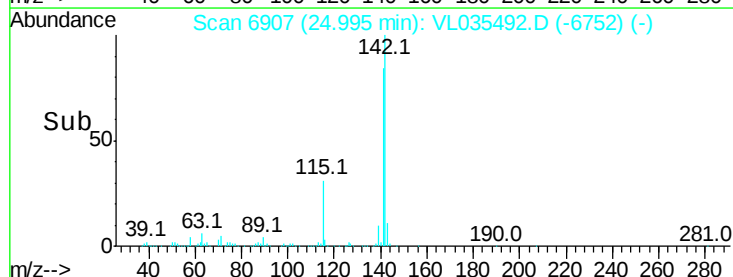
115 31.1 25.6 38.4

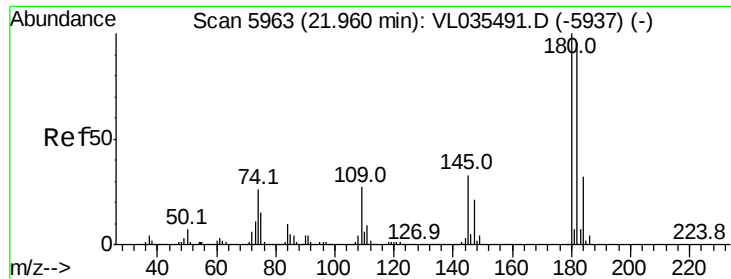


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

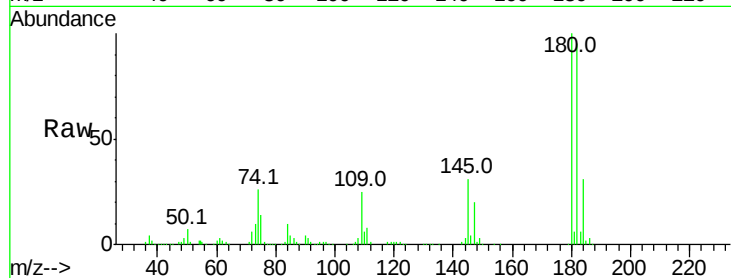




#81
 1,2,4-Trichlorobenzene
 Concen: 1.658 ppbv
 RT: 21.95 min Scan# 5961
 Delta R.T. -0.01 min
 Lab File: VL035492.D
 Acq: 23 Aug 2020 8:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.6	115.0
184	30.9	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

