

Data File : VL035378.D
Acq On : 11 Aug 2020 7:59
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Aug 11 09:41:02 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 13:04:46 2020
QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1279155	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3201751	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3966462	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2613590	7.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	79.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.00	85	1677595	9.860	ppbv	100
3) Chlorodifluoromethane	2.94	51	1462931	10.019	ppbv	98
4) Chloromethane	3.10	50	814035	9.847	ppbv	99
5) Vinyl Chloride	3.21	62	845401	9.942	ppbv	99
6) Bromomethane	3.43	94	536977	10.308	ppbv	100
7) Chloroethane	3.52	64	317894	10.066	ppbv	91
8) Dichlorotetrafluoroethane	3.14	85	2001964	9.955	ppbv	100
9) Propene	2.96	41	573245	11.017	ppbv	100
10) Heptane	8.13	43	1596329	12.011	ppbv	99
11) Trichlorofluoromethane	3.92	101	2148245	9.745	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1541505	9.784	ppbv	100
13) Ethanol	3.57	45	178526	9.948	ppbv	93
14) Bromoethene	3.70	108	667802	10.570	ppbv	99
15) Acetone	3.82	43	1644470	9.053	ppbv	99
16) 1,3-Butadiene	3.29	39	763872	10.925	ppbv	98
17) tert-Butyl alcohol	4.26	59	1882357	11.291	ppbv	99
18) 1,1-Dichloroethene	4.26	96	699018	10.332	ppbv	95
19) Isopropyl Alcohol	3.93	45	1241722	10.784	ppbv	100
20) Methylene Chloride	4.31	84	624620	8.432	ppbv	95
21) Allyl Chloride	4.38	41	1121423	10.775	ppbv	97
22) trans-1,2-Dichloroethene	4.86	96	694175	10.581	ppbv	93
23) Vinyl Acetate	5.06	43	2068356	11.875	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1692820	10.342	ppbv	98
25) Ethyl Acetate	5.66	43	2949741	10.687	ppbv	99
26) Hexane	5.68	57	1294997	10.817	ppbv	98
27) Carbon Disulfide	4.53	76	1830216	10.932	ppbv	98
28) Methyl tert-Butyl Ether	5.01	73	2017266	11.588	ppbv	99
29) Chloroform	5.75	83	2107904	10.213	ppbv	100
30) Cyclohexane	7.13	84	1088393	11.989	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1263562	11.872	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	2096962	9.666	ppbv	100
34) 2-Butanone	5.23	43	1789748	11.353	ppbv	99
35) Carbon Tetrachloride	7.02	117	2233446	10.137	ppbv	97
36) Benzene	6.89	78	2534774	11.724	ppbv	100
37) 1,2-Dichloroethane	6.30	62	1631370	10.801	ppbv	99
38) Trichloroethene	7.84	130	1084505	10.874	ppbv	97
39) 1,2-Dichloropropane	7.62	63	978008	11.174	ppbv	99
40) 1,4-Dioxane	7.84	88	422210	11.264	ppbv #	1
41) Tetrahydrofuran	6.04	42	963993	12.460	ppbv	100
42) Bromodichloromethane	7.80	83	2229733	10.993	ppbv	97
43) Methyl Methacrylate	8.02	69	1142979	12.566	ppbv	99

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QLast Update : Wed Aug 05 13:04:46 2020

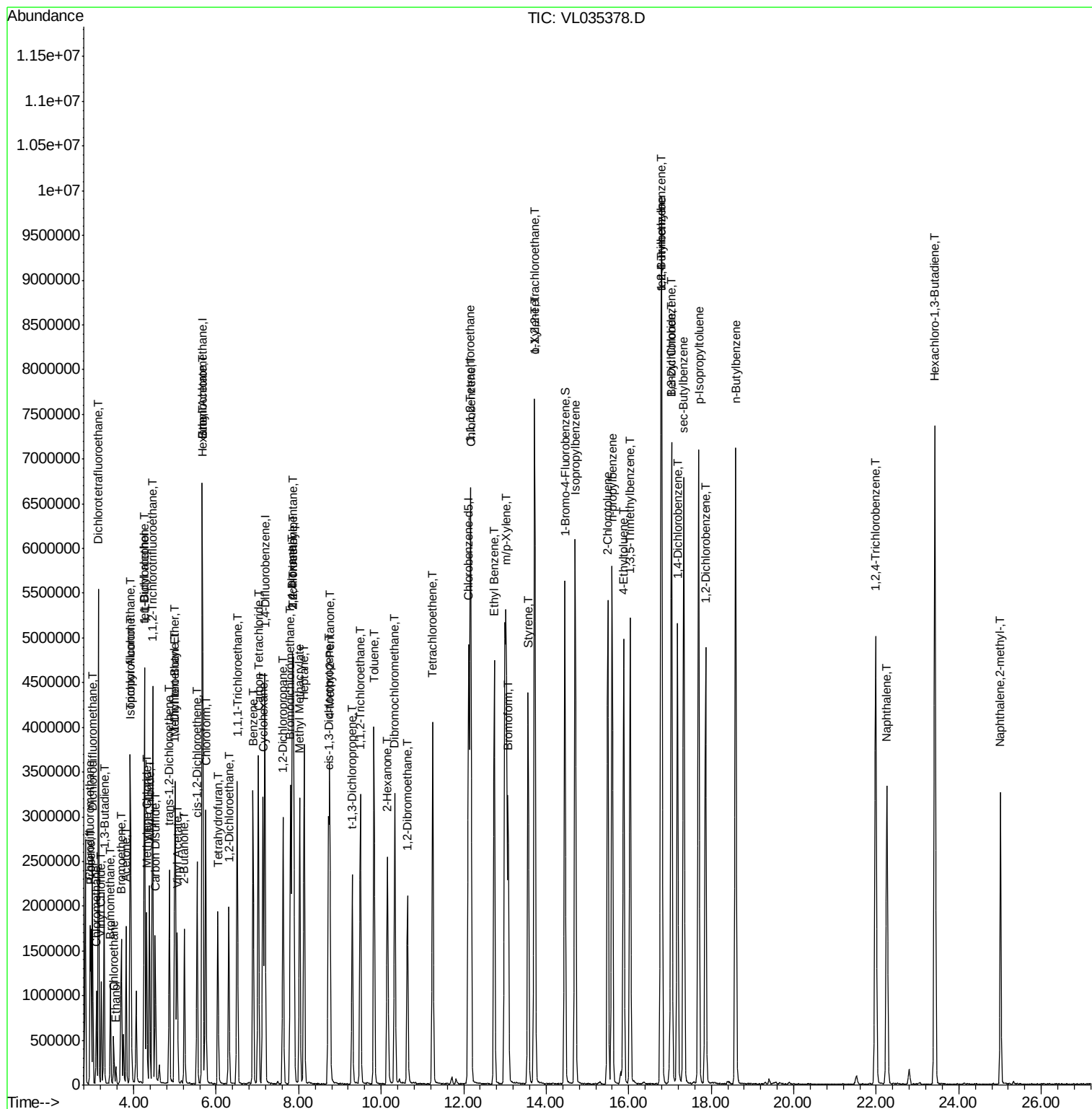
Response via : Initial Calibration

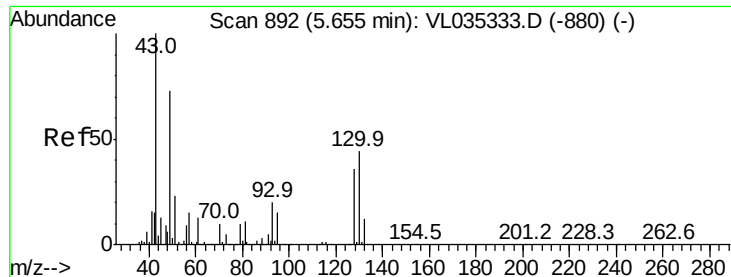
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4372891	11.385	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	1312531	13.911	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	1542761	13.539	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	1111066	10.558	ppbv	98
48) Dibromochloromethane	10.33	129	1941792	11.264	ppbv	98
49) Bromoform	13.08	173	1833704	11.674	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	2737933	11.375	ppbv	100
51) 2-Hexanone	10.15	43	2241639	11.879	ppbv #	98
52) Tetrachloroethene	11.25	164	971704	11.336	ppbv	97
53) Toluene	9.83	91	3029426	12.881	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1729744	11.457	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.16	131	1537856	8.214	ppbv	96
57) Chlorobenzene	12.18	112	2467574	8.262	ppbv	99
58) Ethyl Benzene	12.74	91	4099158	9.932	ppbv	98
59) m/p-Xylene	13.02	91	967649	2.518	ppbv #	29
60) o-Xylene	13.73	91	3533148	9.264	ppbv	100
61) Styrene	13.56	104	2494848	10.711	ppbv	99
62) Isopropylbenzene	14.70	105	5217153	9.085	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.72	83	2548601	7.833	ppbv	99
64) n-propylbenzene	15.60	120	1433432	9.289	ppbv	98
65) tert-Butylbenzene	16.79	119	4781170	9.093	ppbv	100
66) Benzyl Chloride	17.03	91	2096139	10.072	ppbv	100
67) sec-Butylbenzene	17.34	105	6536701	8.789	ppbv	100
69) p-Isopropyltoluene	17.70	119	5601920	9.239	ppbv	99
70) n-Butylbenzene	18.59	91	5815309	8.966	ppbv	100
71) 2-Chlorotoluene	15.49	91	4036979	9.597	ppbv	100
72) 4-Ethyltoluene	15.88	105	4213252	9.690	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	3962873	9.498	ppbv	99
74) 1,2,4-Trimethylbenzene	16.81	105	4212061	8.833	ppbv	97
75) 1,3-Dichlorobenzene	17.04	146	2514494	8.060	ppbv	100
76) 1,4-Dichlorobenzene	17.19	146	2495167	8.637	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	2408257	8.365	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1119420	4.570	ppbv #	25
79) Naphthalene	22.26	128	4170395	11.370	ppbv	99
80) Naphthalene,2-methyl-	25.01	142	1688724	20.240	ppbv	98
81) 1,2,4-Trichlorobenzene	21.98	180	1133019	4.902	ppbv #	12

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration

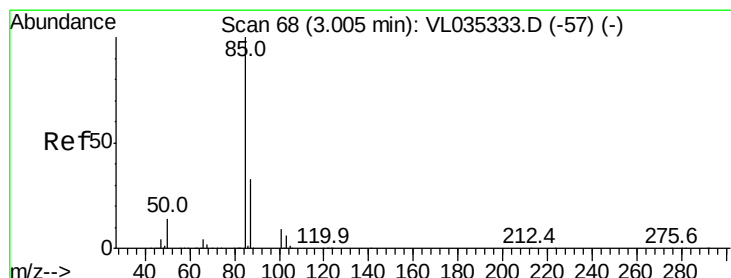
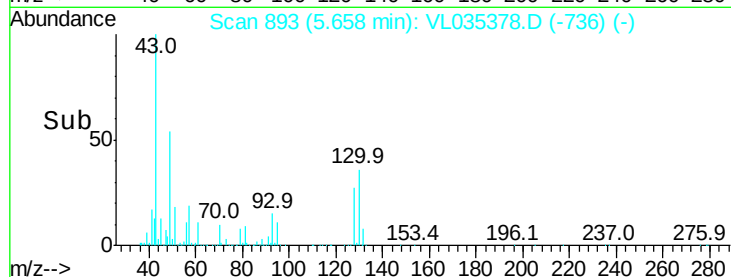
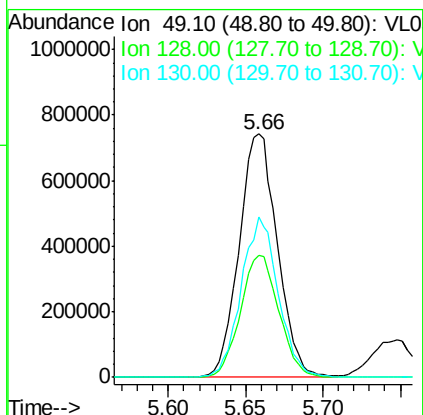
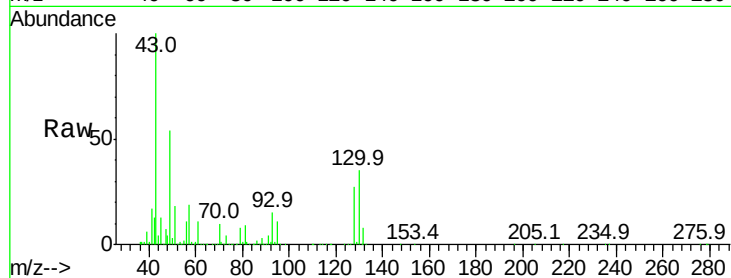




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

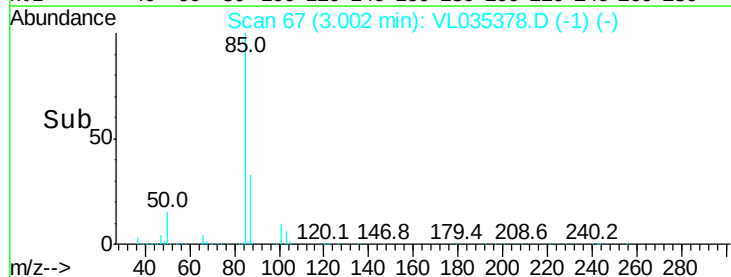
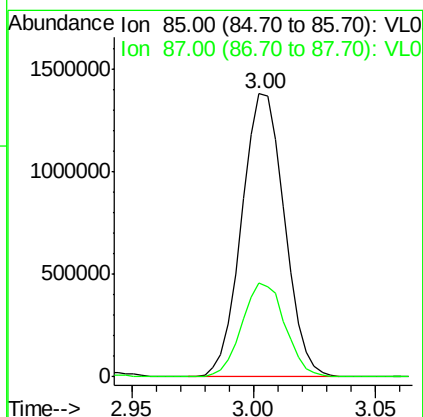
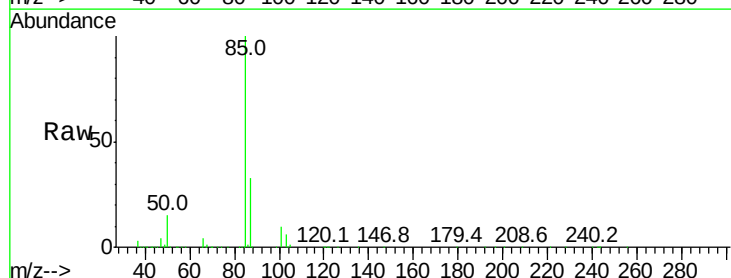
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

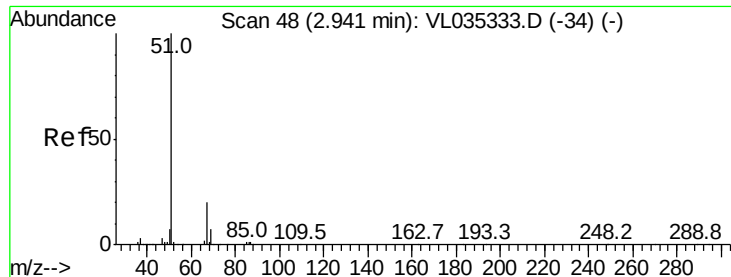
Tgt Ion: 49 Resp: 1279155
 Ion Ratio Lower Upper
 49 100
 128 50.3 25.4 76.0
 130 64.1 32.1 96.3



#2
 Dichlorodifluoromethane
 Concen: 9.860 ppbv
 RT: 3.00 min Scan# 67
 Delta R.T. -0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

Tgt Ion: 85 Resp: 1677595
 Ion Ratio Lower Upper
 85 100
 87 33.1 26.7 40.1





#3

Chlorodifluoromethane

Concen: 10.019 ppbv

RT: 2.94 min Scan# 48

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

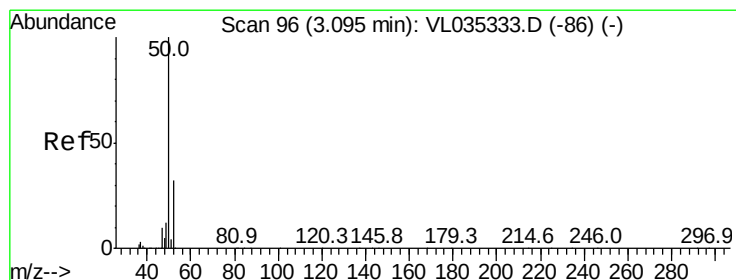
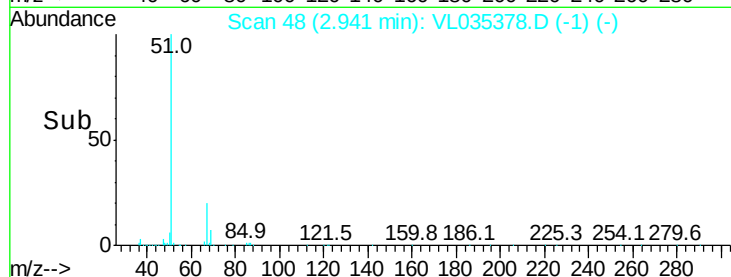
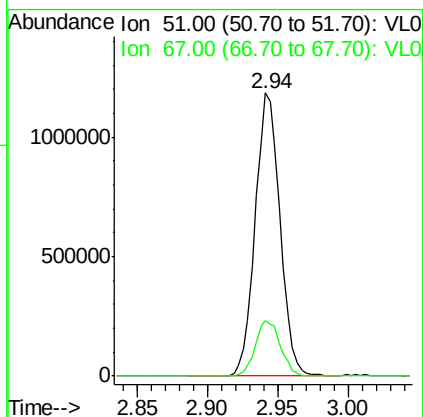
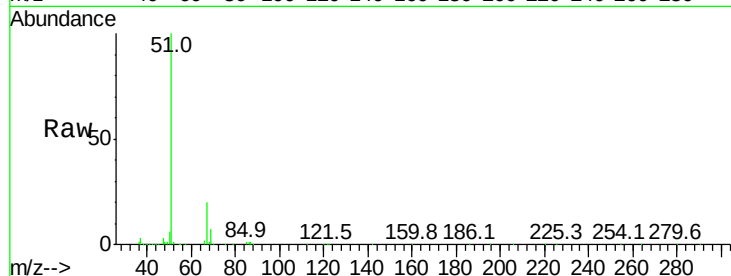
VSTDCCC010EC

Tgt Ion: 51 Resp: 1462931

Ion Ratio Lower Upper

51 100

67 20.1 16.6 25.0



#4

Chloromethane

Concen: 9.847 ppbv

RT: 3.10 min Scan# 96

Delta R.T. 0.00 min

Lab File: VL035378.D

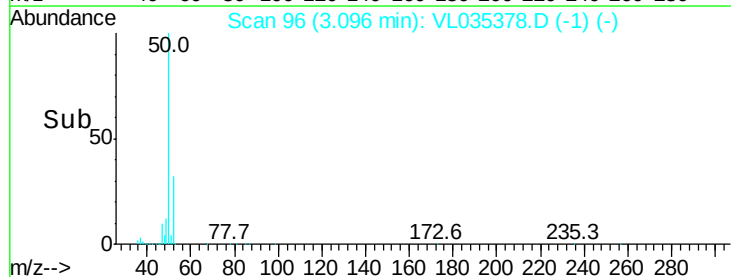
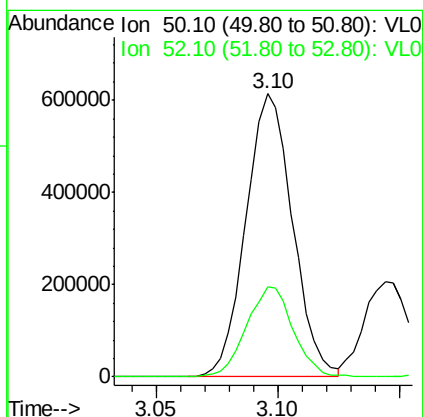
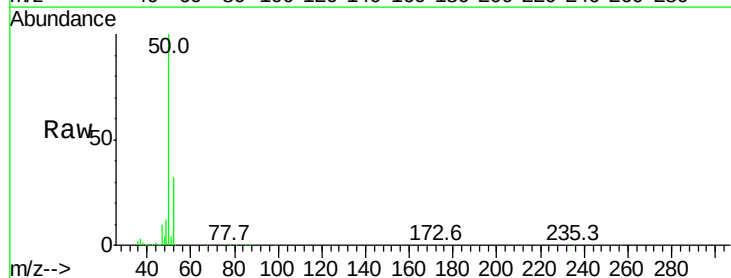
Acq: 11 Aug 2020 7:59

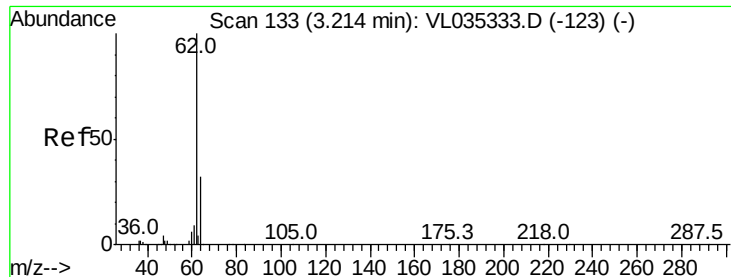
Tgt Ion: 50 Resp: 814035

Ion Ratio Lower Upper

50 100

52 32.1 26.0 39.0





#5

Vinyl Chloride

Concen: 9.942 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

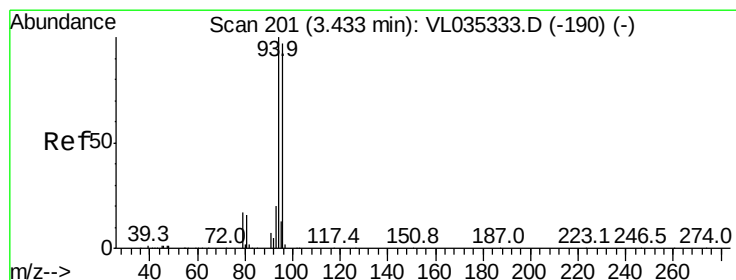
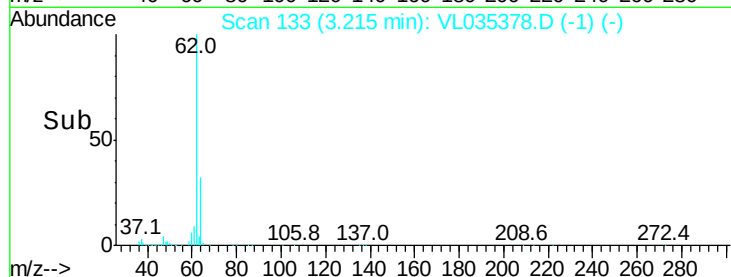
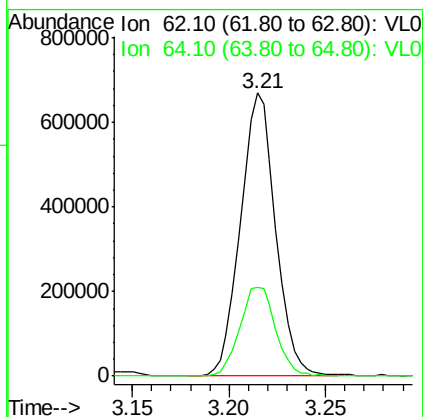
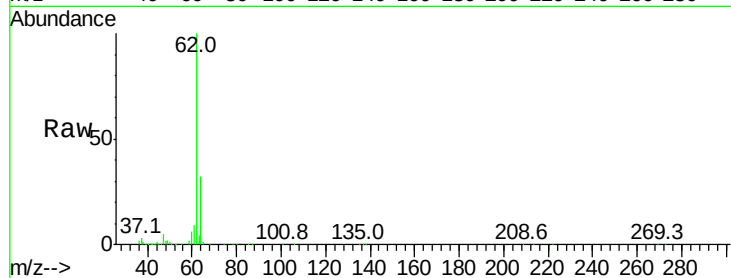
VSTDCCC010EC

Tgt Ion: 62 Resp: 845401

Ion Ratio Lower Upper

62 100

64 31.5 25.8 38.6



#6

Bromomethane

Concen: 10.308 ppbv

RT: 3.43 min Scan# 201

Delta R.T. 0.00 min

Lab File: VL035378.D

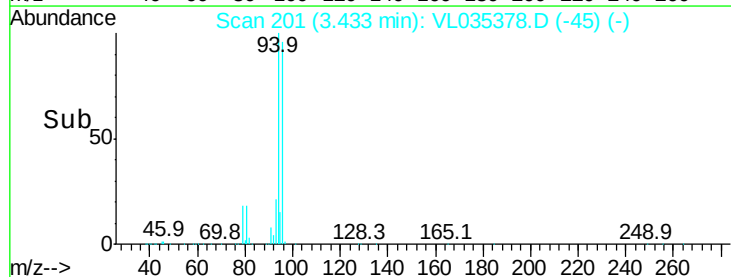
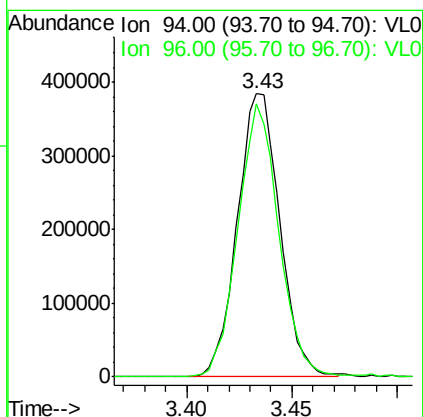
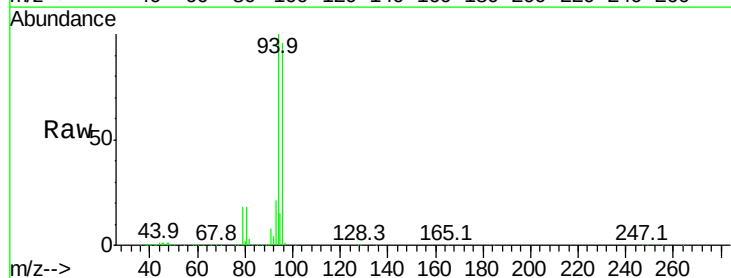
Acq: 11 Aug 2020 7:59

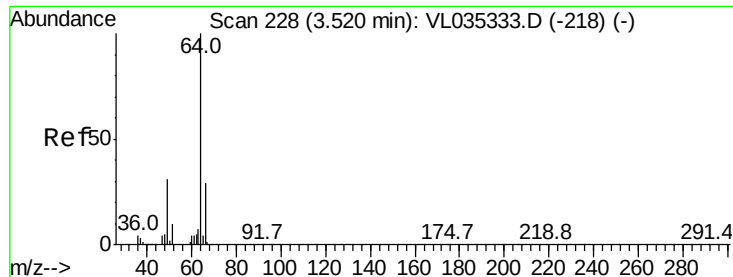
Tgt Ion: 94 Resp: 536977

Ion Ratio Lower Upper

94 100

96 96.3 77.3 115.9





#7

Chloroethane

Concen: 10.066 ppbv

RT: 3.52 min Scan# 227

Delta R.T. -0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

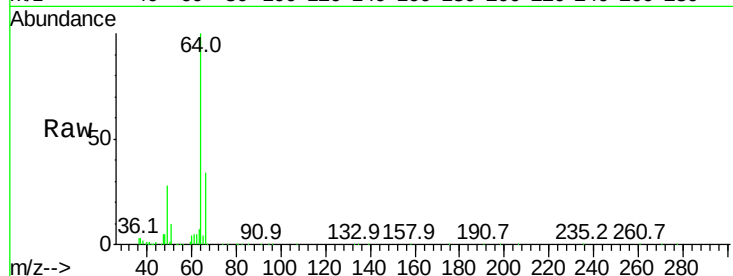
VSTDCCC010EC

Tgt Ion: 64 Resp: 317894

Ion Ratio Lower Upper

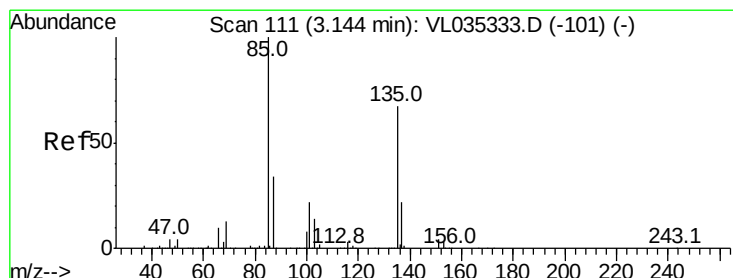
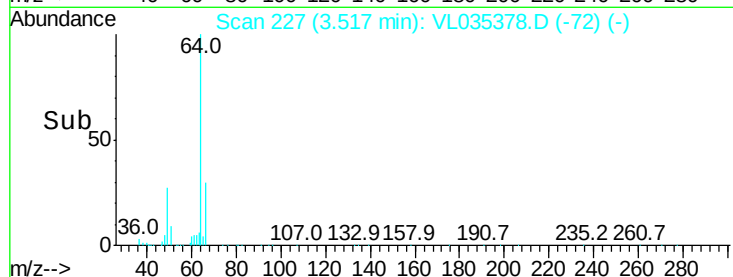
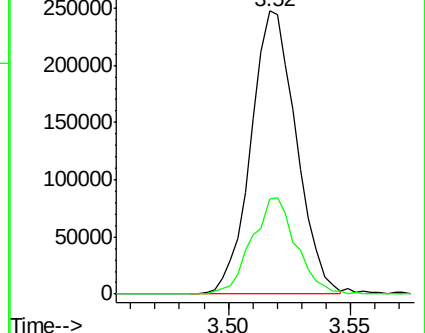
64 100

66 33.6 23.0 34.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.955 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL035378.D

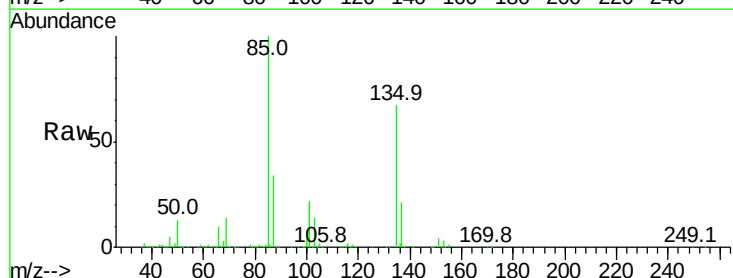
Acq: 11 Aug 2020 7:59

Tgt Ion: 85 Resp: 2001964

Ion Ratio Lower Upper

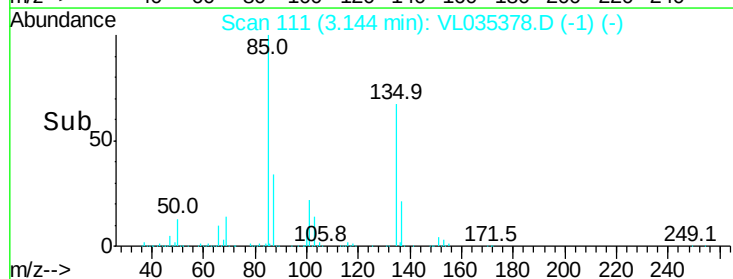
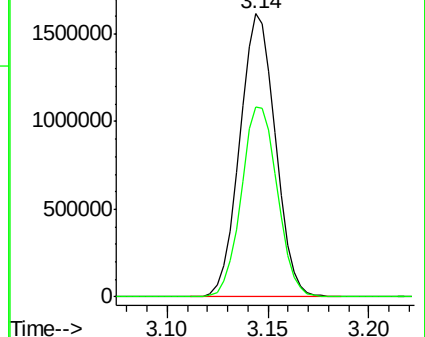
85 100

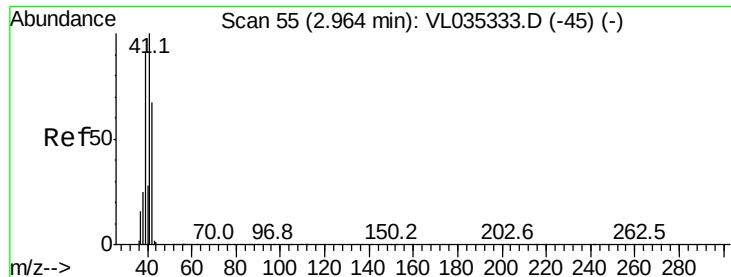
135 68.1 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 11.017 ppbv

RT: 2.96 min Scan# 55

Delta R.T. 0.00 min

Lab File: VL035378.D

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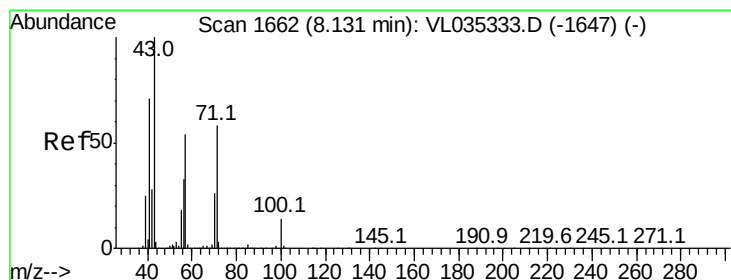
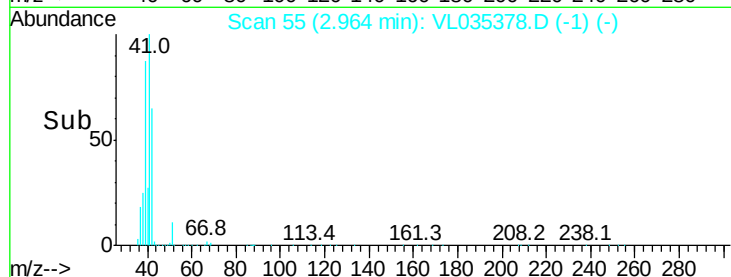
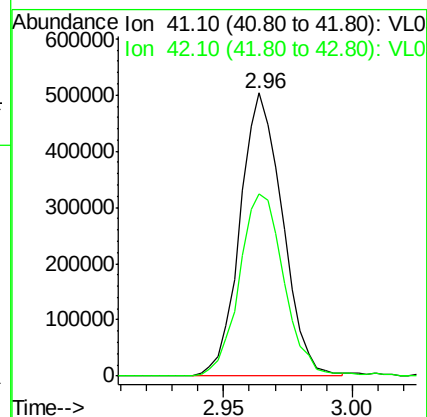
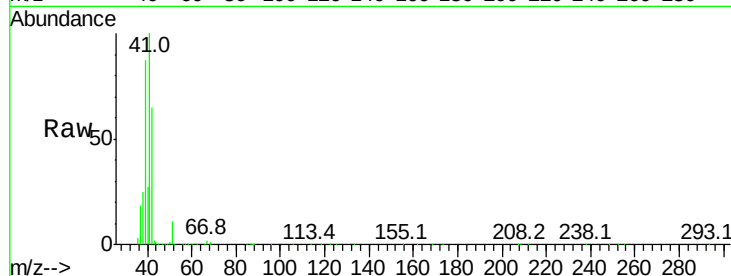
VSTDCCC010EC

Tgt Ion: 41 Resp: 573245

Ion Ratio Lower Upper

41 100

42 69.1 55.3 82.9



#10

Heptane

Concen: 12.011 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL035378.D

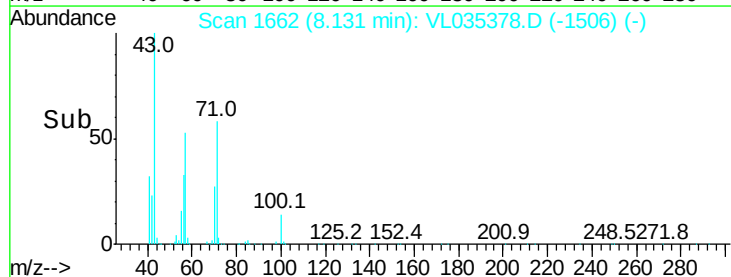
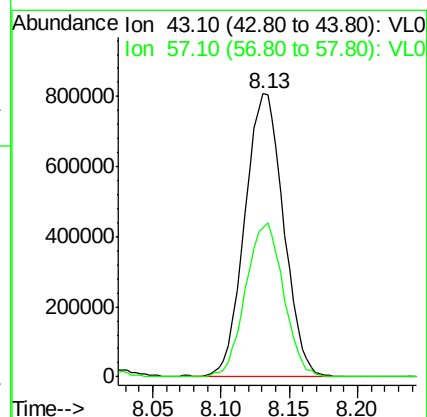
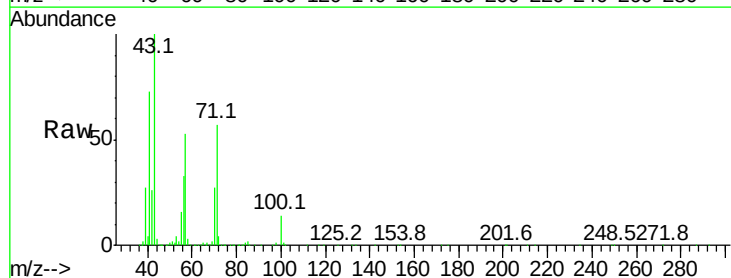
Acq: 11 Aug 2020 7:59

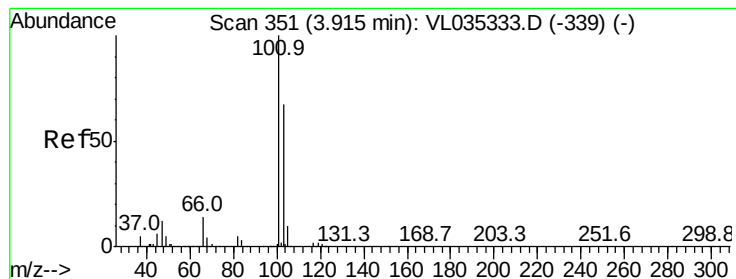
Tgt Ion: 43 Resp: 1596329

Ion Ratio Lower Upper

43 100

57 53.2 43.0 64.6





#11

Trichlorofluoromethane

Concen: 9.745 ppbv

RT: 3.92 min Scan# 351

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

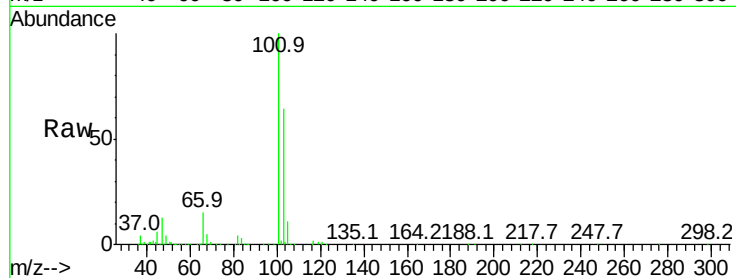
VSTDCCC010EC

Tgt Ion:101 Resp: 2148245

Ion Ratio Lower Upper

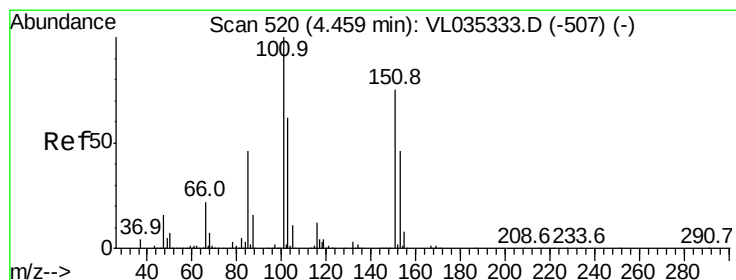
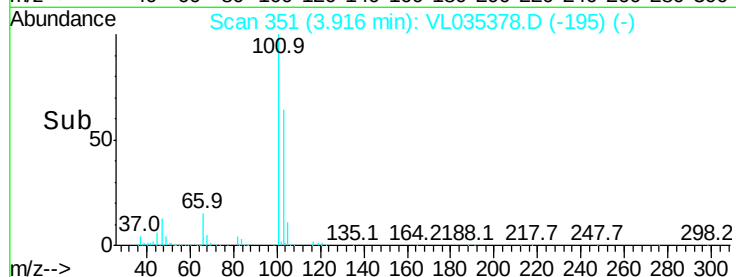
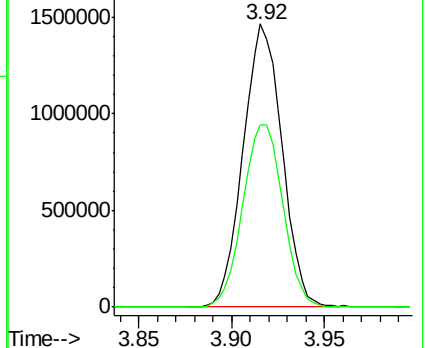
101 100

103 64.5 53.8 80.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.784 ppbv

RT: 4.46 min Scan# 520

Delta R.T. 0.00 min

Lab File: VL035378.D

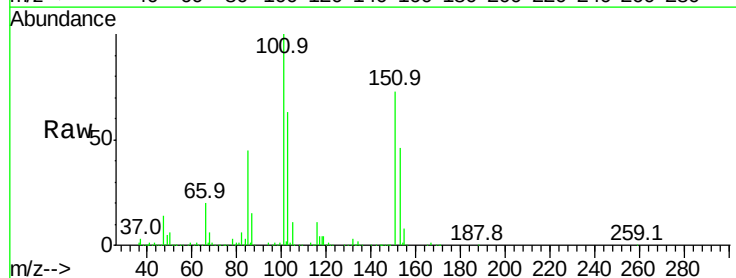
Acq: 11 Aug 2020 7:59

Tgt Ion:101 Resp: 1541505

Ion Ratio Lower Upper

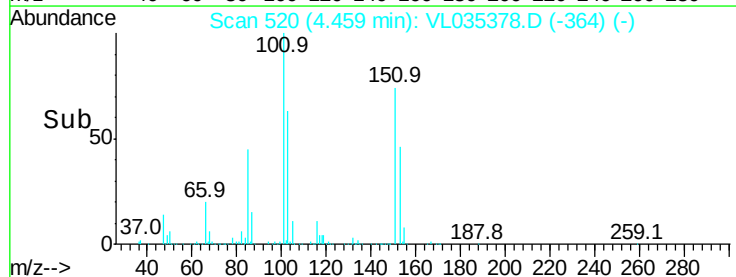
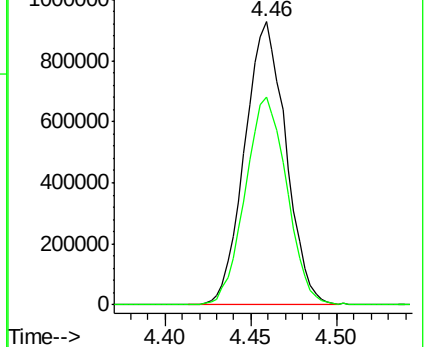
101 100

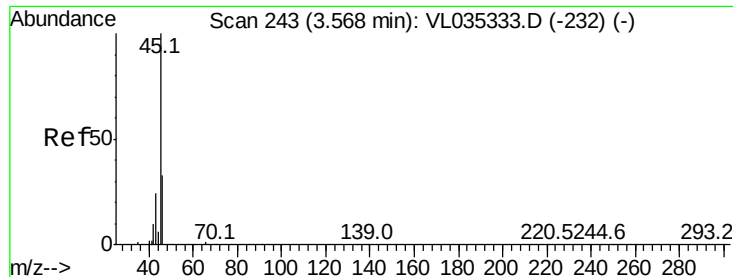
151 74.5 59.5 89.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 9.948 ppbv

RT: 3.57 min Scan# 242

Delta R.T. -0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

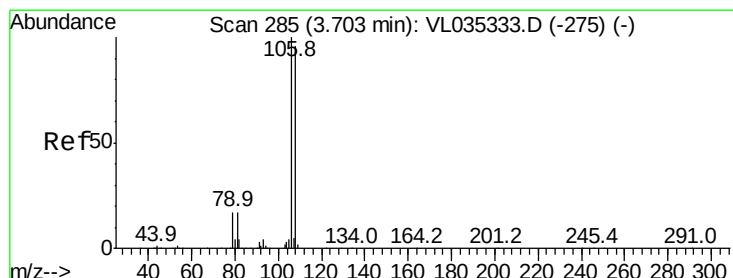
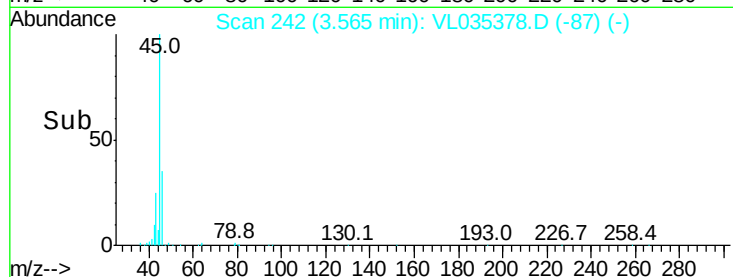
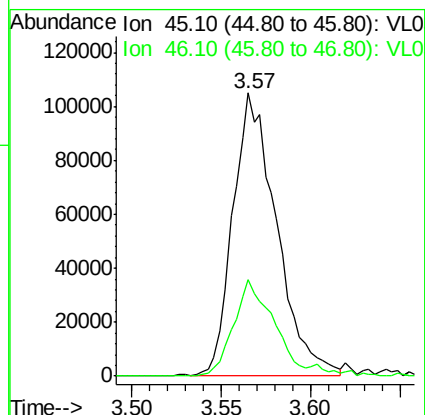
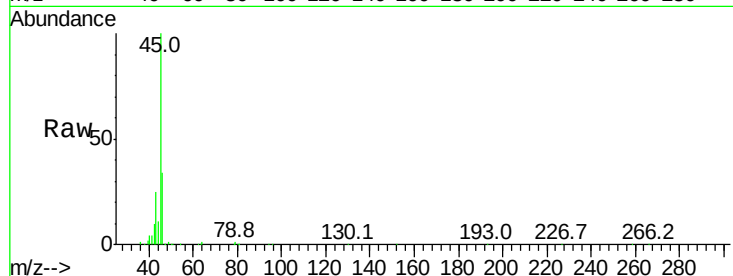
VSTDCCC010EC

Tgt Ion: 45 Resp: 178526

Ion Ratio Lower Upper

45 100

46 34.0 15.2 61.0



#14

Bromoethene

Concen: 10.570 ppbv

RT: 3.70 min Scan# 285

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

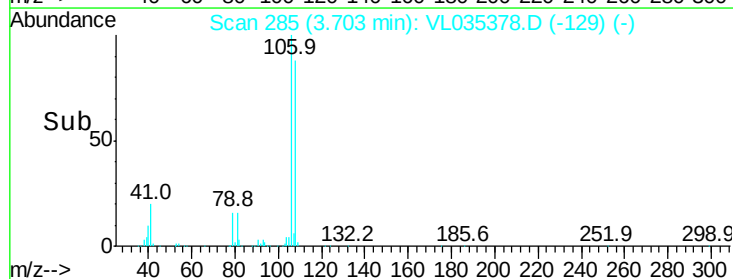
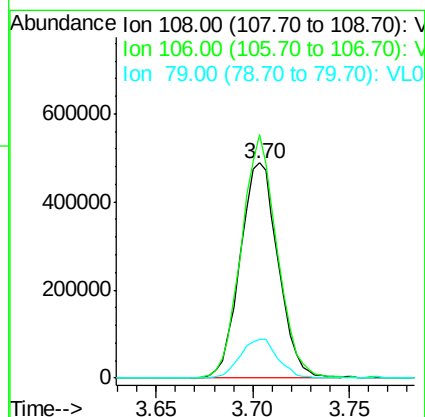
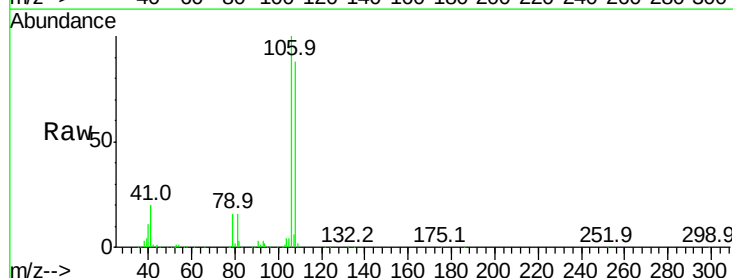
Tgt Ion: 108 Resp: 667802

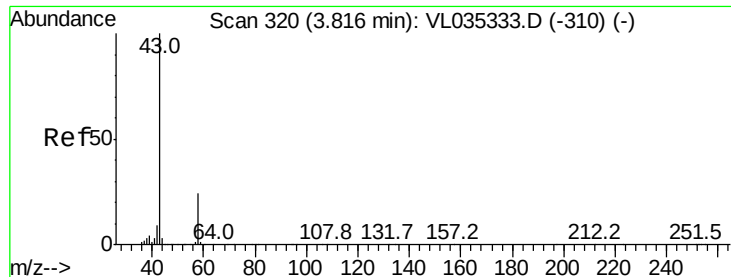
Ion Ratio Lower Upper

108 100

106 107.6 85.0 127.6

79 18.2 15.0 22.6





#15

Acetone

Concen: 9.053 ppbv

RT: 3.82 min Scan# 320

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

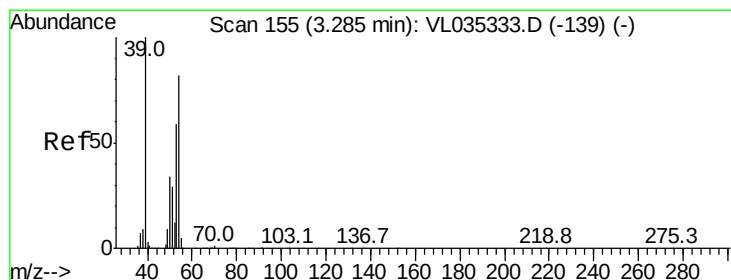
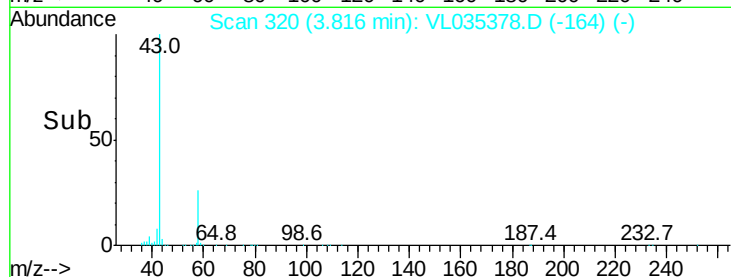
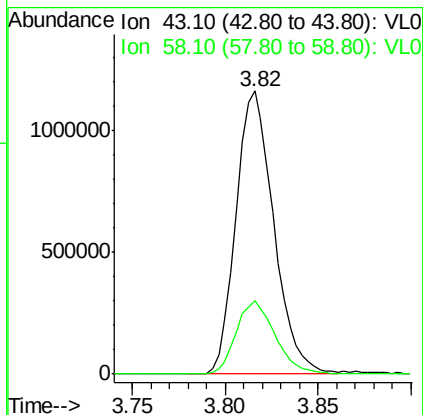
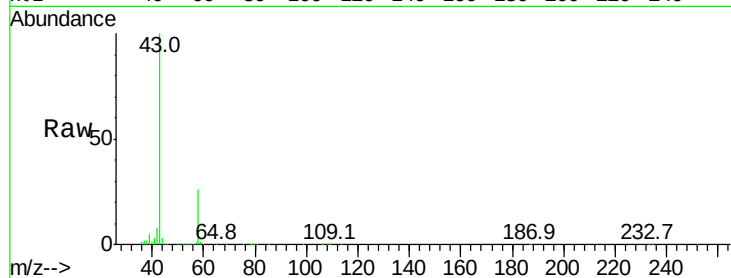
VSTDCCC010EC

Tgt Ion: 43 Resp: 1644470

Ion Ratio Lower Upper

43 100

58 26.8 21.0 31.4



#16

1,3-Butadiene

Concen: 10.925 ppbv

RT: 3.29 min Scan# 155

Delta R.T. 0.00 min

Lab File: VL035378.D

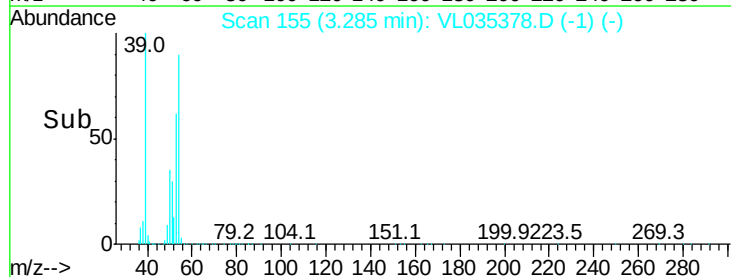
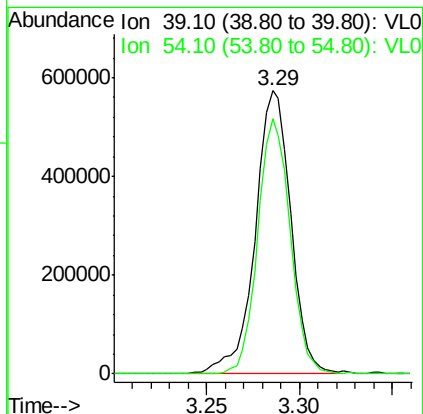
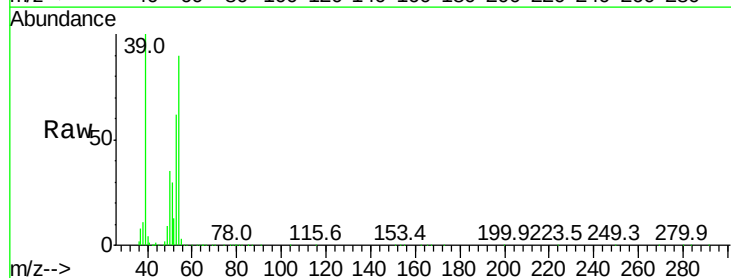
Acq: 11 Aug 2020 7:59

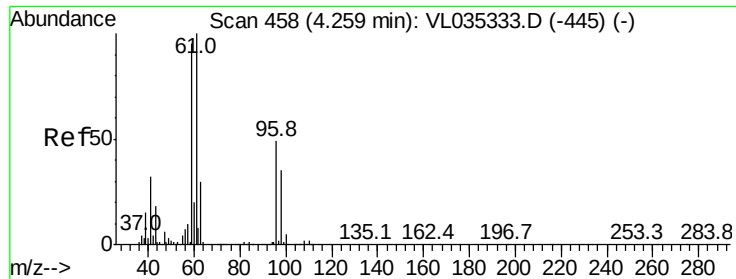
Tgt Ion: 39 Resp: 763872

Ion Ratio Lower Upper

39 100

54 82.4 64.4 96.6





#17

tert-Butyl alcohol

Concen: 11.291 ppbv

RT: 4.26 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

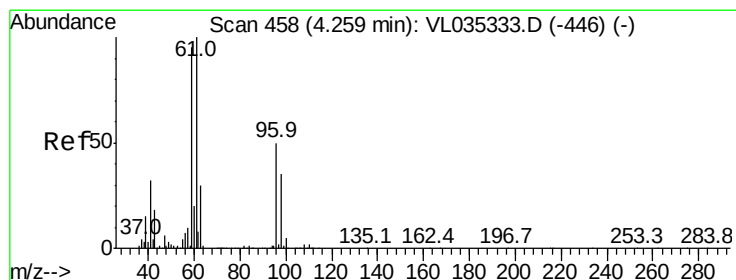
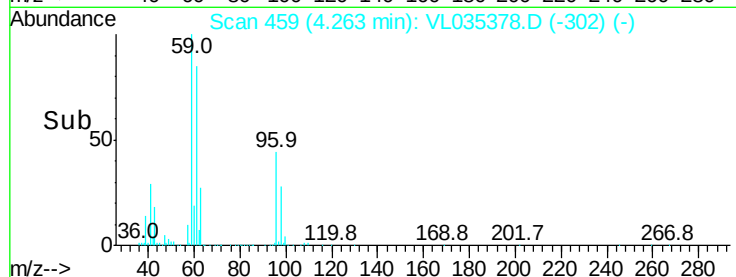
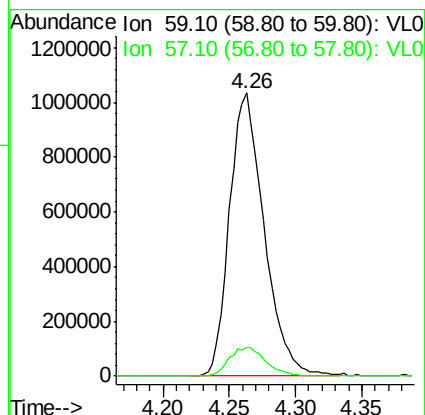
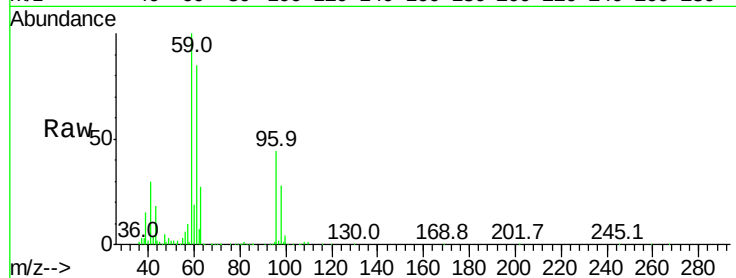
VSTDCCC010EC

Tgt Ion: 59 Resp: 1882357

Ion Ratio Lower Upper

59 100

57 10.8 8.8 13.2



#18

1,1-Dichloroethene

Concen: 10.332 ppbv

RT: 4.26 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

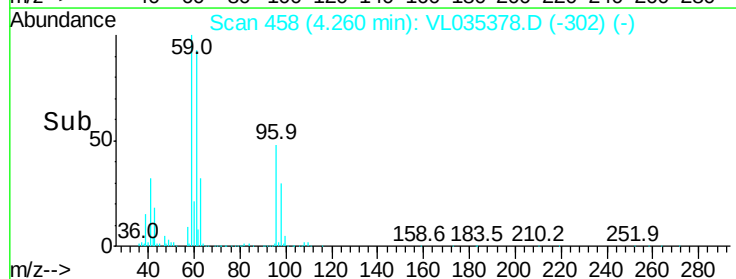
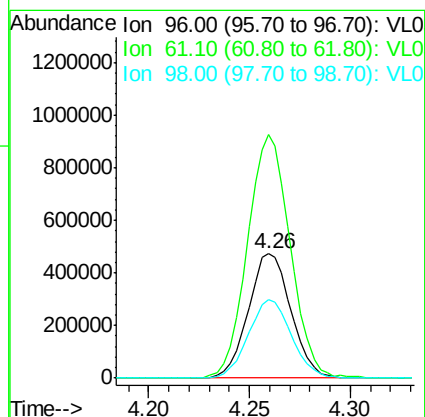
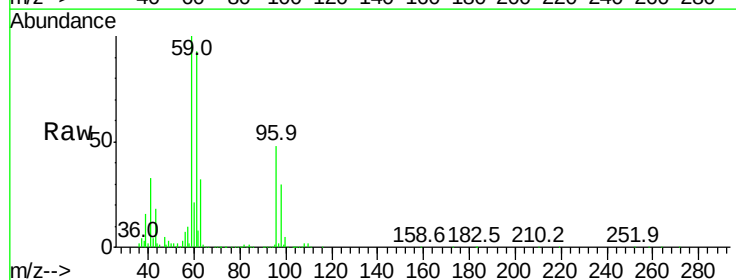
Tgt Ion: 96 Resp: 699018

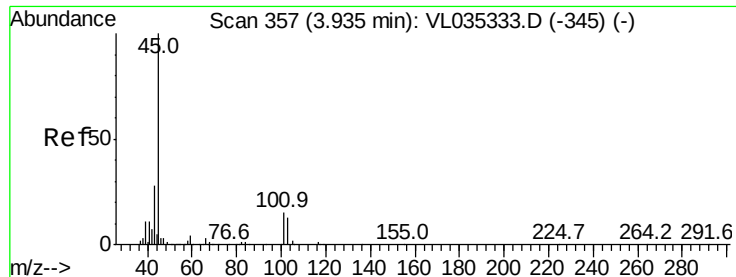
Ion Ratio Lower Upper

96 100

61 195.6 161.4 242.2

98 62.8 56.0 84.0



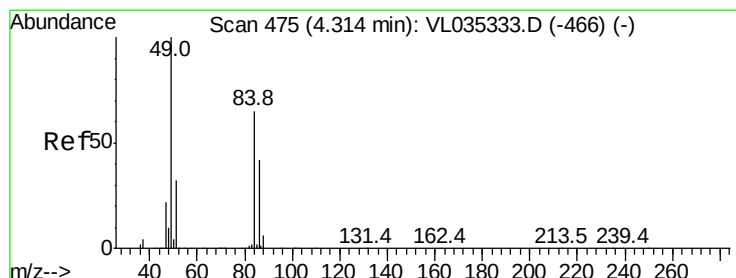
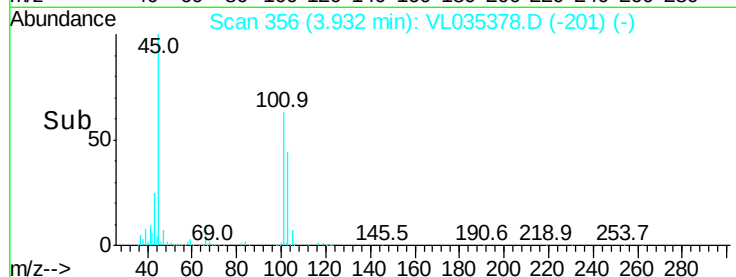
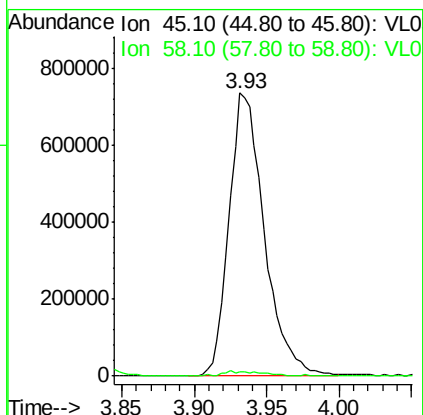
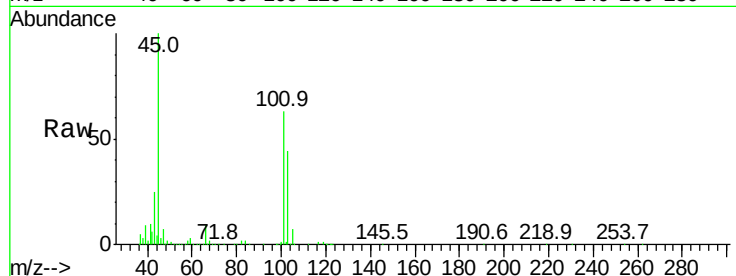


#19

Isopropyl Alcohol
 Concen: 10.784 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

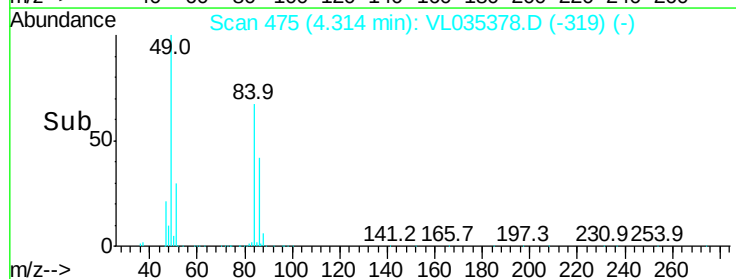
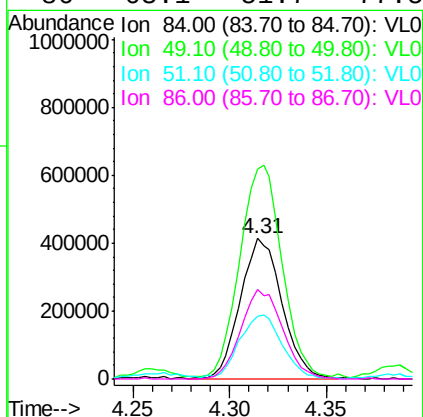
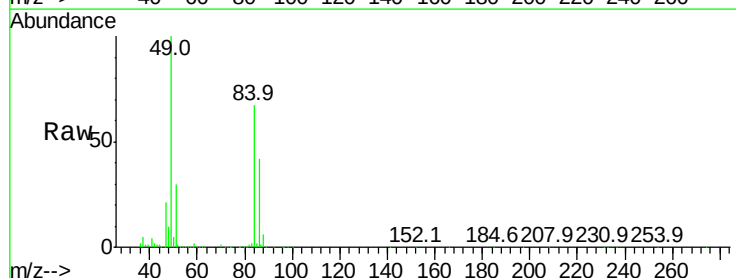
Tgt Ion: 45 Resp: 1241722
 Ion Ratio Lower Upper
 45 100
 58 2.2 1.9 2.9

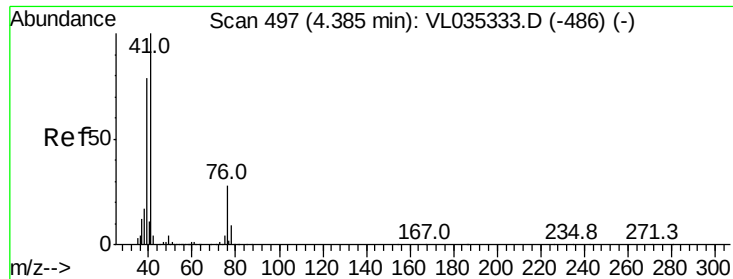


#20

Methylene Chloride
 Concen: 8.432 ppbv
 RT: 4.31 min Scan# 475
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

Tgt Ion: 84 Resp: 624620
 Ion Ratio Lower Upper
 84 100
 49 147.3 122.8 184.2
 51 43.4 40.1 60.1
 86 63.1 51.7 77.5

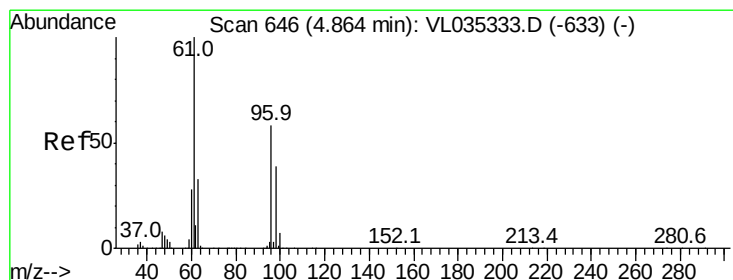
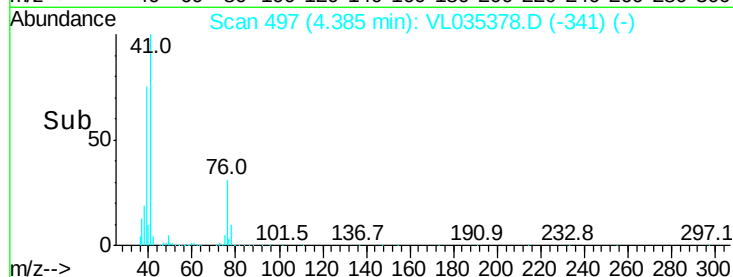
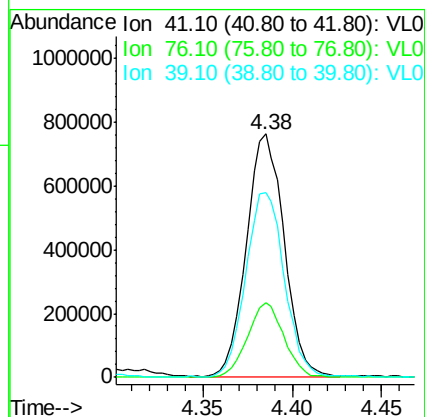
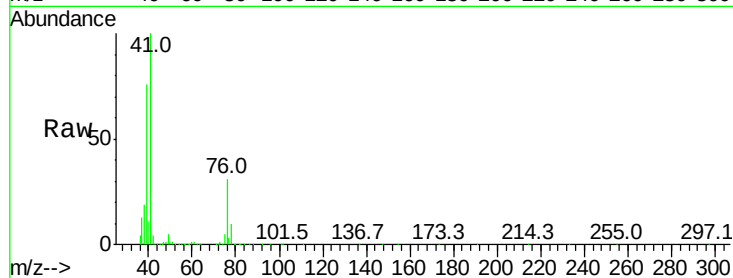




#21
 Allyl Chloride
 Concen: 10.775 ppbv
 RT: 4.38 min Scan# 497
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

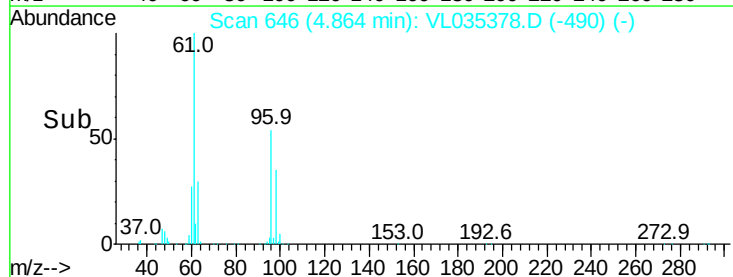
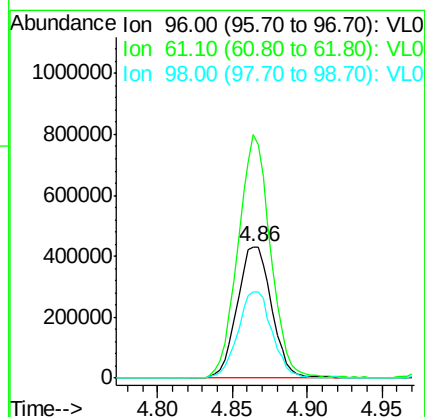
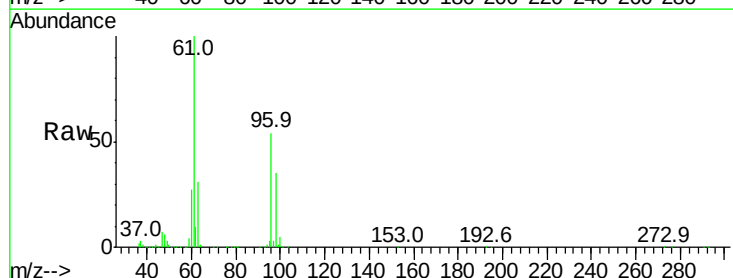
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

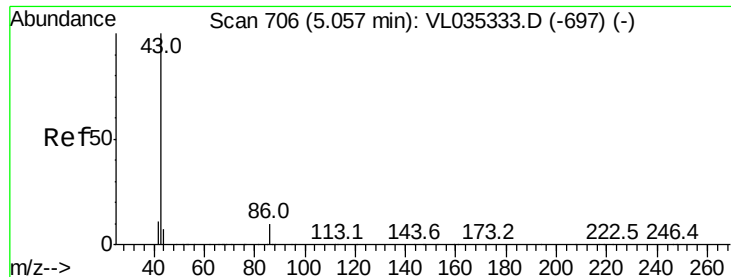
Tgt Ion: 41 Resp: 1121423
 Ion Ratio Lower Upper
 41 100
 76 30.0 23.8 35.6
 39 78.2 65.0 97.6



#22
 trans-1,2-Dichloroethene
 Concen: 10.581 ppbv
 RT: 4.86 min Scan# 646
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

Tgt Ion: 96 Resp: 694175
 Ion Ratio Lower Upper
 96 100
 61 185.5 138.5 207.7
 98 65.3 54.3 81.5





#23

Vinyl Acetate

Concen: 11.875 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2068356

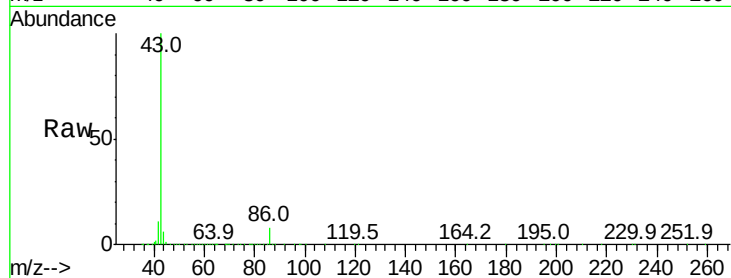
Ion Ratio Lower Upper

43 100

86 8.3 6.9 10.3

42 11.4 8.8 13.2

44 5.7 5.0 7.6

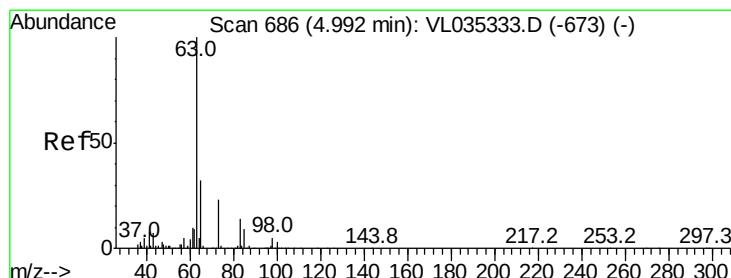
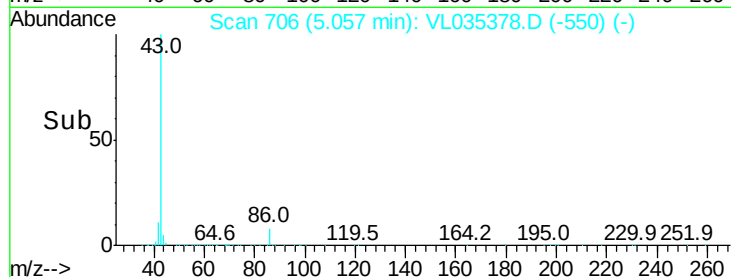
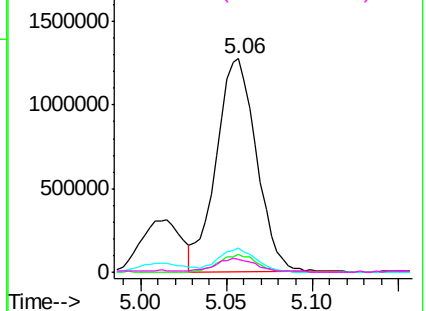


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.342 ppbv

RT: 4.99 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

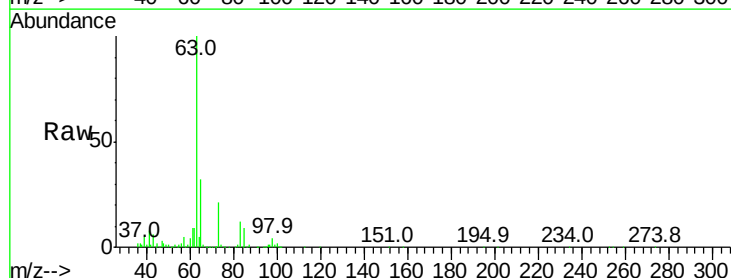
Tgt Ion: 63 Resp: 1692820

Ion Ratio Lower Upper

63 100

98 4.3 2.5 7.5

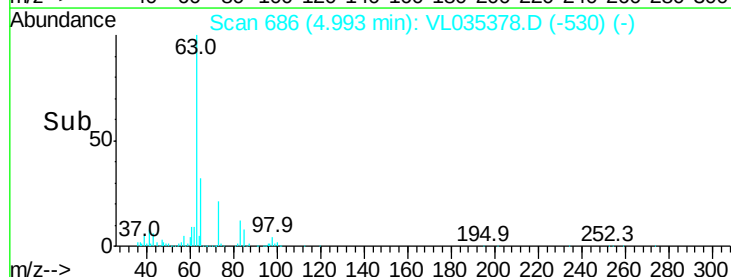
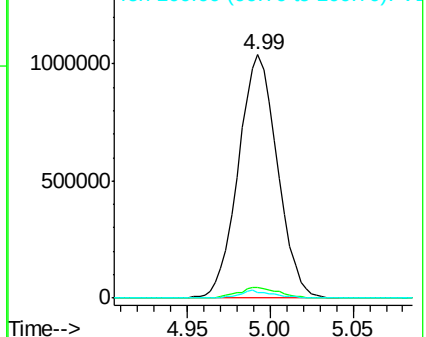
100 2.6 1.4 4.2

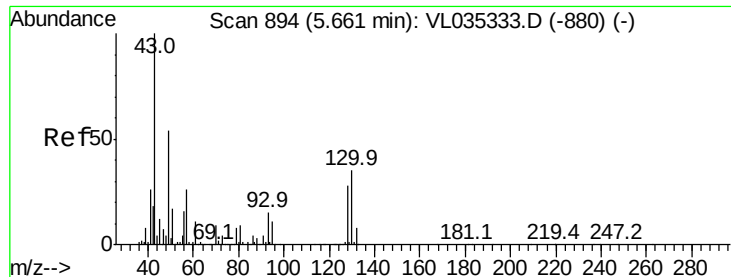


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.687 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

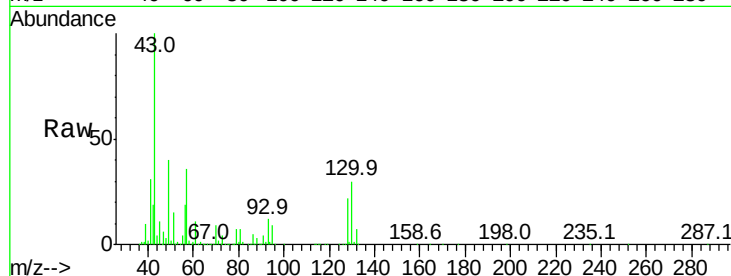
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2949741

Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.5	12.7
61	9.7	8.1	12.1
70	8.0	6.5	9.7

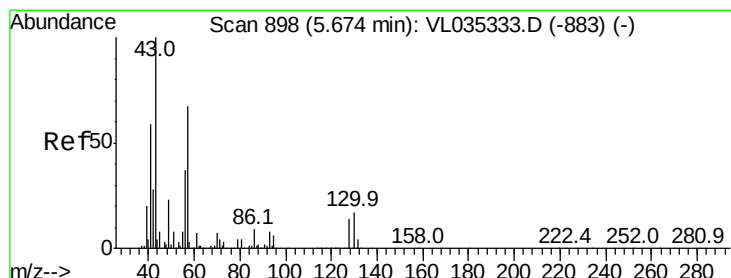
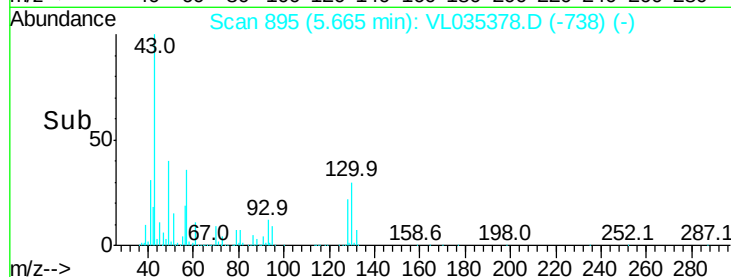


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.817 ppbv

RT: 5.68 min Scan# 899

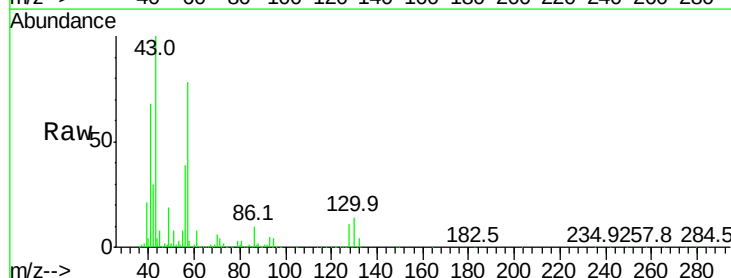
Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Tgt Ion: 57 Resp: 1294997

Ion	Ratio	Lower	Upper
57	100		
41	95.3	75.2	112.8
43	228.6	180.6	270.8
56	55.0	43.0	64.6

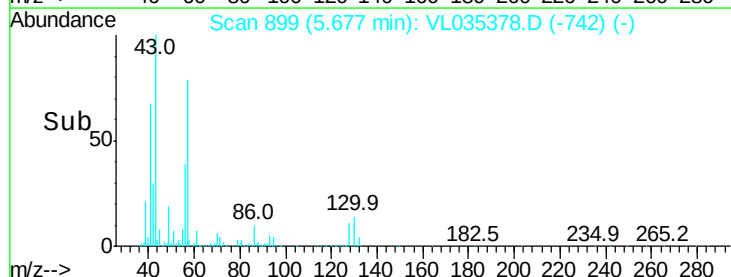


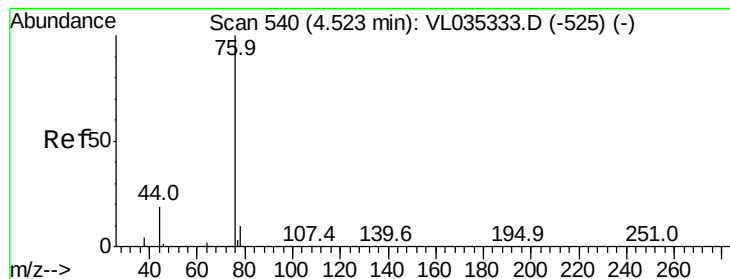
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.932 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

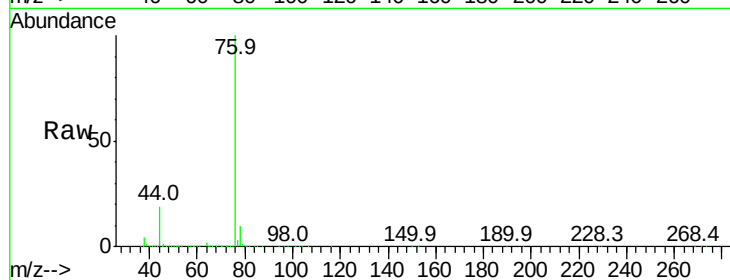
Tgt Ion: 76 Resp: 1830216

Ion Ratio Lower Upper

76 100

44 18.1 15.4 23.2

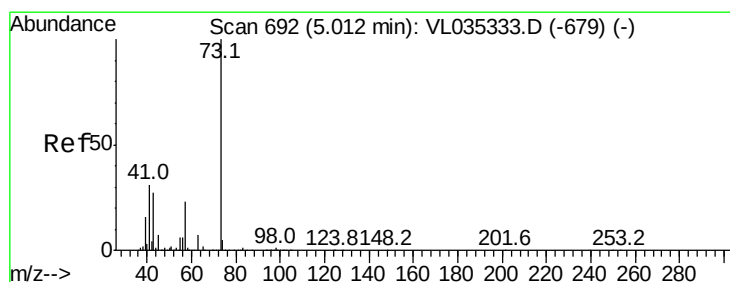
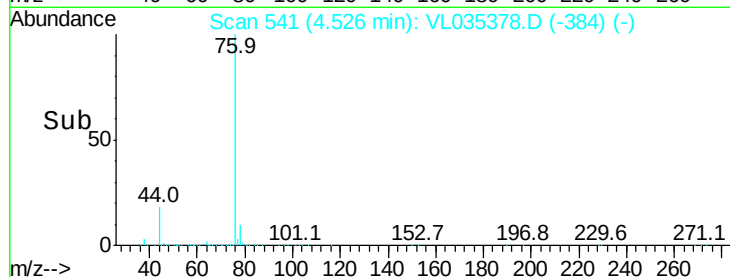
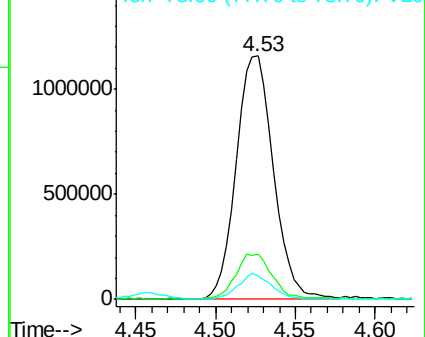
78 9.6 7.7 11.5



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.588 ppbv

RT: 5.01 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL035378.D

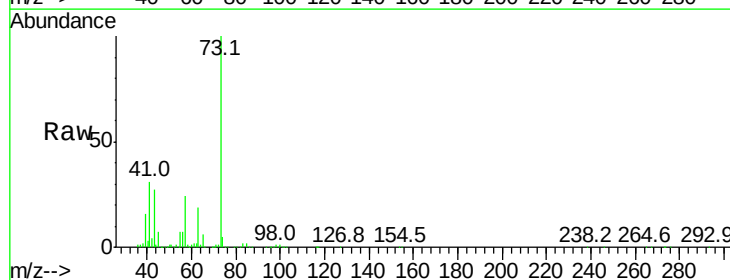
Acq: 11 Aug 2020 7:59

Tgt Ion: 73 Resp: 2017266

Ion Ratio Lower Upper

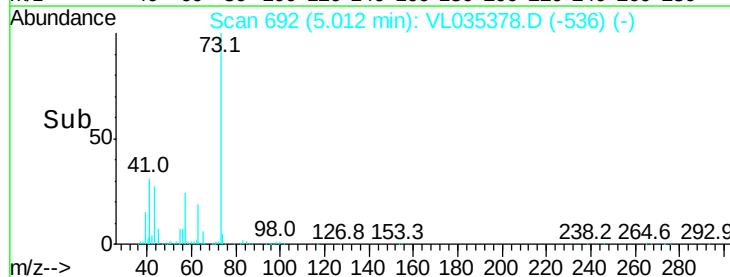
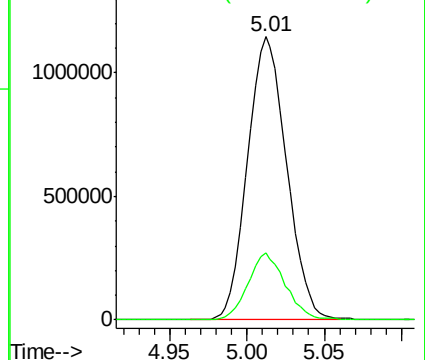
73 100

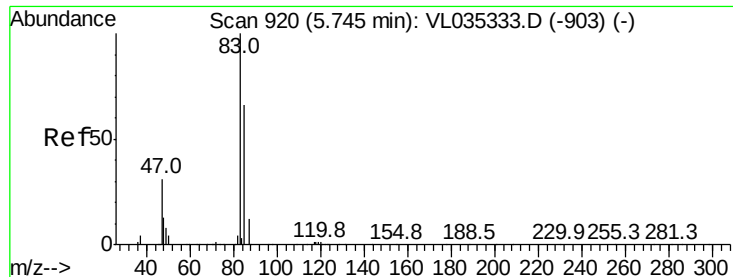
57 22.8 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

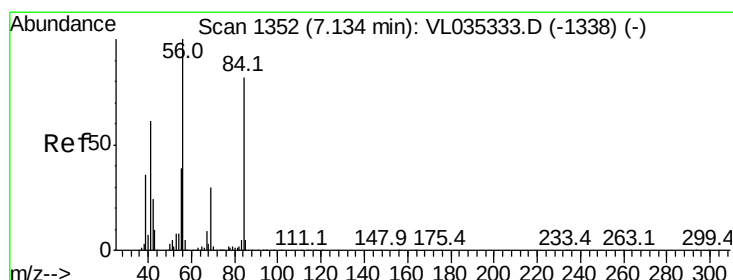
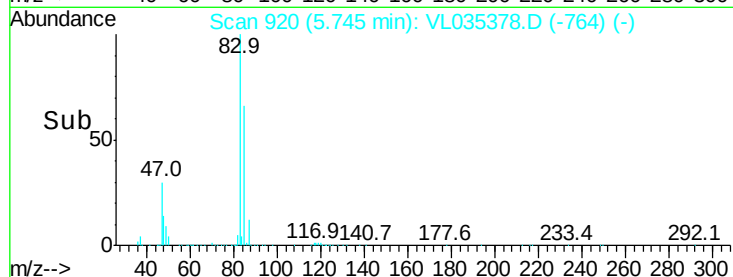
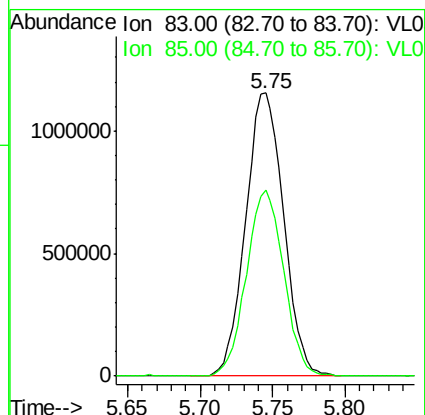
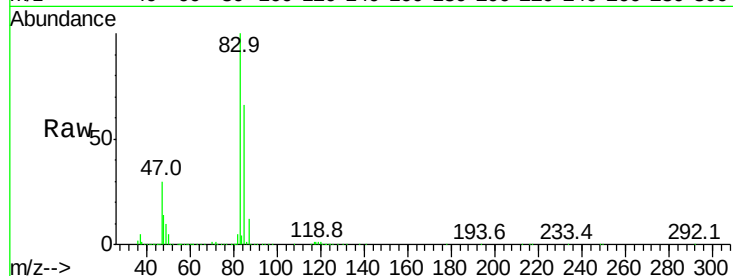




#29
Chloroform
Concen: 10.213 ppbv
RT: 5.75 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL035378.D
Acq: 11 Aug 2020 7:59

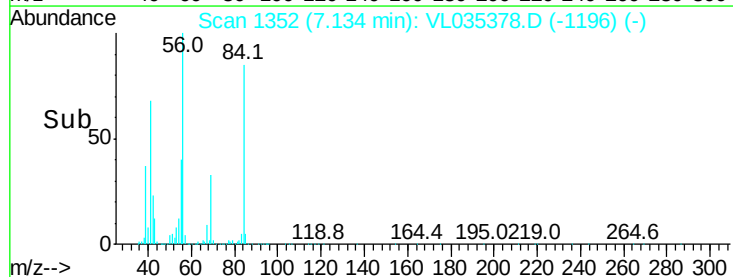
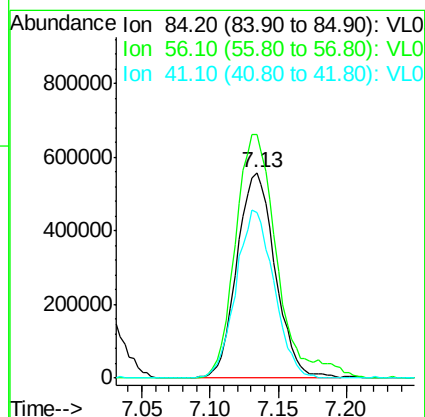
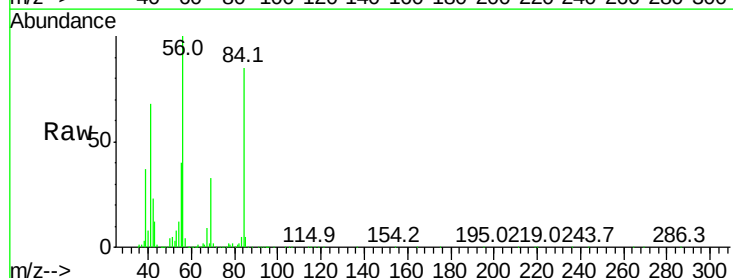
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

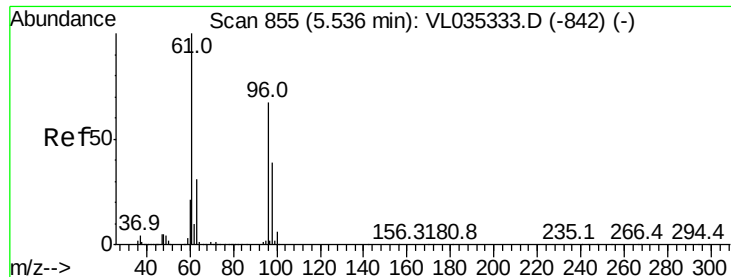
Tgt Ion: 83 Resp: 2107904
Ion Ratio Lower Upper
83 100
85 65.8 52.9 79.3



#30
Cyclohexane
Concen: 11.989 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.00 min
Lab File: VL035378.D
Acq: 11 Aug 2020 7:59

Tgt Ion: 84 Resp: 1088393
Ion Ratio Lower Upper
84 100
56 129.6 104.7 157.1
41 81.5 64.2 96.2



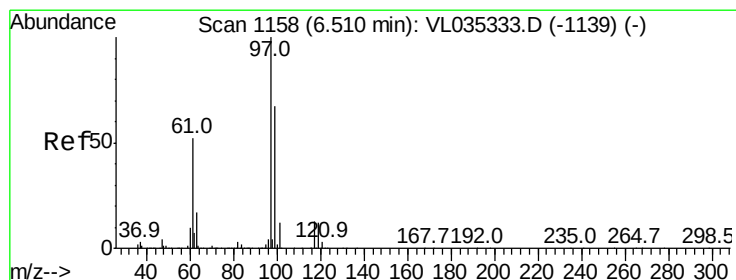
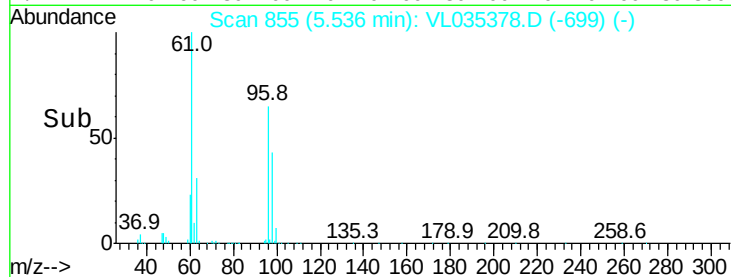
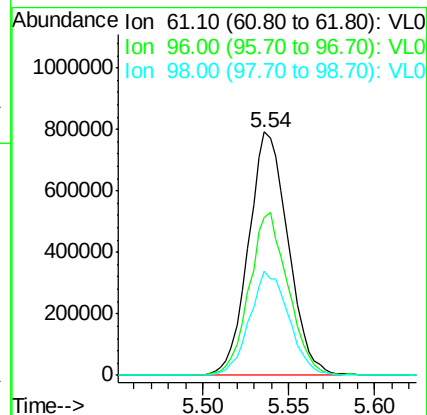
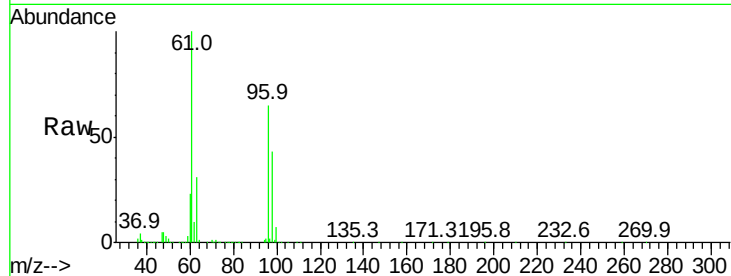


#31

cis-1,2-Dichloroethene
 Concen: 11.872 ppbv
 RT: 5.54 min Scan# 855
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

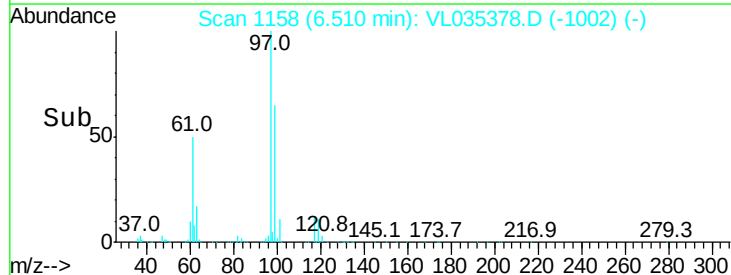
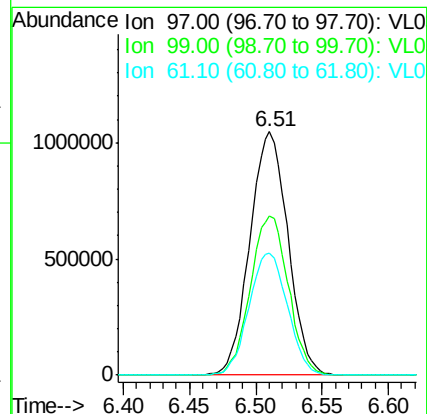
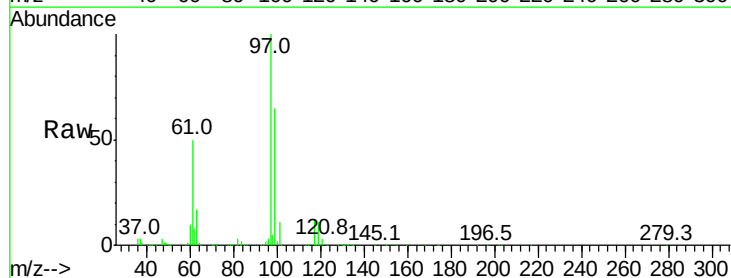
Tgt Ion: 61 Resp: 1263562
 Ion Ratio Lower Upper
 61 100
 96 64.7 53.6 80.4
 98 42.8 31.0 46.4

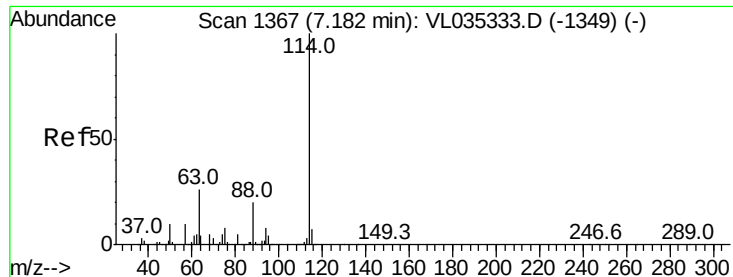


#32

1,1,1-Trichloroethane
 Concen: 9.666 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

Tgt Ion: 97 Resp: 2096962
 Ion Ratio Lower Upper
 97 100
 99 65.3 52.2 78.4
 61 50.9 40.9 61.3

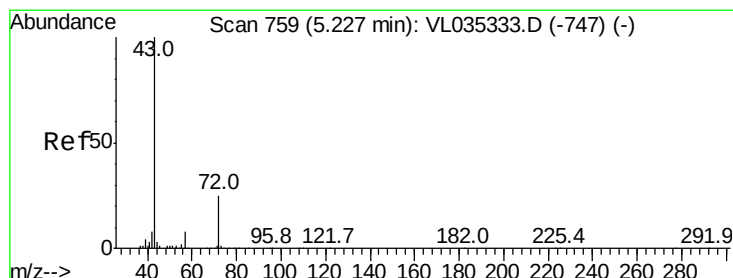
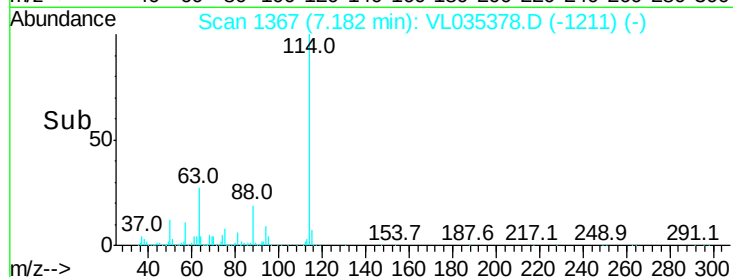
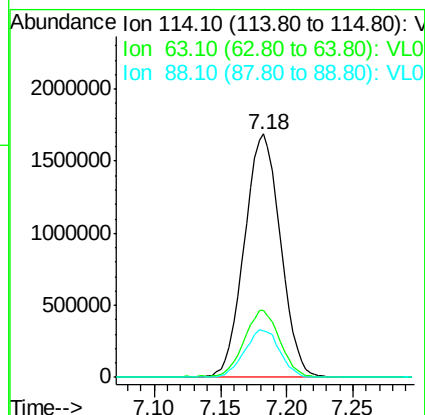
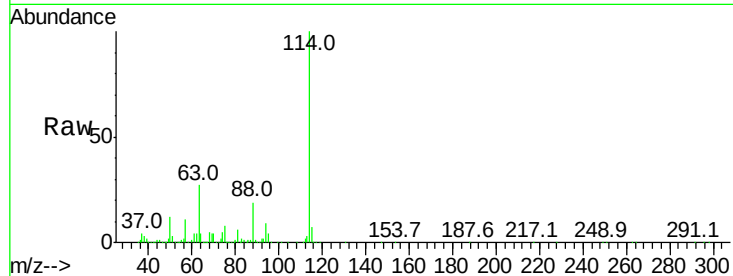




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

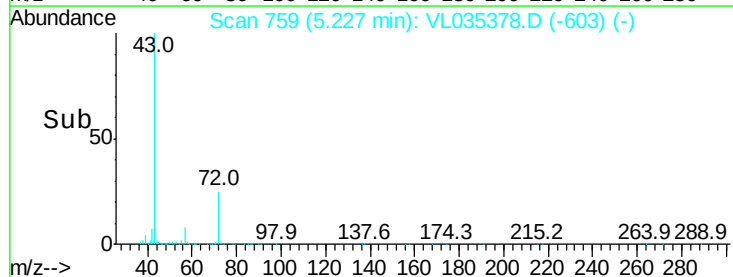
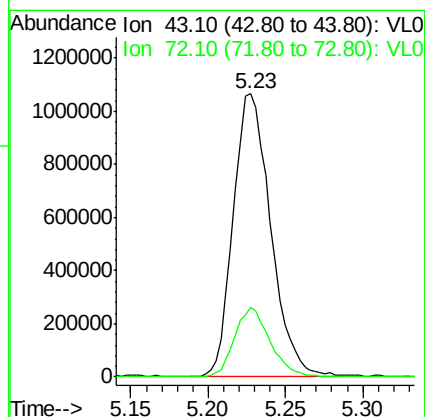
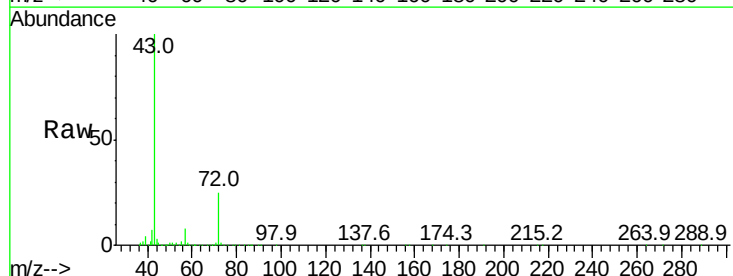
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

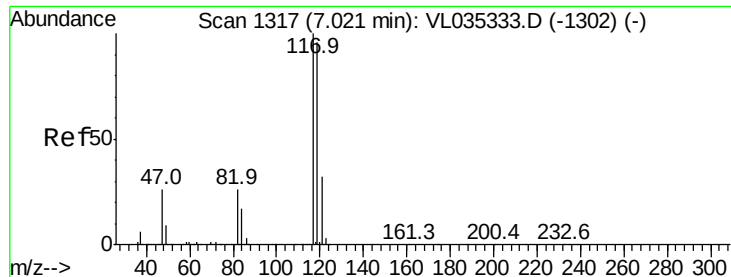
Tgt Ion:114 Resp: 3201751
 Ion Ratio Lower Upper
 114 100
 63 27.6 21.3 31.9
 88 19.0 15.3 22.9



#34
 2-Butanone
 Concen: 11.353 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

Tgt Ion: 43 Resp: 1789748
 Ion Ratio Lower Upper
 43 100
 72 23.3 18.9 28.3





#35

Carbon Tetrachloride

Concen: 10.137 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

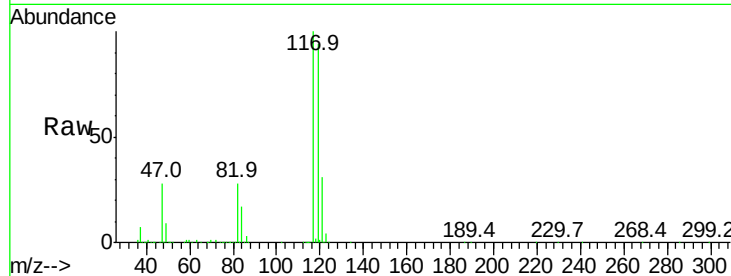
Tgt Ion:117 Resp: 2233446

Ion Ratio Lower Upper

117 100

119 93.6 77.0 115.6

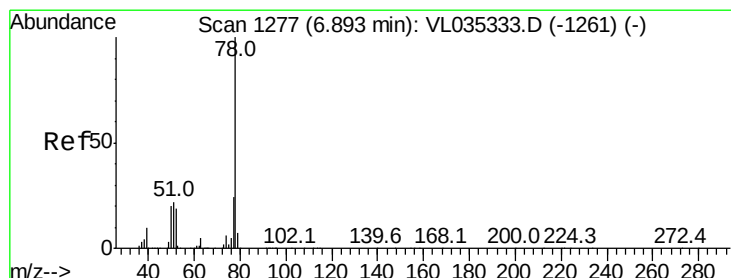
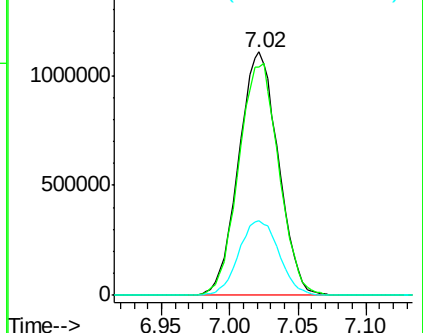
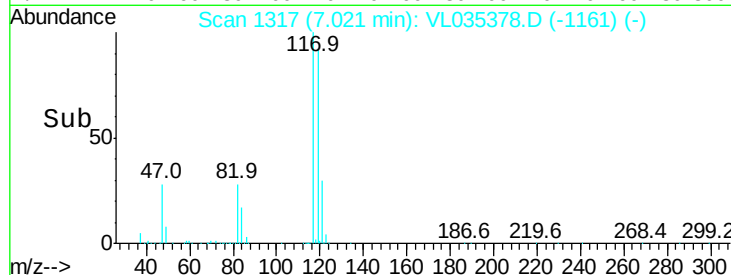
121 30.5 26.0 39.0



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: 11.724 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

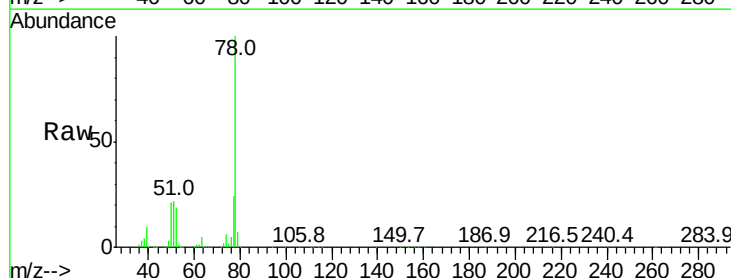
Tgt Ion: 78 Resp: 2534774

Ion Ratio Lower Upper

78 100

77 24.3 19.3 28.9

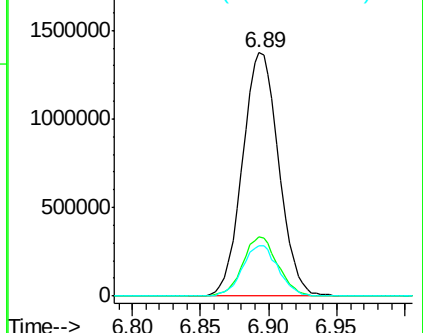
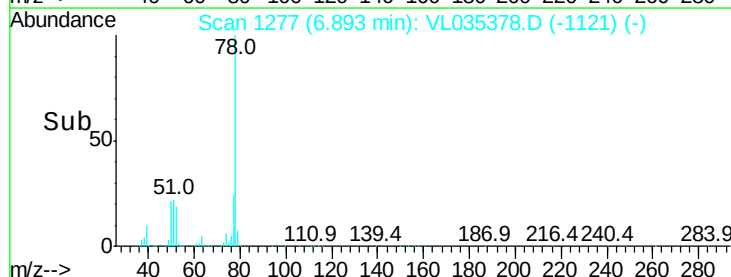
50 20.6 16.3 24.5

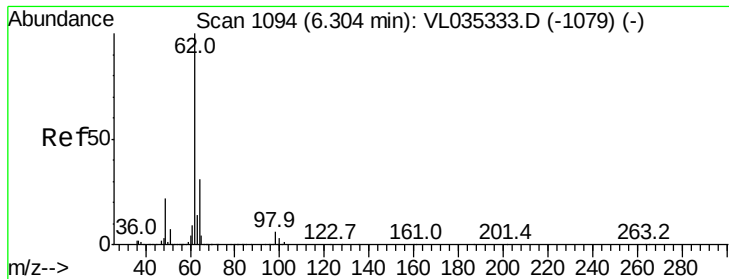


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

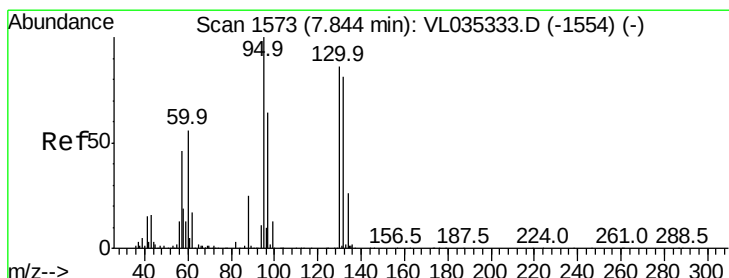
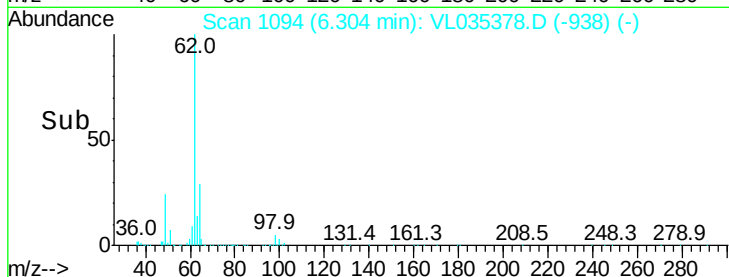
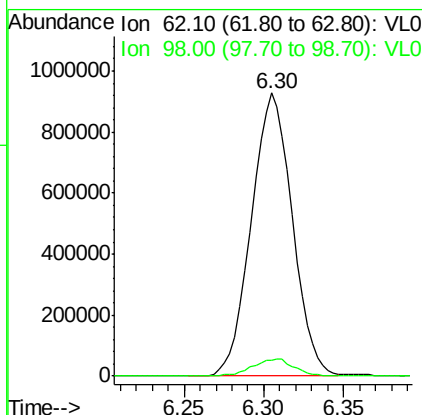
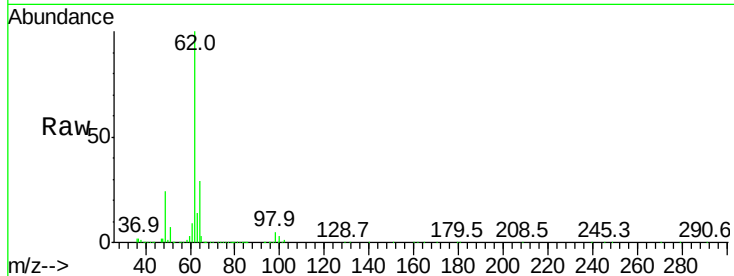




#37
 1,2-Dichloroethane
 Concen: 10.801 ppbv
 RT: 6.30 min Scan# 1094
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

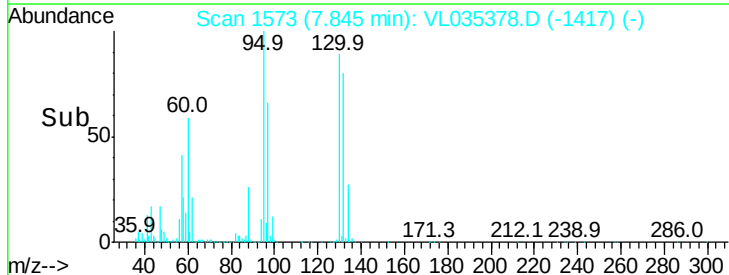
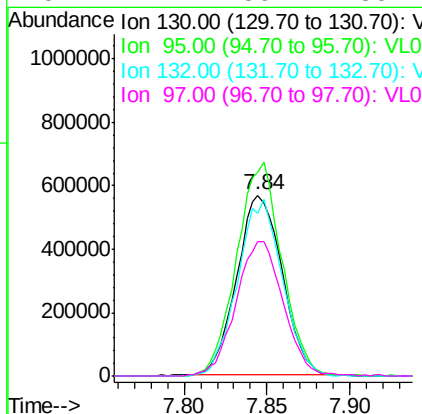
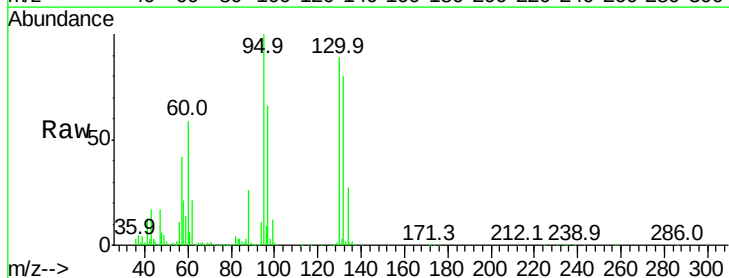
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

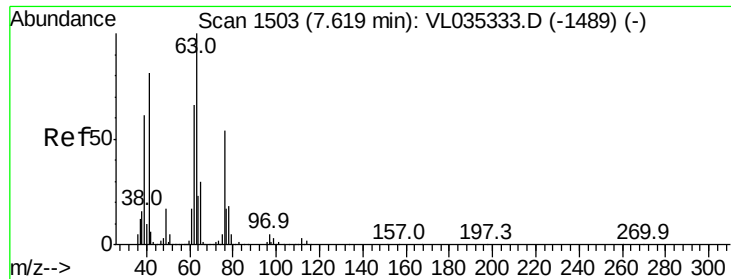
Tgt Ion: 62 Resp: 1631370
 Ion Ratio Lower Upper
 62 100
 98 6.1 4.6 7.0



#38
 Trichloroethene
 Concen: 10.874 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

Tgt Ion: 130 Resp: 1084505
 Ion Ratio Lower Upper
 130 100
 95 112.7 93.4 140.2
 132 90.1 76.1 114.1
 97 74.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 11.174 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

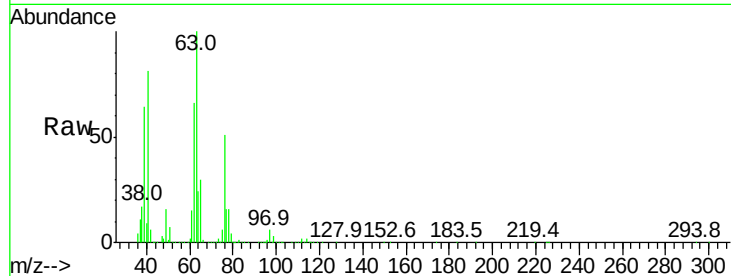
Tgt Ion: 63 Resp: 978008

Ion Ratio Lower Upper

63 100

41 80.9 64.4 96.6

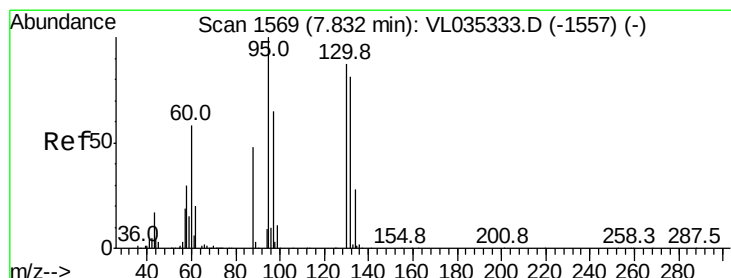
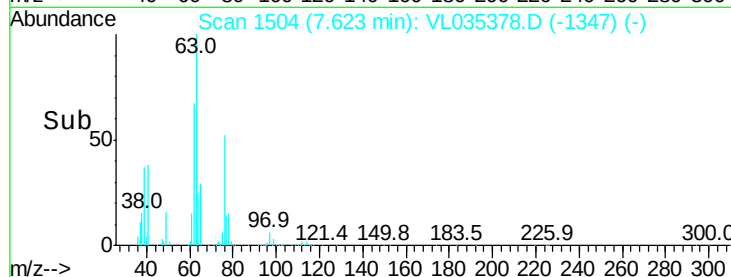
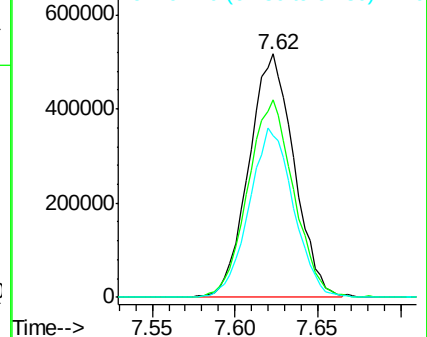
62 66.4 52.6 78.8



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: 11.264 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Tgt Ion: 88 Resp: 422210

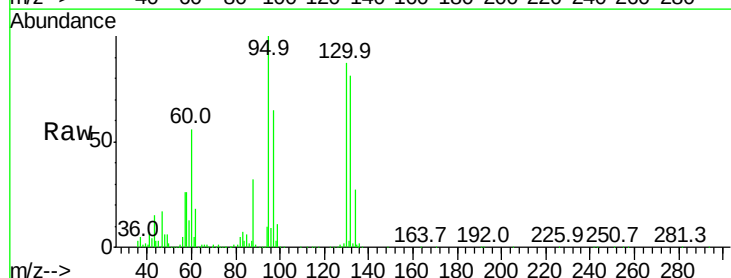
Ion Ratio Lower Upper

88 100

58 125.4 96.7 145.1

43 0.0 190.7 286.1#

57 0.0 834.1 1251.1#

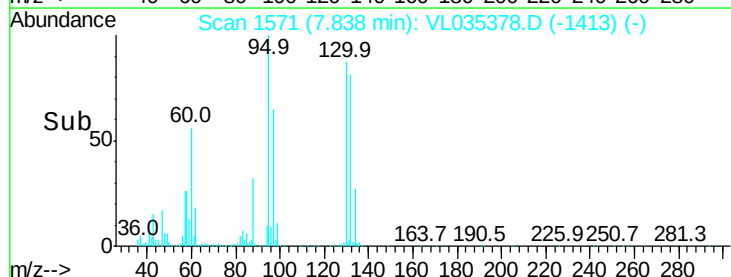
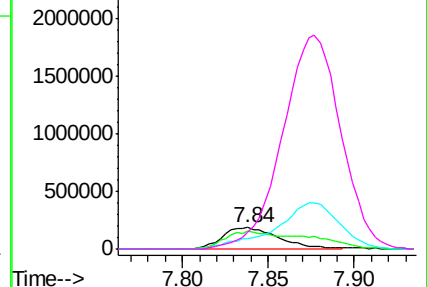


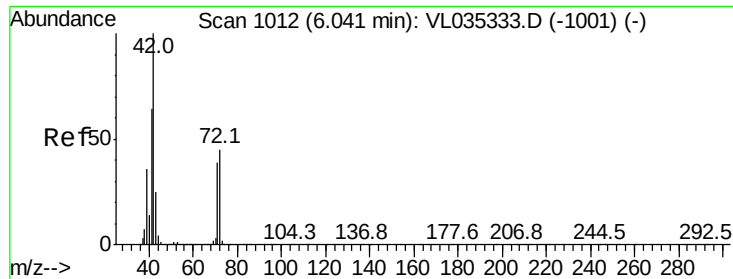
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 12.460 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

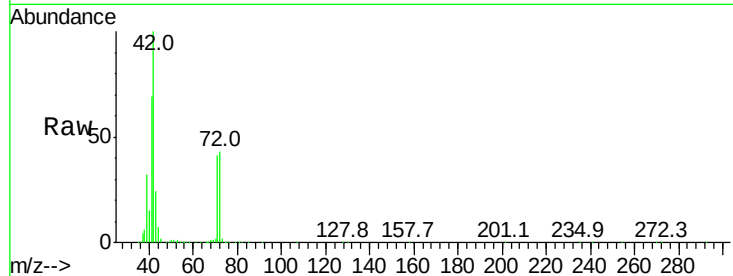
Tgt Ion: 42 Resp: 963993

Ion Ratio Lower Upper

42 100

72 41.9 33.6 50.4

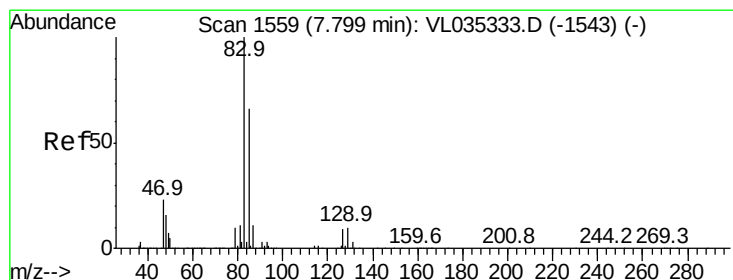
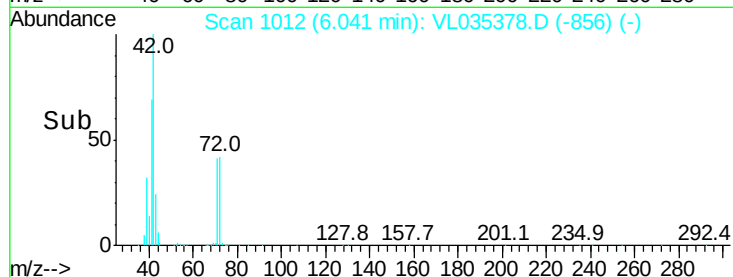
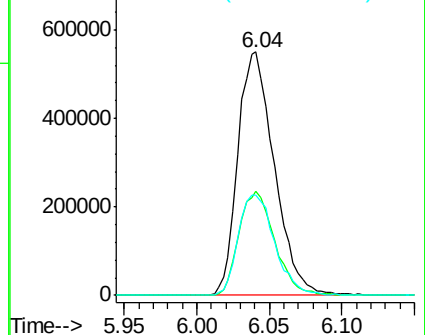
71 41.7 33.1 49.7



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: 10.993 ppbv

RT: 7.80 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

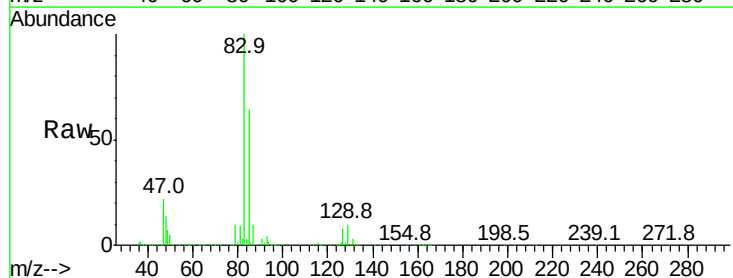
Tgt Ion: 83 Resp: 2229733

Ion Ratio Lower Upper

83 100

85 64.0 53.1 79.7

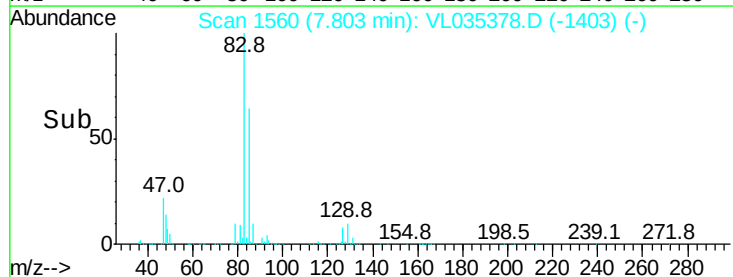
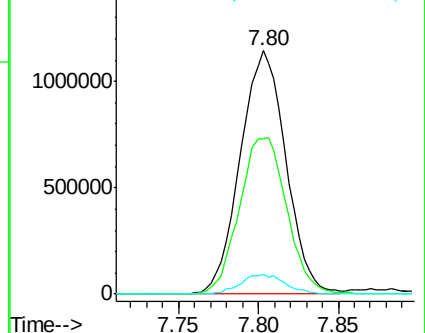
127 8.1 6.8 10.2

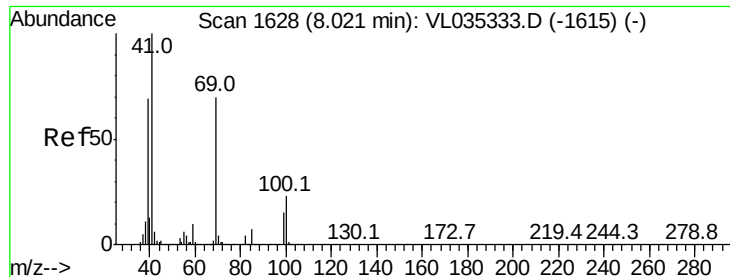


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 12.566 ppbv

RT: 8.02 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

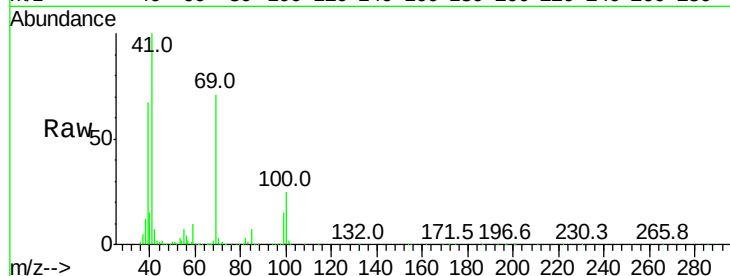
Tgt Ion: 69 Resp: 1142979

Ion Ratio Lower Upper

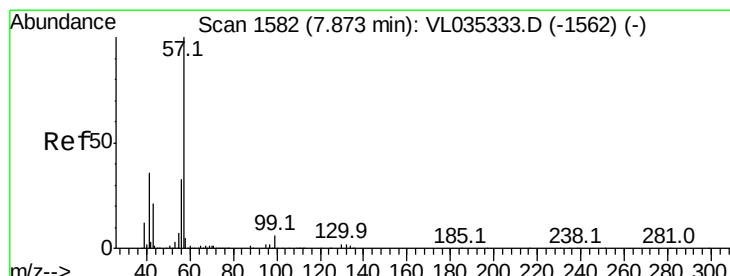
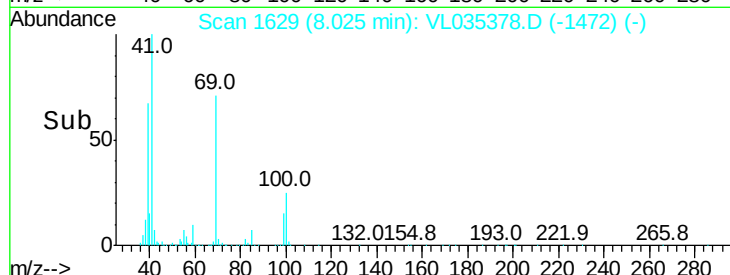
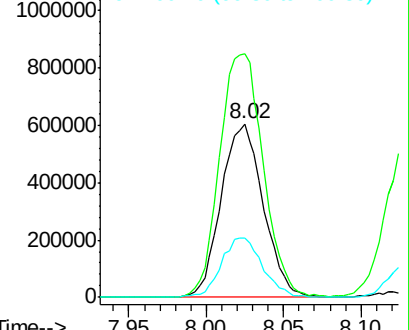
69 100

41 145.8 115.8 173.6

100 33.7 26.7 40.1



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 11.385 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

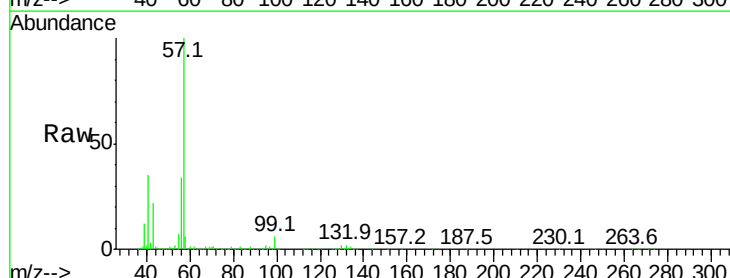
Tgt Ion: 57 Resp: 4372891

Ion Ratio Lower Upper

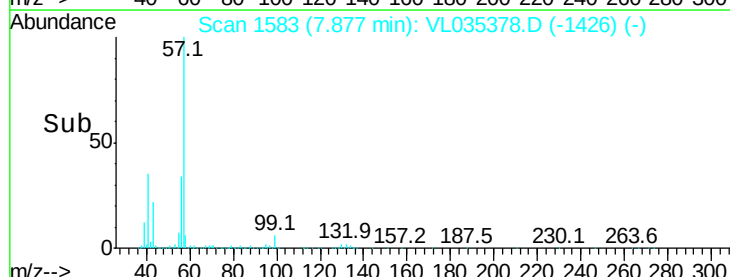
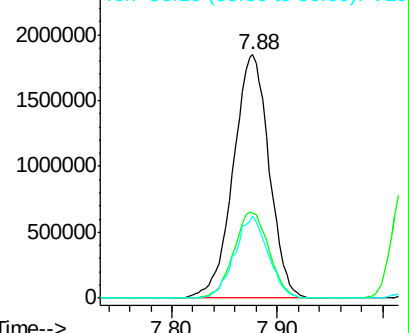
57 100

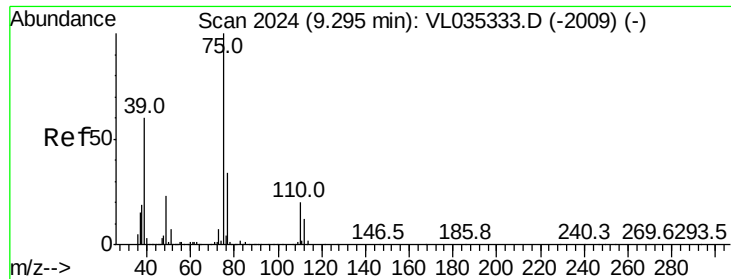
41 34.9 27.9 41.9

56 31.5 25.4 38.0



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

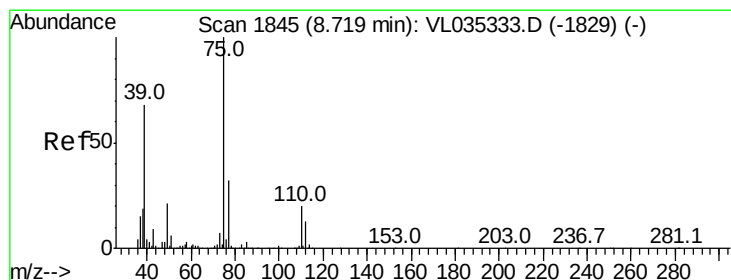
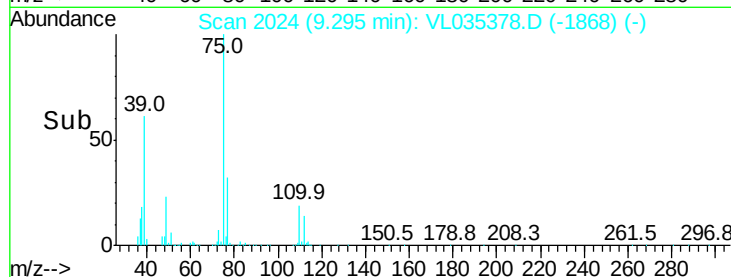
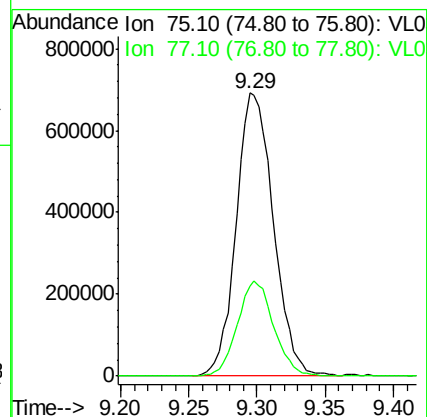
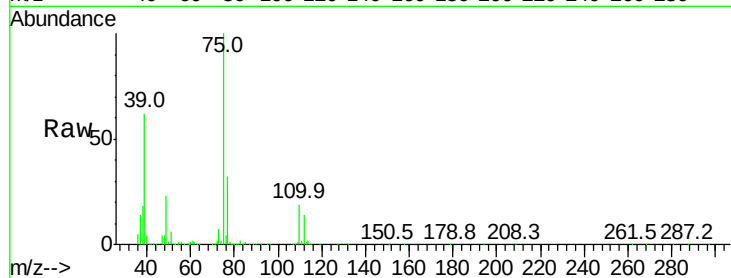




#45
t-1,3-Dichloropropene
Concen: 13.911 ppbv
RT: 9.29 min Scan# 2024
Delta R.T. 0.00 min
Lab File: VL035378.D
Acq: 11 Aug 2020 7:59

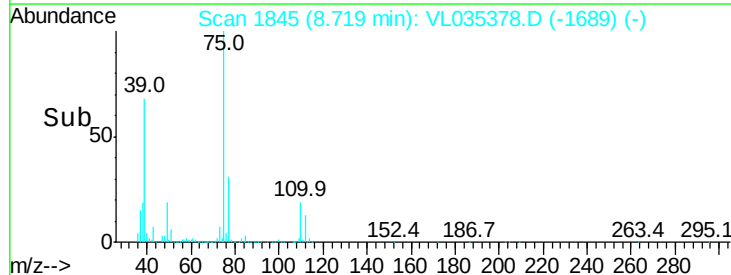
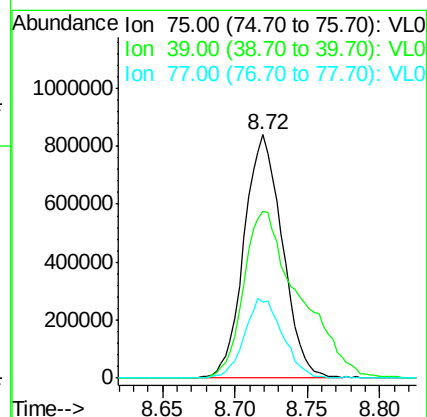
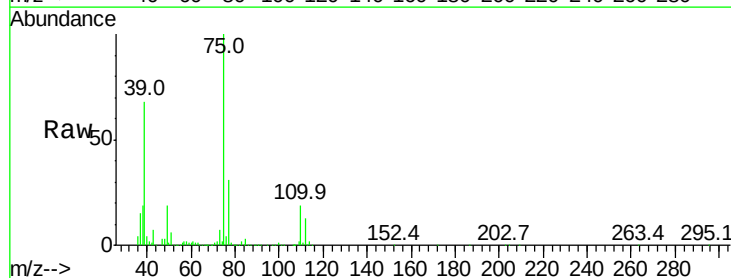
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

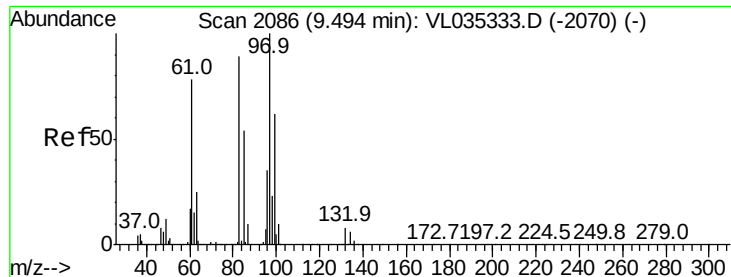
Tgt Ion: 75 Resp: 1312531
Ion Ratio Lower Upper
75 100
77 32.0 27.0 40.6



#46
cis-1,3-Dichloropropene
Concen: 13.539 ppbv
RT: 8.72 min Scan# 1845
Delta R.T. 0.00 min
Lab File: VL035378.D
Acq: 11 Aug 2020 7:59

Tgt Ion: 75 Resp: 1542761
Ion Ratio Lower Upper
75 100
39 68.2 54.2 81.2
77 31.3 25.4 38.2



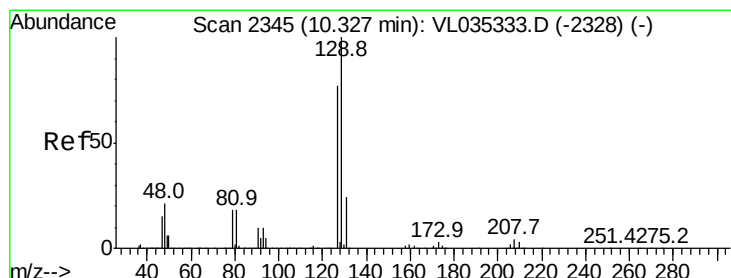
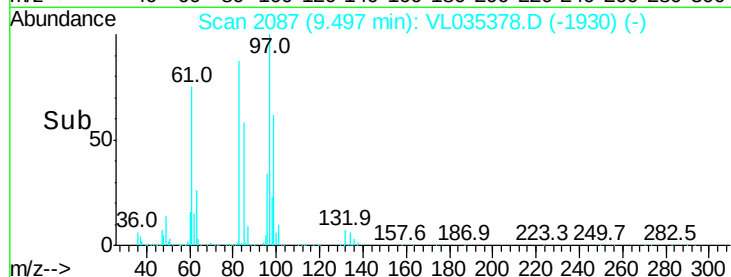
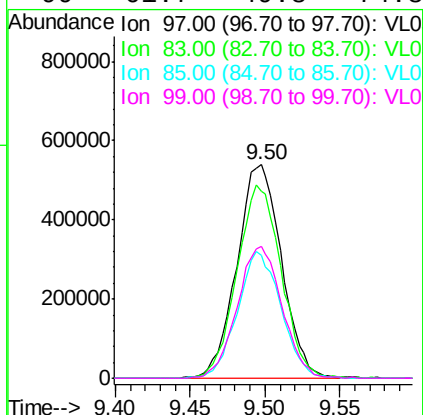
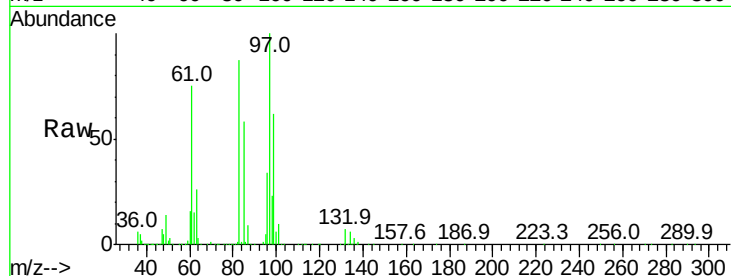


#47
 1,1,2-Trichloroethane
 Concen: 10.558 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 97 Resp: 1111066

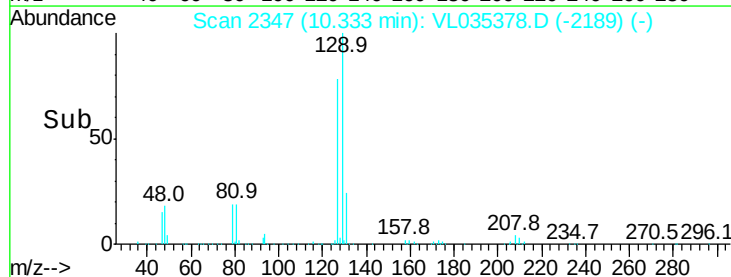
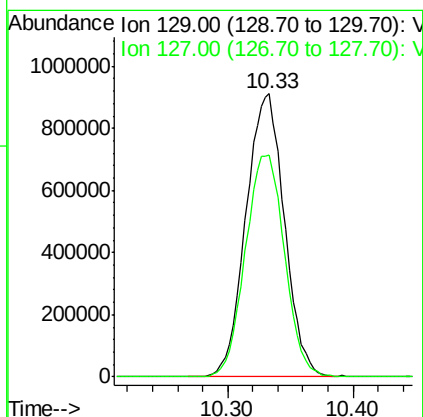
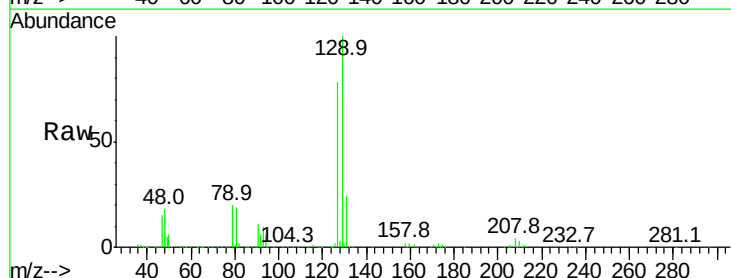
Ion	Ratio	Lower	Upper
97	100		
83	87.4	71.3	106.9
85	57.5	43.3	64.9
99	61.7	49.8	74.8

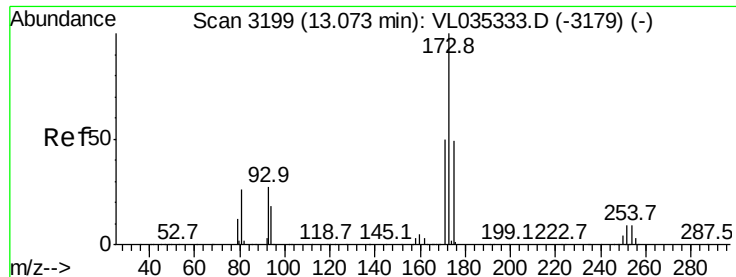


#48
 Dibromochloromethane
 Concen: 11.264 ppbv
 RT: 10.33 min Scan# 2347
 Delta R.T. 0.01 min
 Lab File: VL035378.D
 Acq: 11 Aug 2020 7:59

Tgt Ion: 129 Resp: 1941792

Ion	Ratio	Lower	Upper
129	100		
127	80.1	39.1	117.2





#49

Bromoform

Concen: 11.674 ppbv

RT: 13.08 min Scan# 3200

Delta R.T. 0.00 min

Lab File: VL035378.D

Acq: 11 Aug 2020 7:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

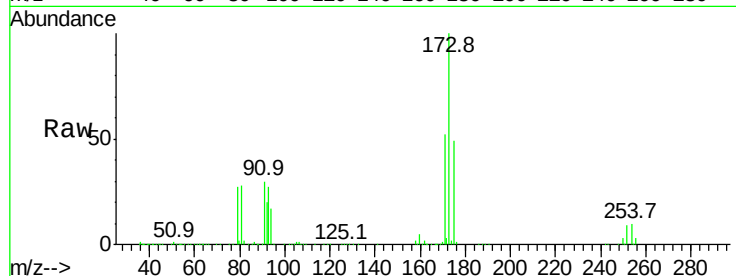
Tgt Ion:173 Resp: 1833704

Ion Ratio Lower Upper

173 100

175 49.3 39.3 58.9

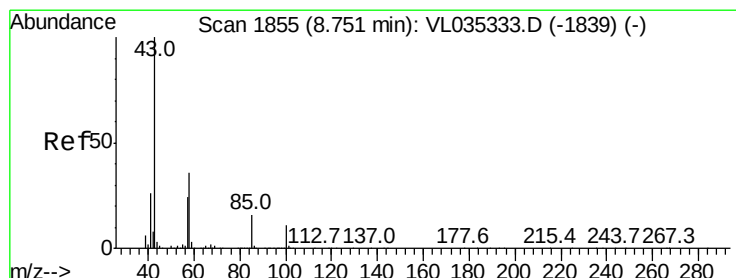
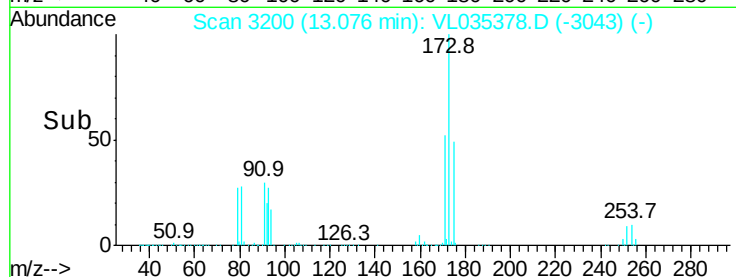
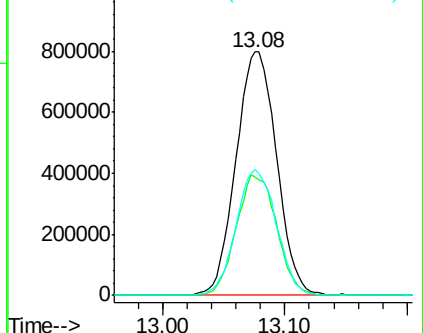
171 51.3 41.2 61.8



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: 11.375 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VL035378.D

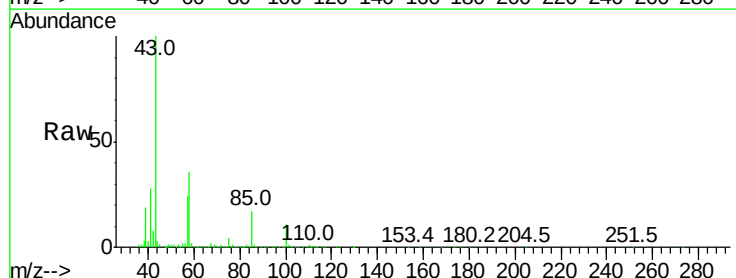
Acq: 11 Aug 2020 7:59

Tgt Ion: 43 Resp: 2737933

Ion Ratio Lower Upper

43 100

58 36.7 29.2 43.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

