

Data File : VL036670.D

Acq On : 3 Apr 2021 7:43

Operator : SY/AP

Sample : M1853-03

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-03

Quant Time: Apr 04 18:39:01 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

QLast Update : Thu Mar 25 09:42:40 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1092669	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	2724308	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	2467763	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1930432	9.81	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.03	85	23839	0.134	ppbv	96
3) Chlorodifluoromethane	2.97	51	897315	4.395	ppbv #	89
4) Chloromethane	3.12	50	44696	0.620	ppbv	97
6) Bromomethane	3.45	94	1339	0.033	ppbv	98
9) Propene	3.19	41	279178	4.290	ppbv	90
10) Heptane	8.10	43	288639	1.741	ppbv	94
11) Trichlorofluoromethane	3.92	101	16639	0.092	ppbv	97
13) Ethanol	3.60	45	8277939	1068.089	ppbv	93
15) Acetone	3.85	43	5311160	49.386	ppbv #	70
16) 1,3-Butadiene	3.29	39	45852	0.612	ppbv #	13
17) tert-Butyl alcohol	4.29	59	23059	0.246	ppbv #	72
19) Isopropyl Alcohol	3.96	45	9290314	157.038	ppbv #	90
20) Methylene Chloride	4.32	84	140033	2.781	ppbv	95
21) Allyl Chloride	4.35	41	148073	1.727	ppbv #	44
23) Vinyl Acetate	5.03	43	1217487	6.618	ppbv #	1
25) Ethyl Acetate	5.66	43	572941	2.241	ppbv #	80
26) Hexane	5.66	57	784598	6.613	ppbv #	48
27) Carbon Disulfide	4.52	76	9112	0.078	ppbv #	63
29) Chloroform	5.72	83	7750	0.041	ppbv	89
30) Cyclohexane	7.10	84	93726	0.974	ppbv	96
34) 2-Butanone	5.22	43	267312	2.010	ppbv	100
36) Benzene	6.86	78	224794	0.895	ppbv	97
39) 1,2-Dichloropropane	7.20	63	12190	0.120	ppbv #	59
41) Tetrahydrofuran	6.02	42	370323	6.040	ppbv	98
42) Bromodichloromethane	7.76	83	16400	0.082	ppbv #	32
44) 2,2,4-Trimethylpentane	7.84	57	4862627	10.996	ppbv	97
50) 4-Methyl-2-Pentanone	8.72	43	7864	0.041	ppbv #	1
51) 2-Hexanone	10.08	43	59527	0.613	ppbv #	57
53) Toluene	9.78	91	1450981	5.423	ppbv	100
58) Ethyl Benzene	12.68	91	158371	0.441	ppbv	97
59) m/p-Xylene	12.94	91	513653	1.640	ppbv	95
60) o-Xylene	13.66	91	239339	0.790	ppbv	98
61) Styrene	13.49	104	8489	0.056	ppbv #	26
62) Isopropylbenzene	14.63	105	60499	0.148	ppbv #	60
64) n-propylbenzene	15.53	120	11086	0.111	ppbv #	1
65) tert-Butylbenzene	16.73	119	50572	0.143	ppbv #	72
67) sec-Butylbenzene	17.57	105	84658	0.170	ppbv	96
71) 2-Chlorotoluene	15.73	91	12901	0.042	ppbv	69
72) 4-Ethyltoluene	15.81	105	91618	0.276	ppbv #	87
73) 1,3,5-Trimethylbenzene	15.97	105	119173	0.385	ppbv	90
74) 1,2,4-Trimethylbenzene	16.73	105	416764	1.258	ppbv #	69

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040221\
Quantitation Report (Not Reviewed)

Data File : VL036670.D
Acq On : 3 Apr 2021 7:43
Operator : SY/AP
Sample : M1853-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-03

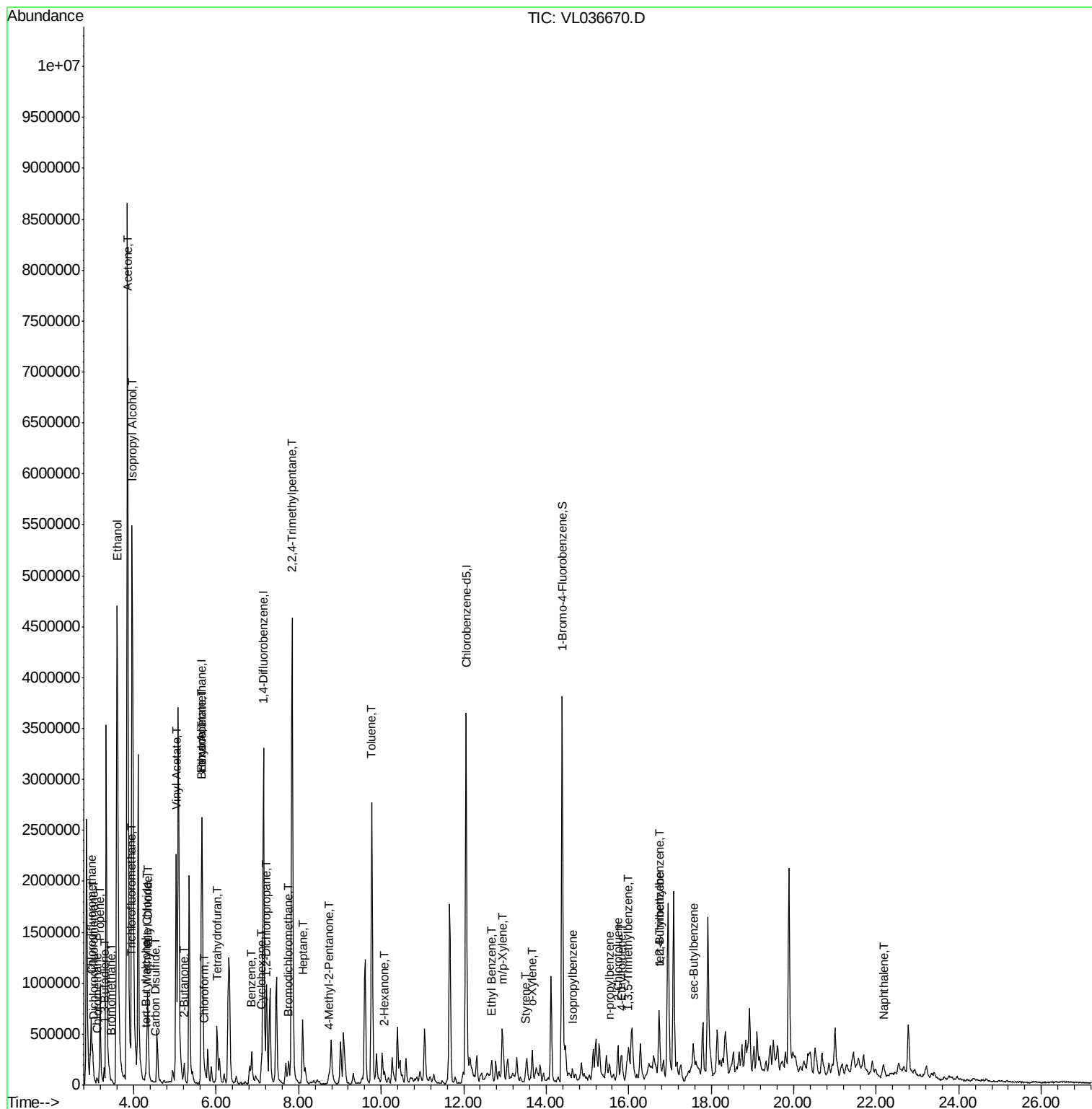
Quant Time: Apr 04 18:39:01 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration

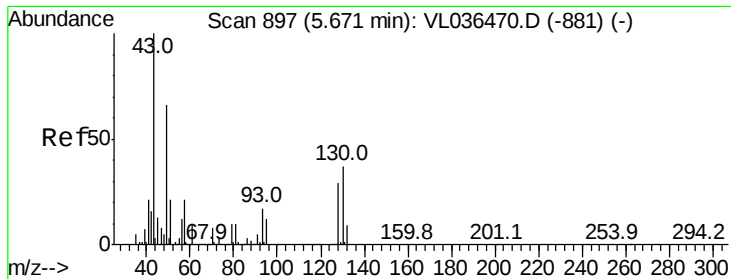
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Naphthalene	22.17	128	27868	0.144	ppbv	99

(#) = 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: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

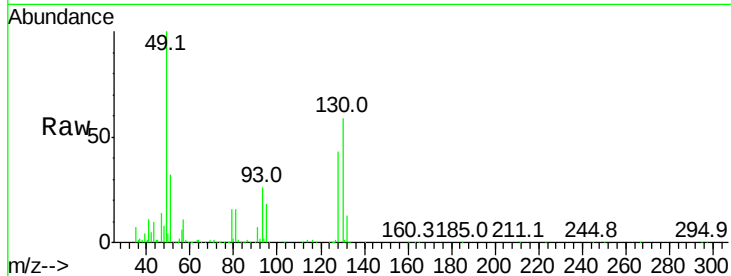
Tgt Ion: 49 Resp: 1092669

Ion Ratio Lower Upper

49 100

128 47.4 23.5 70.6

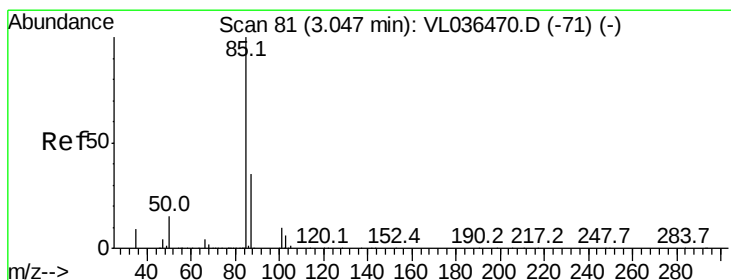
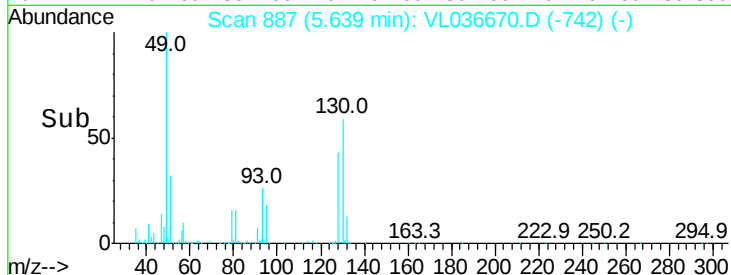
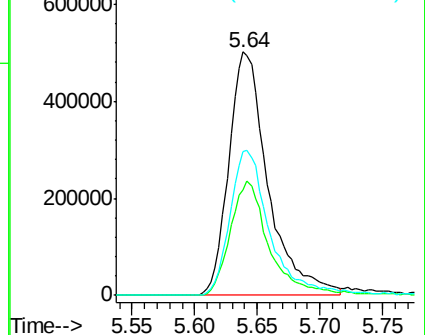
130 61.9 29.1 87.4



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: 0.134 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL036670.D

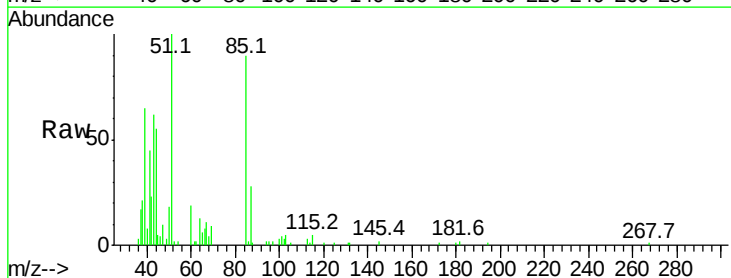
Acq: 3 Apr 2021 7:43

Tgt Ion: 85 Resp: 23839

Ion Ratio Lower Upper

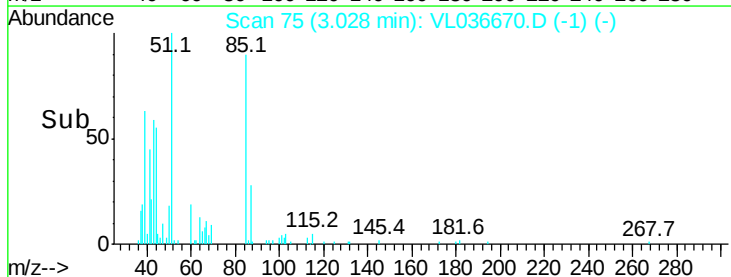
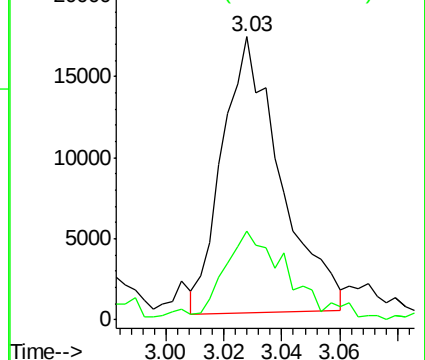
85 100

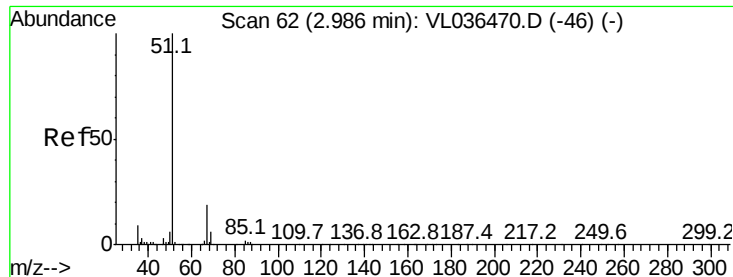
87 32.8 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

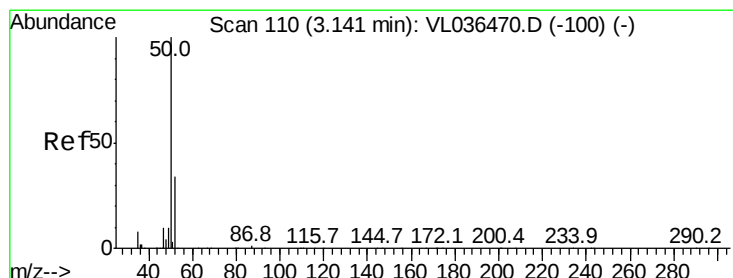
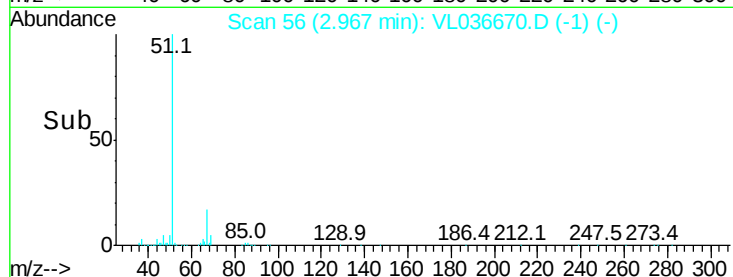
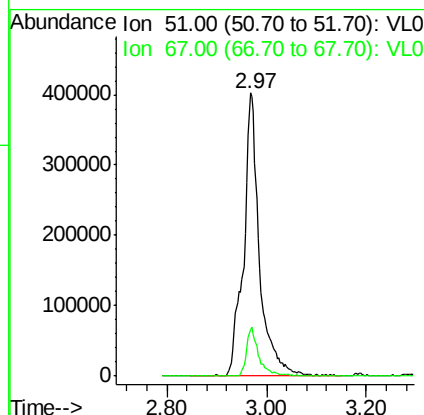
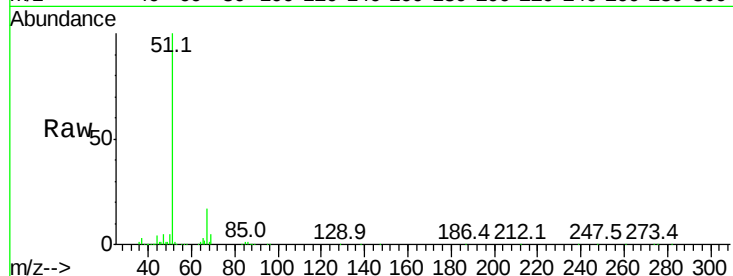




#3
 Chlorodifluoromethane
 Concen: 4.395 ppbv
 RT: 2.97 min Scan# 56
 Delta R.T. -0.02 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

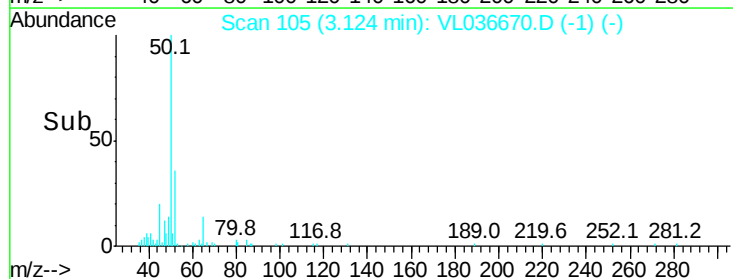
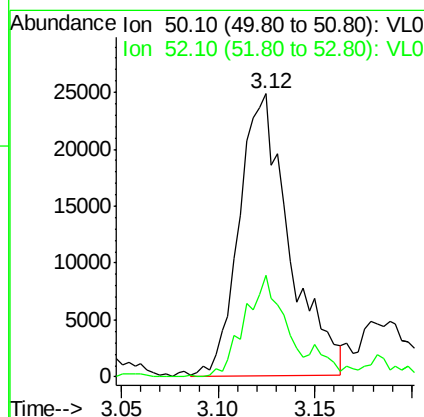
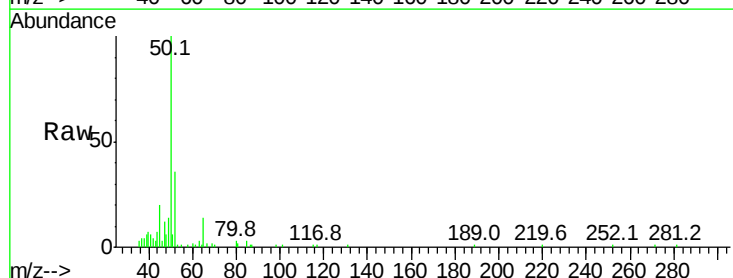
Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-03

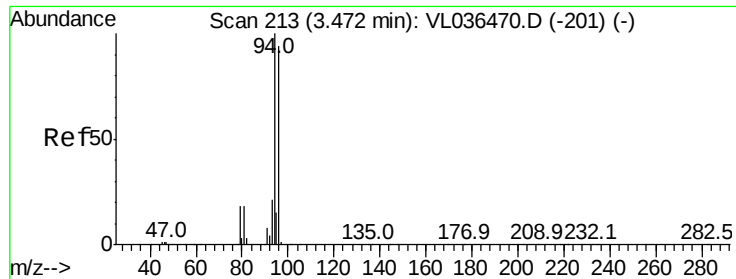
Tgt Ion: 51 Resp: 897315
 Ion Ratio Lower Upper
 51 100
 67 13.5 14.7 22.1#



#4
 Chloromethane
 Concen: 0.620 ppbv
 RT: 3.12 min Scan# 105
 Delta R.T. -0.02 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

Tgt Ion: 50 Resp: 44696
 Ion Ratio Lower Upper
 50 100
 52 35.7 27.0 40.6





#6

Bromomethane

Concen: 0.033 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.02 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

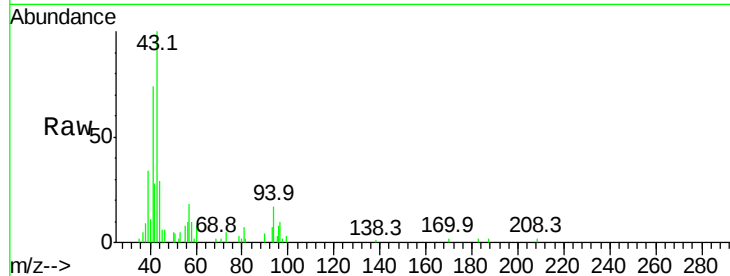
SOFF-SG-03

Tgt Ion: 94 Resp: 1339

Ion Ratio Lower Upper

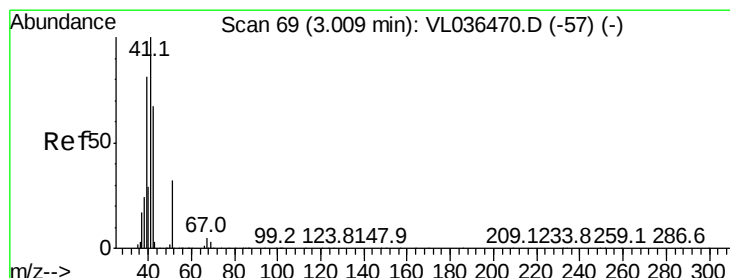
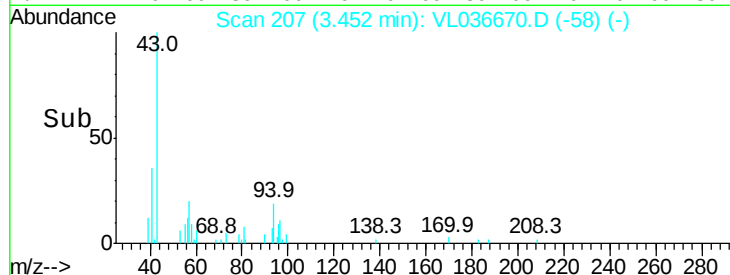
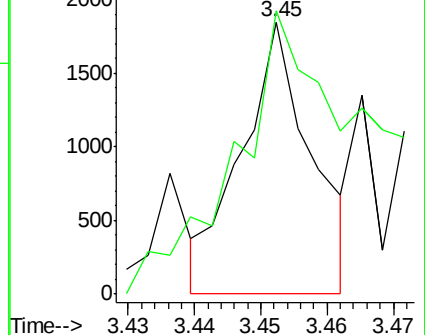
94 100

96 95.2 74.9 112.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#9

Propene

Concen: 4.290 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.18 min

Lab File: VL036670.D

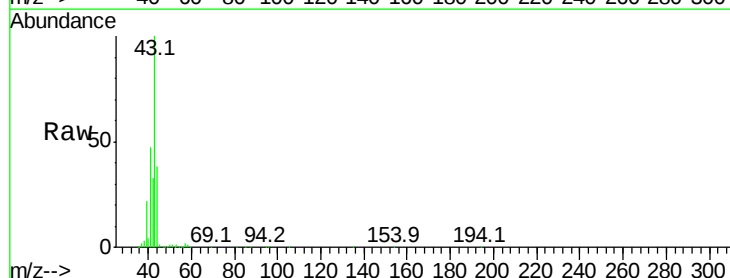
Acq: 3 Apr 2021 7:43

Tgt Ion: 41 Resp: 279178

Ion Ratio Lower Upper

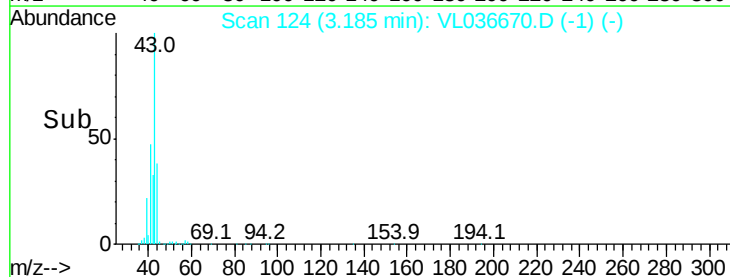
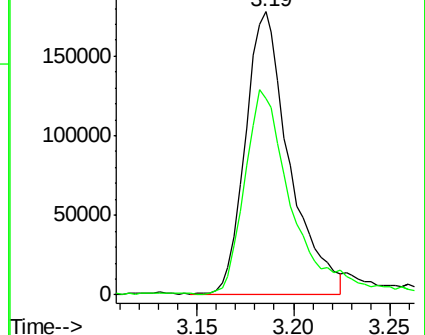
41 100

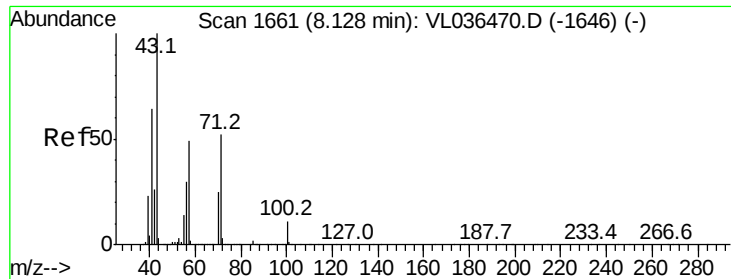
42 79.4 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

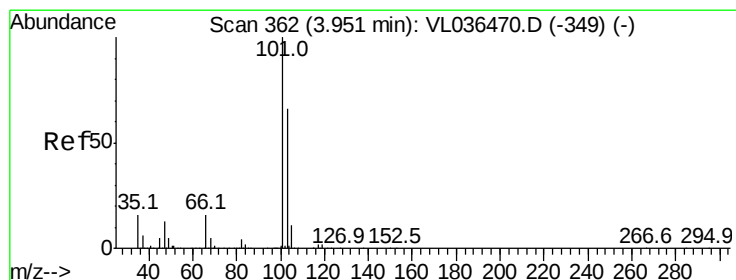
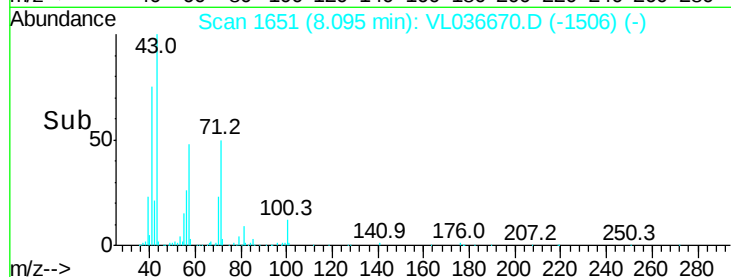
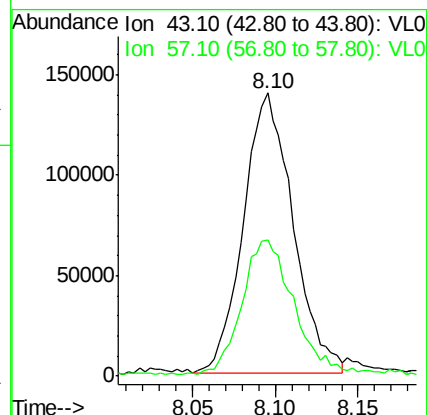
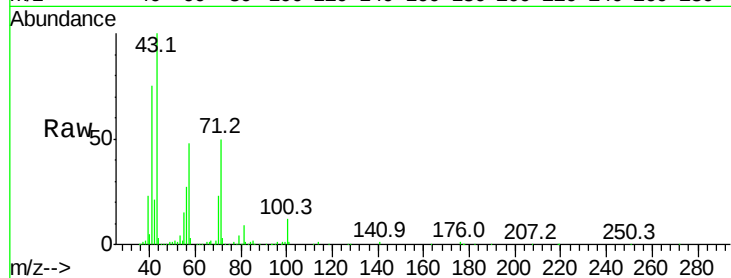




#10
 Heptane
 Concen: 1.741 ppbv
 RT: 8.10 min Scan# 1651
 Delta R.T. -0.03 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

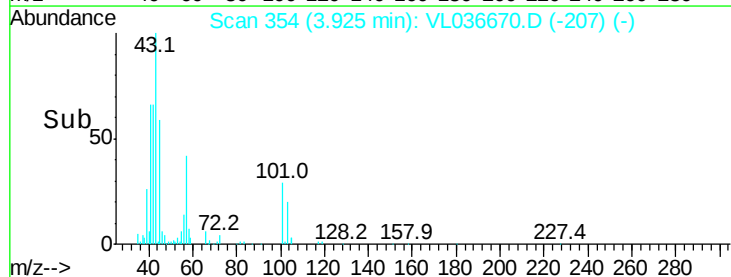
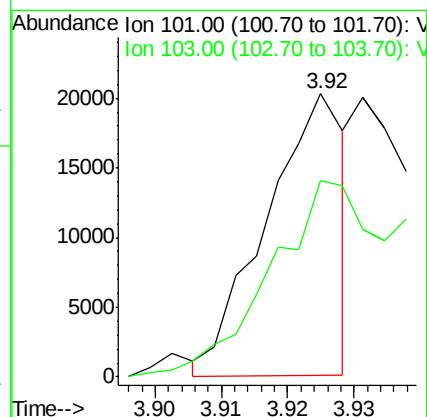
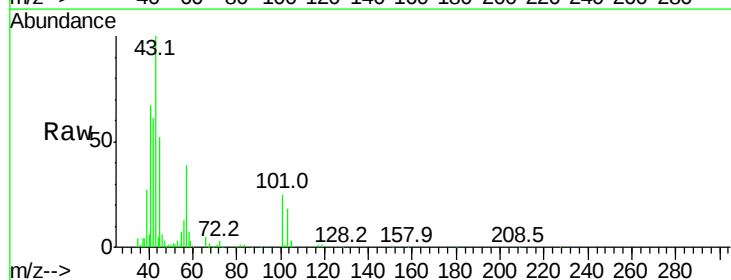
Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-03

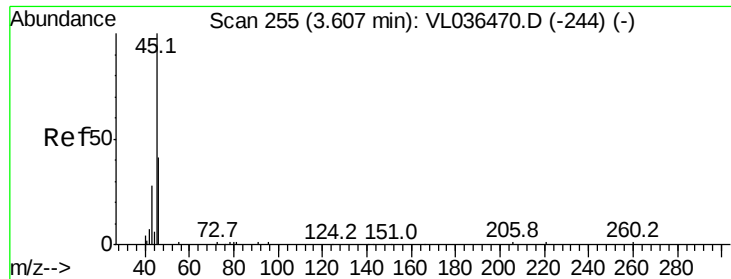
Tgt Ion: 43 Resp: 288639
 Ion Ratio Lower Upper
 43 100
 57 52.9 39.0 58.6



#11
 Trichlorofluoromethane
 Concen: 0.092 ppbv
 RT: 3.92 min Scan# 354
 Delta R.T. -0.03 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

Tgt Ion: 101 Resp: 16639
 Ion Ratio Lower Upper
 101 100
 103 67.7 52.5 78.7

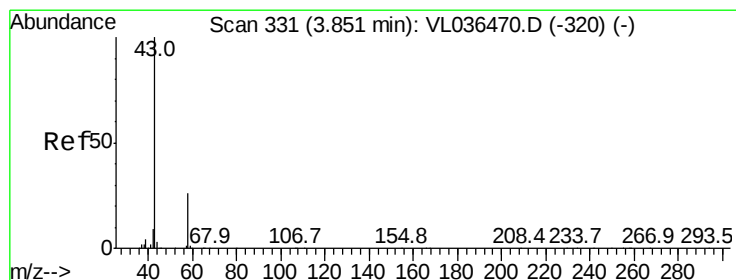
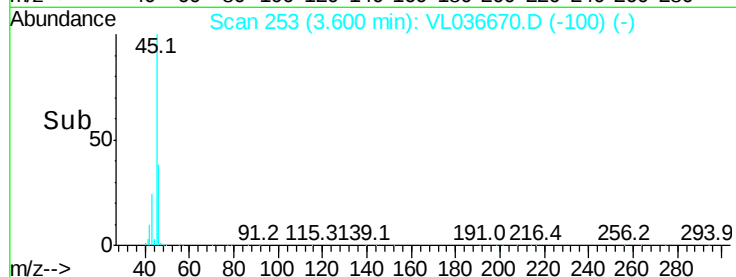
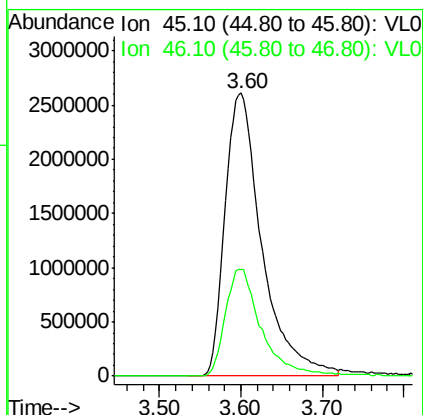
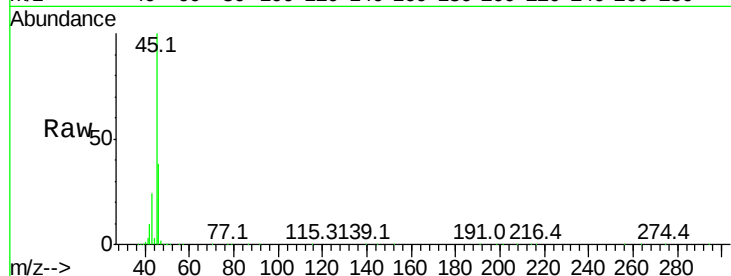




#13
Ethanol
Concen: 1068.089 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.01 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

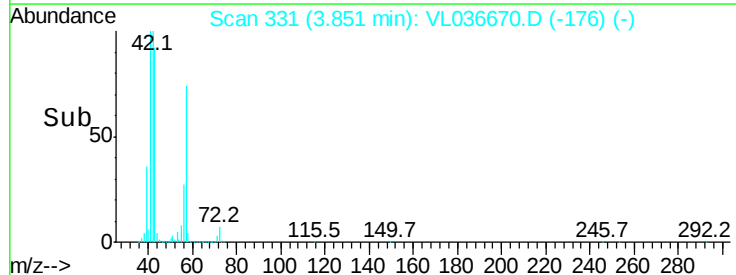
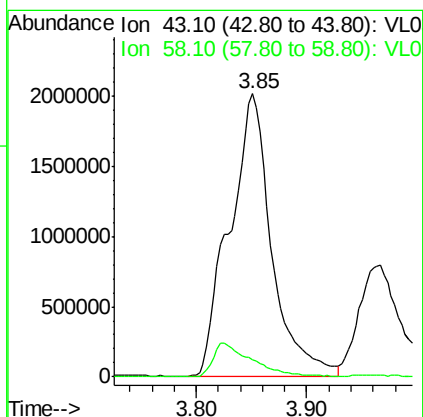
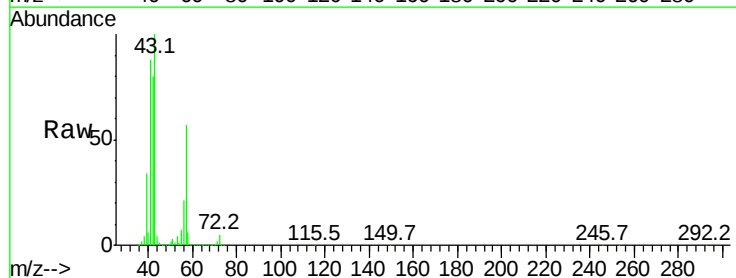
Instrument :
MSVOA_L
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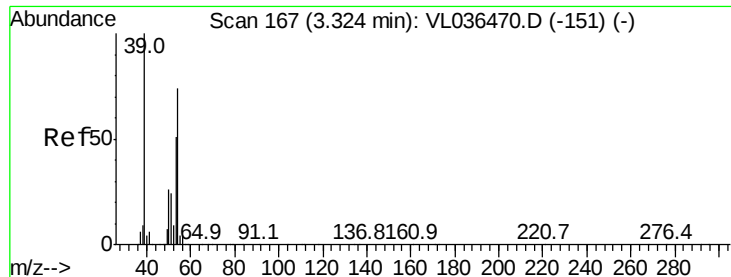
Tgt Ion: 45 Resp: 8277939
Ion Ratio Lower Upper
45 100
46 37.0 16.6 66.2



#15
Acetone
Concen: 49.386 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Tgt Ion: 43 Resp: 5311160
Ion Ratio Lower Upper
43 100
58 11.3 21.2 31.8#

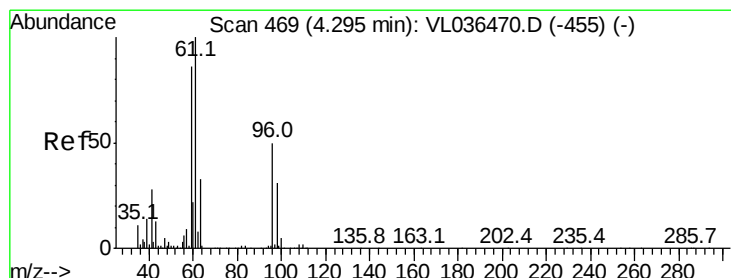
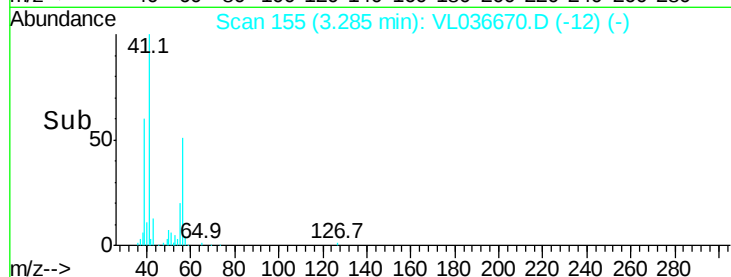
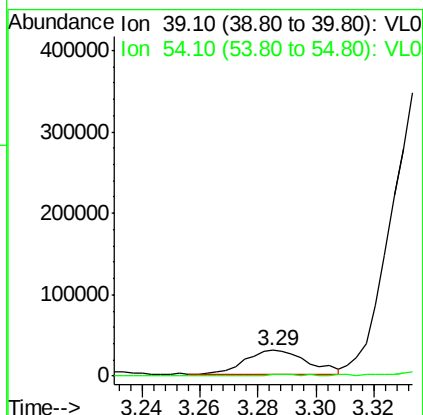
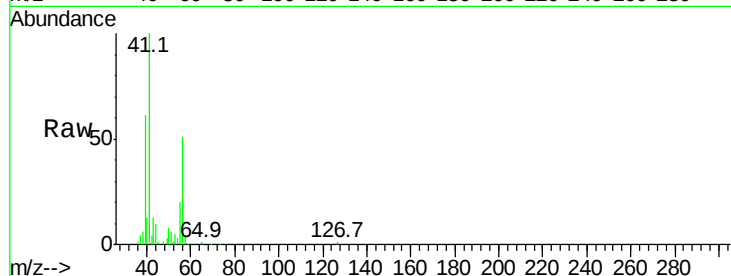




#16
1,3-Butadiene
Concen: 0.612 ppbv
RT: 3.29 min Scan# 155
Delta R.T. -0.04 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

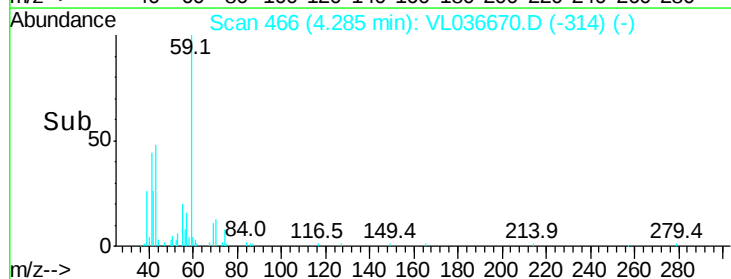
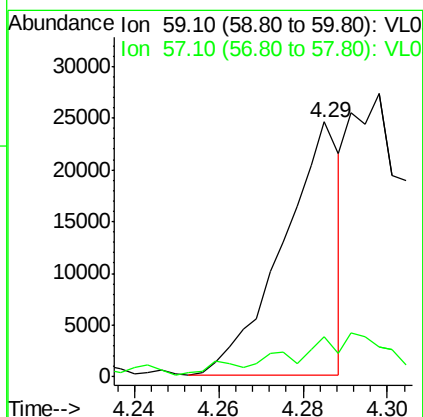
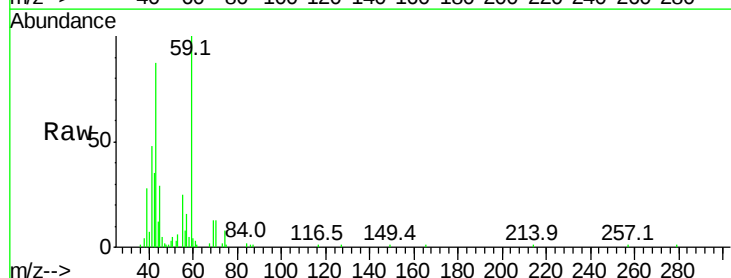
Instrument :
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SOFF-SG-03

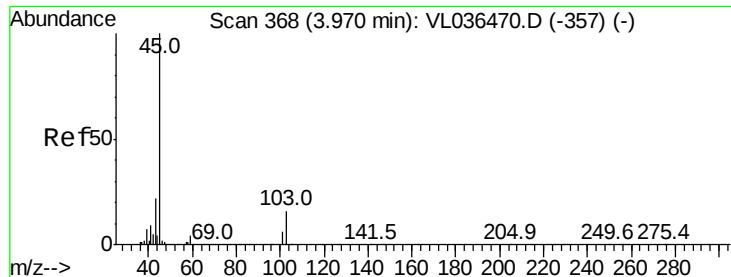
Tgt Ion: 39 Resp: 45852
Ion Ratio Lower Upper
39 100
54 0.0 58.8 88.2#



#17
tert-Butyl alcohol
Concen: 0.246 ppbv
RT: 4.29 min Scan# 466
Delta R.T. -0.01 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Tgt Ion: 59 Resp: 23059
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 157.038 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.01 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

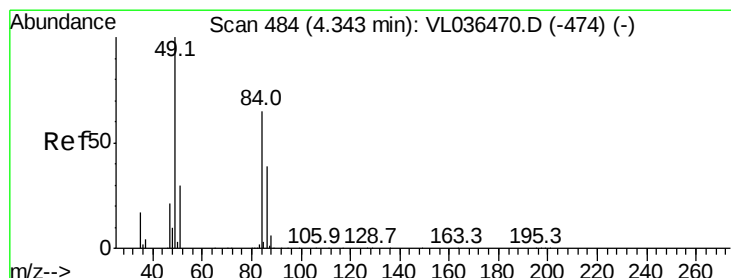
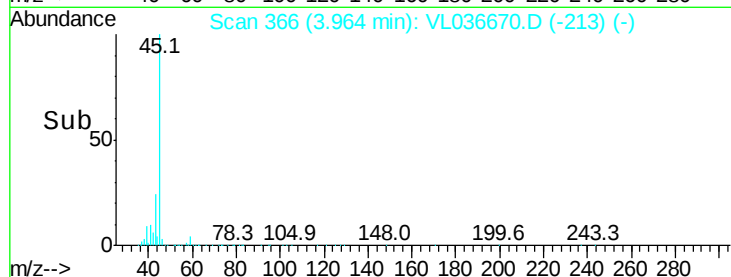
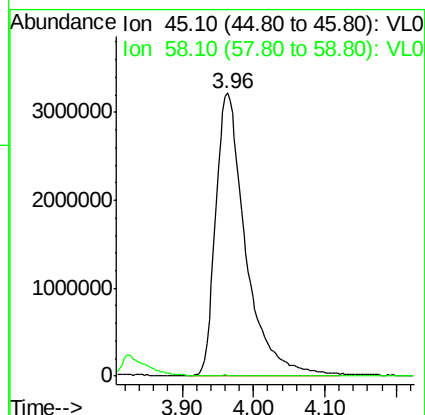
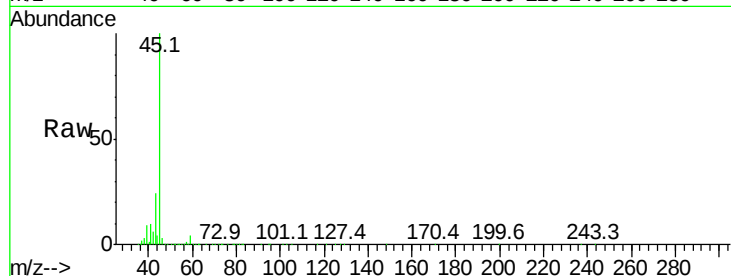
SOFF-SG-03

Tgt Ion: 45 Resp: 9290314

Ion Ratio Lower Upper

45 100

58 0.5 2.9 4.3#



#20

Methylene Chloride

Concen: 2.781 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.03 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Tgt Ion: 84 Resp: 140033

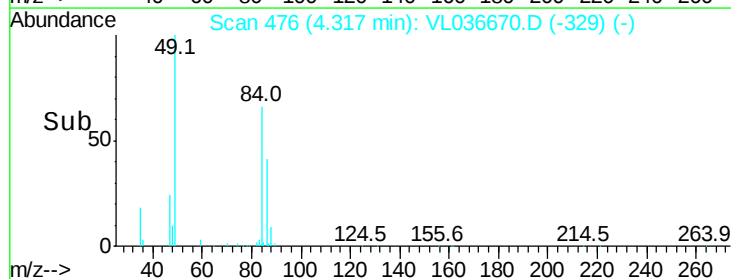
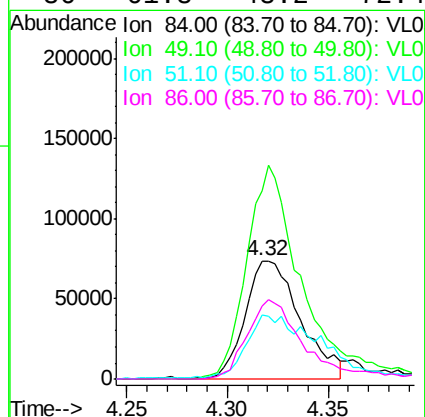
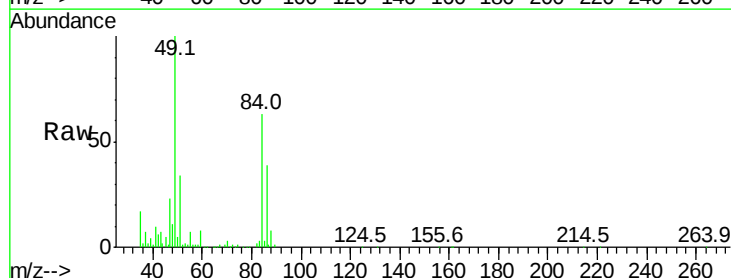
Ion Ratio Lower Upper

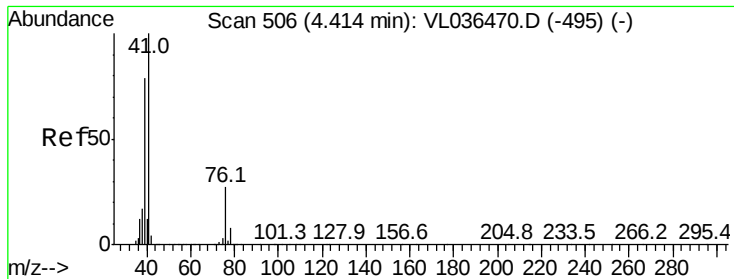
84 100

49 159.3 122.9 184.3

51 52.5 36.9 55.3

86 61.8 48.2 72.4





#21

Allyl Chloride

Concen: 1.727 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.07 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

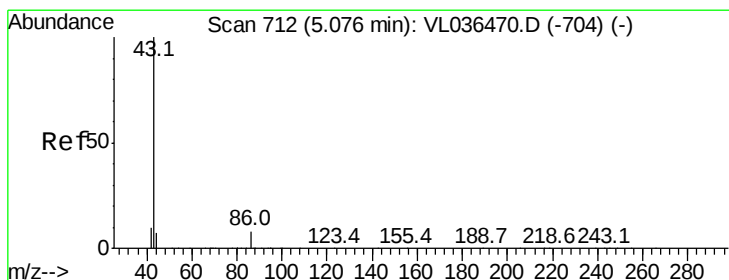
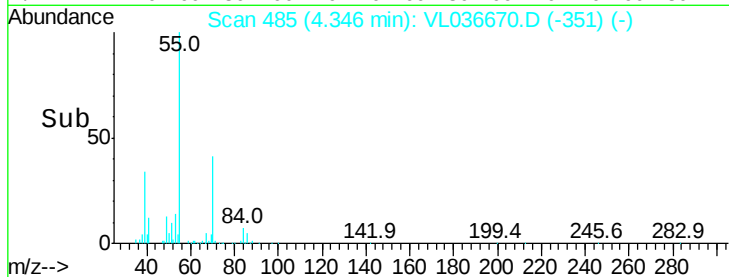
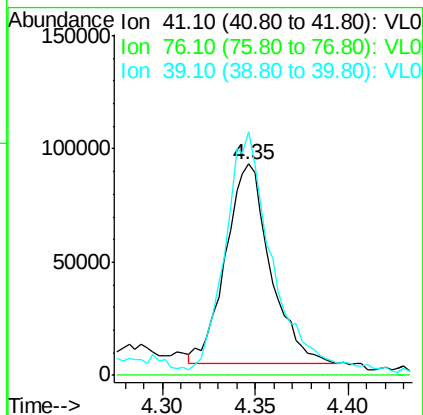
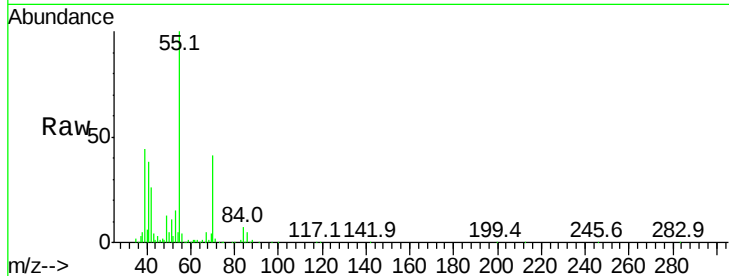
Tgt Ion: 41 Resp: 148073

Ion Ratio Lower Upper

41 100

76 0.0 22.9 34.3#

39 135.7 67.3 100.9#



#23

Vinyl Acetate

Concen: 6.618 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.05 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Tgt Ion: 43 Resp: 1217487

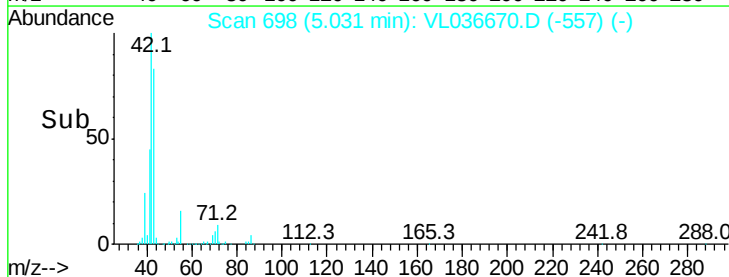
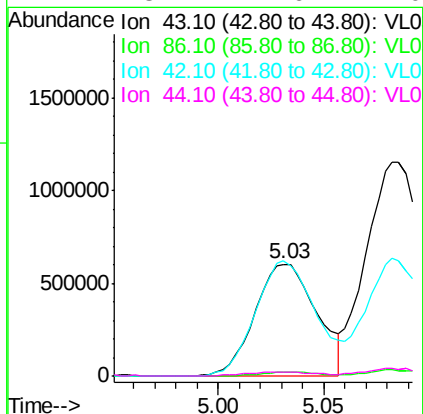
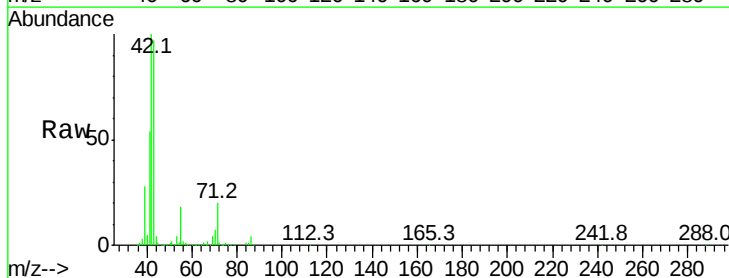
Ion Ratio Lower Upper

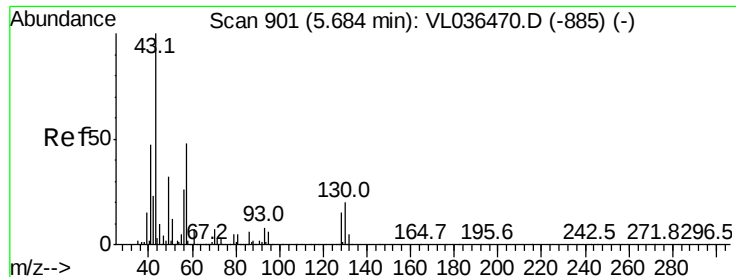
43 100

86 3.6 5.4 8.0#

42 102.9 8.5 12.7#

44 3.2 4.6 7.0#





#25

Ethyl Acetate

Concen: 2.241 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

Tgt Ion: 43 Resp: 572941

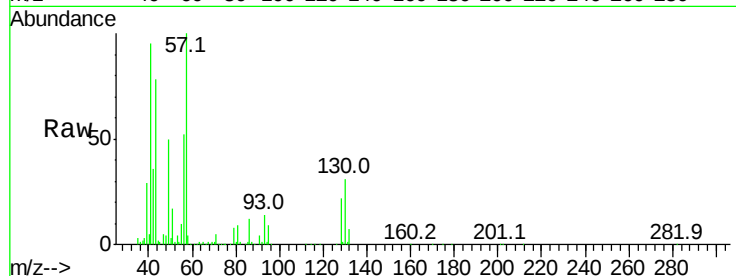
Ion Ratio Lower Upper

43 100

45 1.5 7.9 11.9#

61 1.1 7.4 11.2#

70 2.0 5.1 7.7#

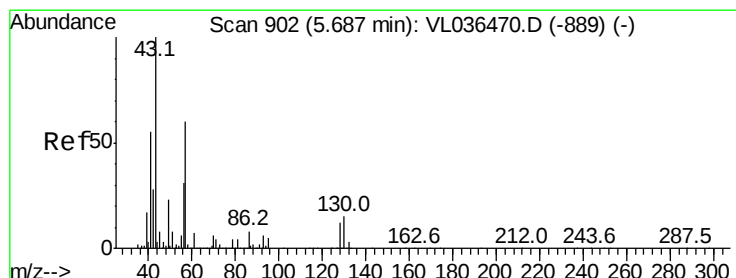
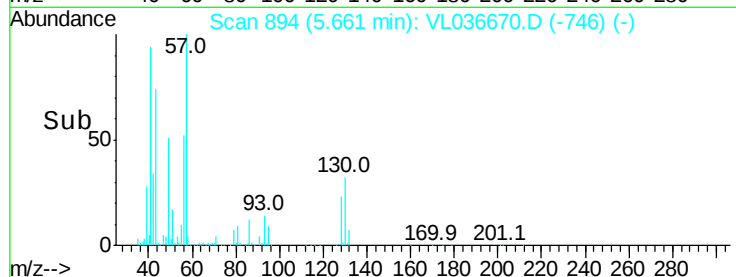
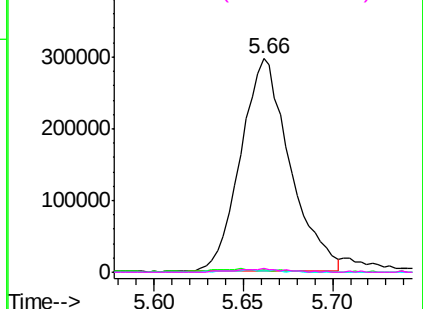


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 6.613 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Tgt Ion: 57 Resp: 784598

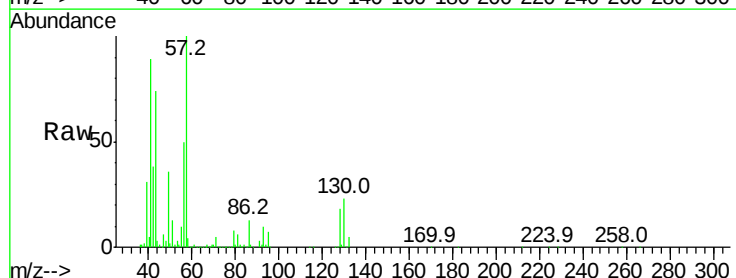
Ion Ratio Lower Upper

57 100

41 95.8 77.2 115.8

43 76.8 173.8 260.6#

56 53.7 43.8 65.6

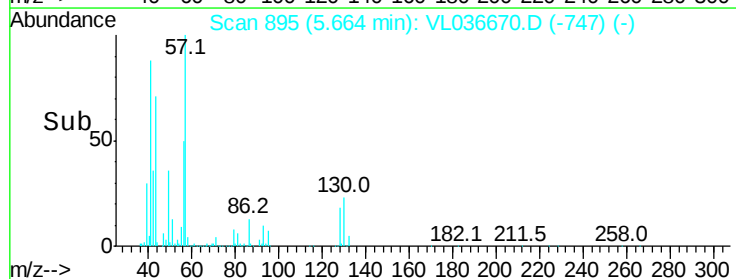
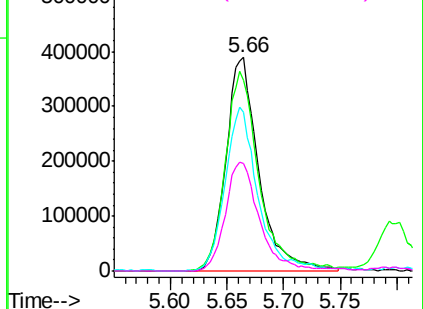


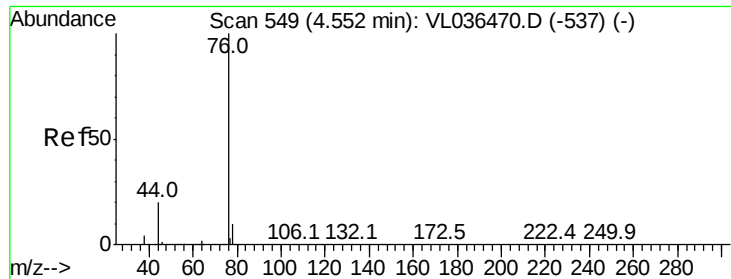
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.078 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.03 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

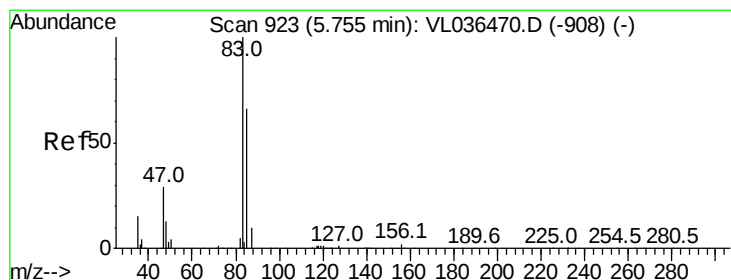
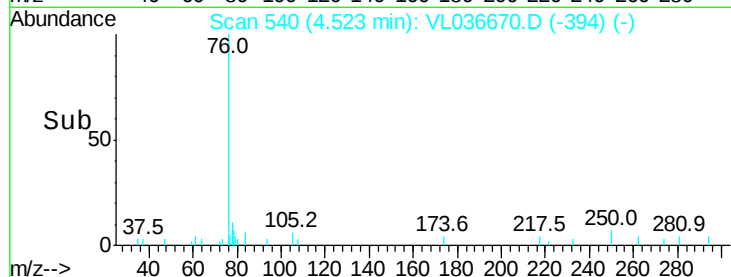
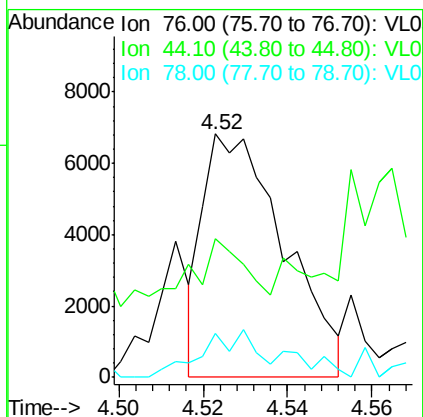
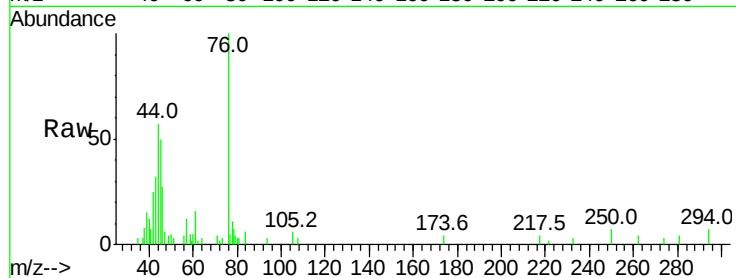
Tgt Ion: 76 Resp: 9112

Ion Ratio Lower Upper

76 100

44 0.0 17.5 26.3#

78 17.3 8.6 13.0#



#29

Chloroform

Concen: 0.041 ppbv

RT: 5.72 min Scan# 913

Delta R.T. -0.03 min

Lab File: VL036670.D

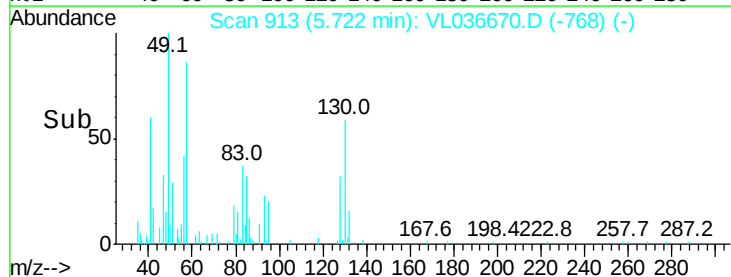
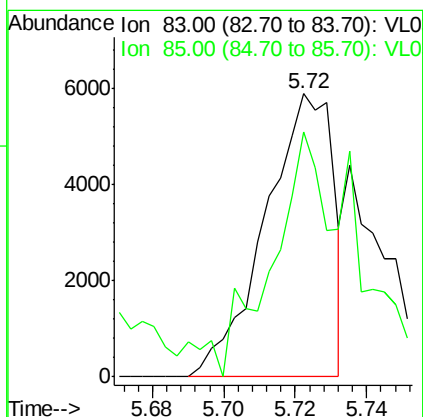
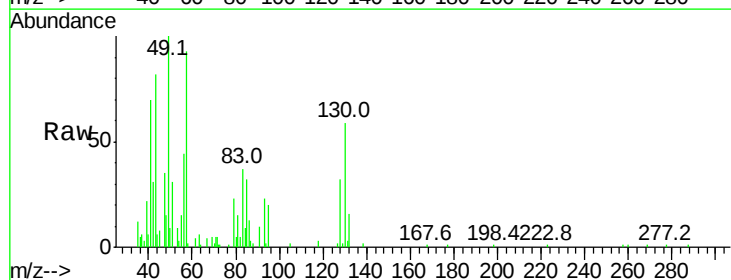
Acq: 3 Apr 2021 7:43

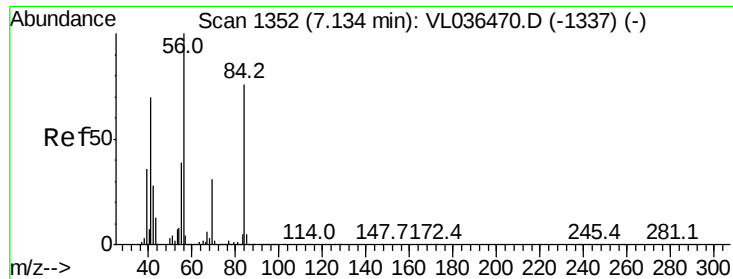
Tgt Ion: 83 Resp: 7750

Ion Ratio Lower Upper

83 100

85 74.1 52.6 78.8

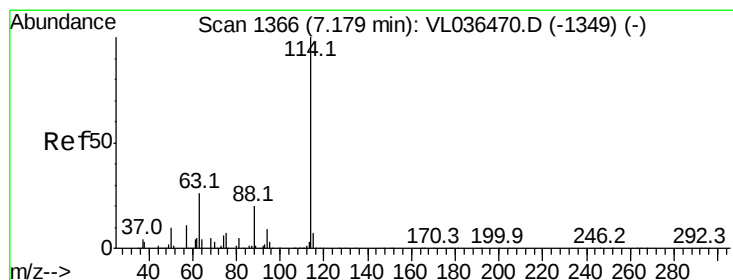
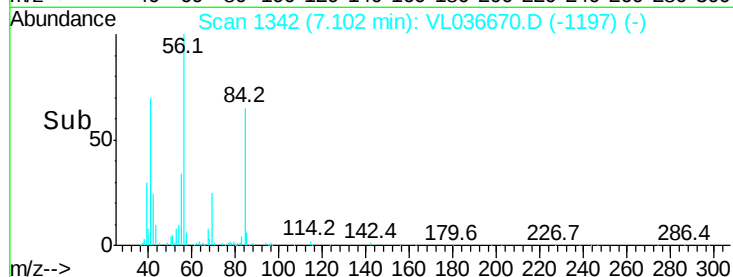
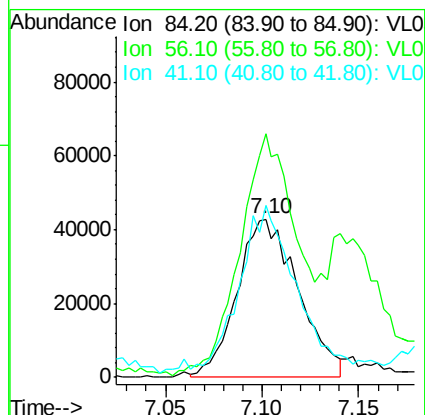
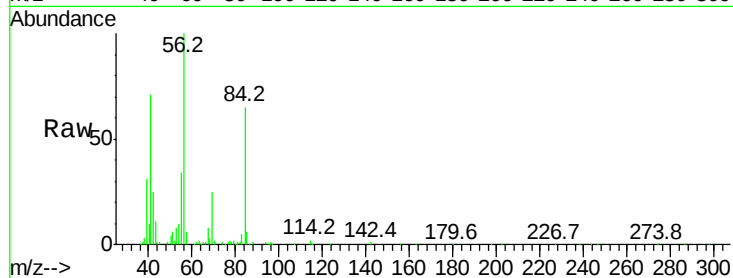




#30
Cyclohexane
Concen: 0.974 ppbv
RT: 7.10 min Scan# 1342
Delta R.T. -0.03 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

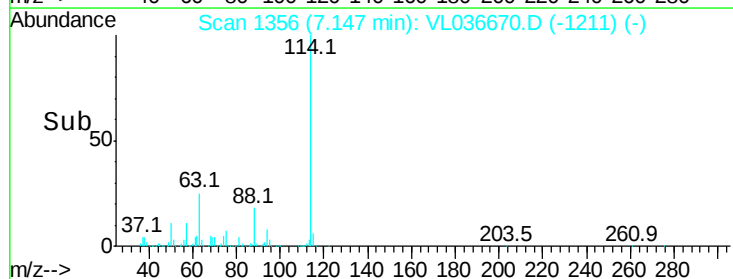
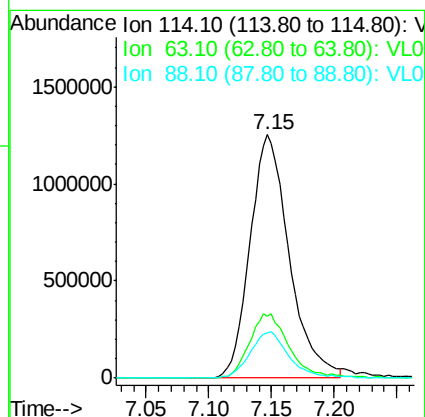
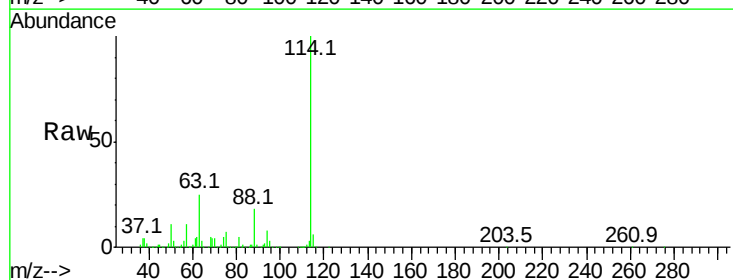
Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-03

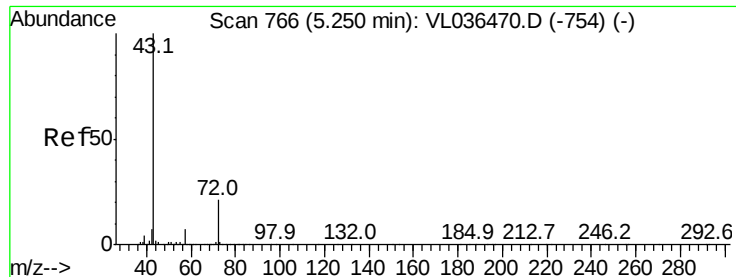
Tgt Ion: 84 Resp: 93726
Ion Ratio Lower Upper
84 100
56 136.0 114.6 171.8
41 96.0 75.3 112.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.03 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Tgt Ion: 114 Resp: 2724308
Ion Ratio Lower Upper
114 100
63 27.3 22.4 33.6
88 19.0 15.4 23.0

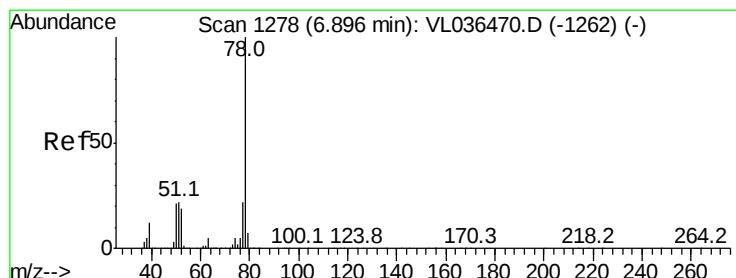
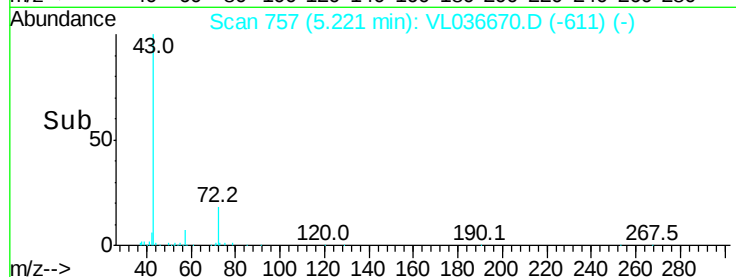
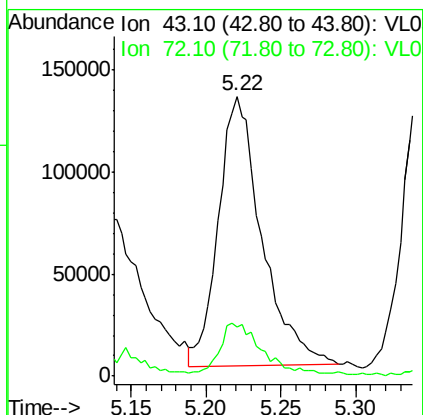
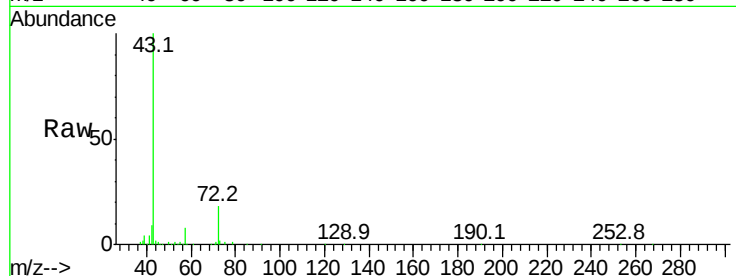




#34
2-Butanone
Concen: 2.010 ppbv
RT: 5.22 min Scan# 757
Delta R.T. -0.03 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

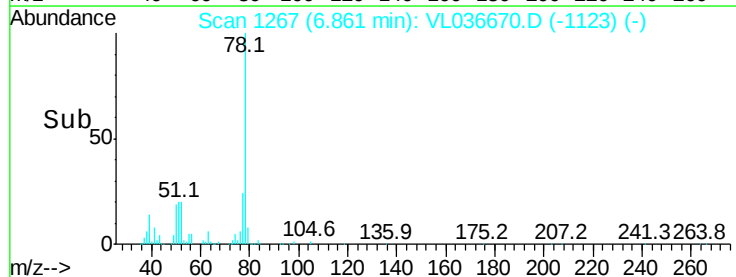
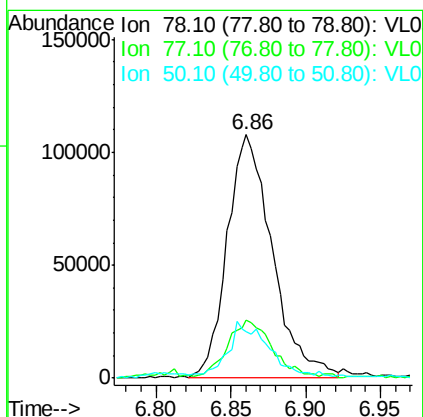
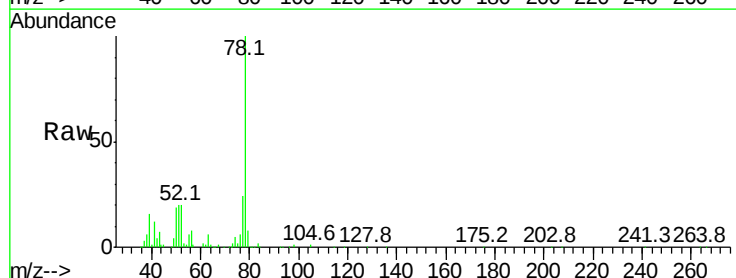
Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-03

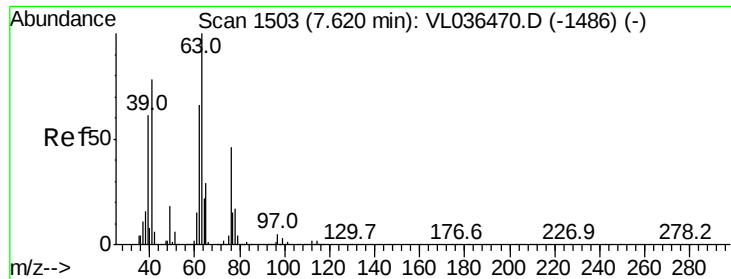
Tgt Ion: 43 Resp: 267312
Ion Ratio Lower Upper
43 100
72 21.3 17.0 25.6



#36
Benzene
Concen: 0.895 ppbv
RT: 6.86 min Scan# 1267
Delta R.T. -0.04 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Tgt Ion: 78 Resp: 224794
Ion Ratio Lower Upper
78 100
77 23.5 18.0 27.0
50 18.3 16.5 24.7

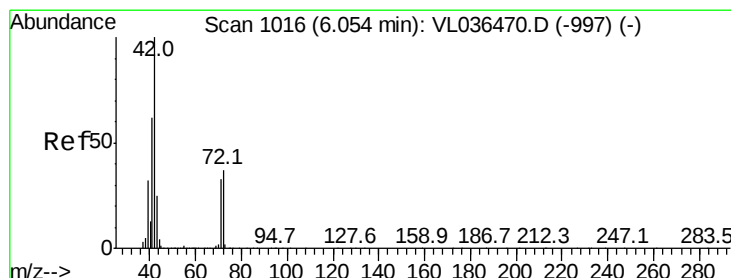
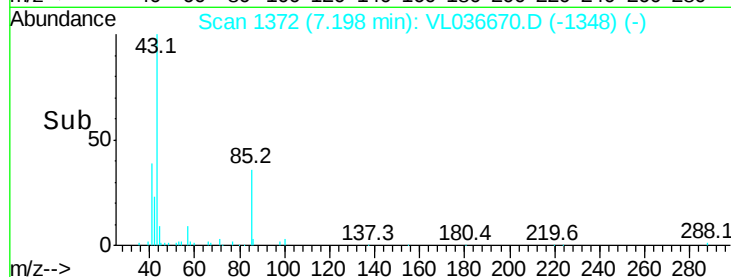
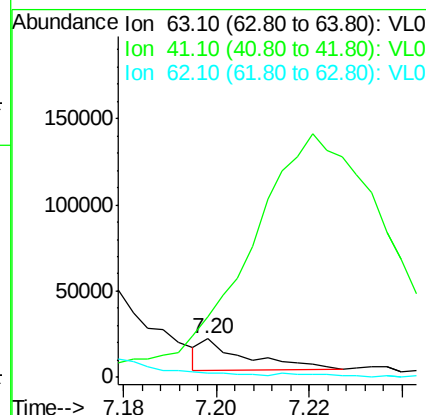
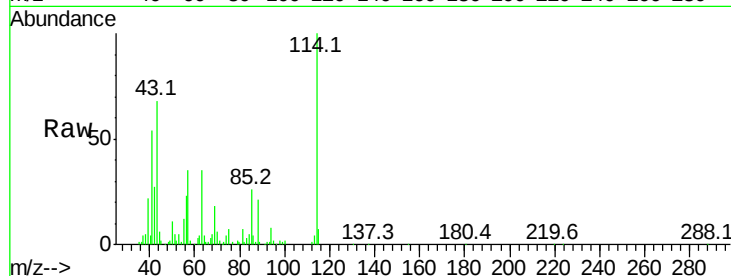




#39
 1,2-Dichloropropane
 Concen: 0.120 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.42 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

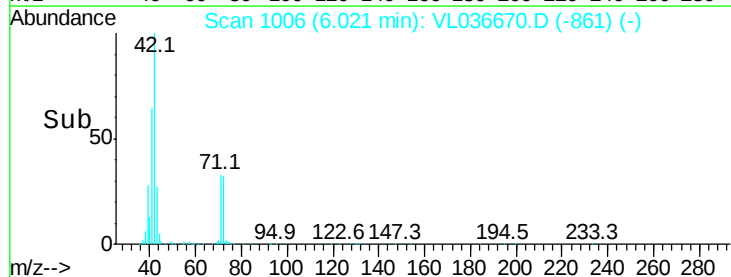
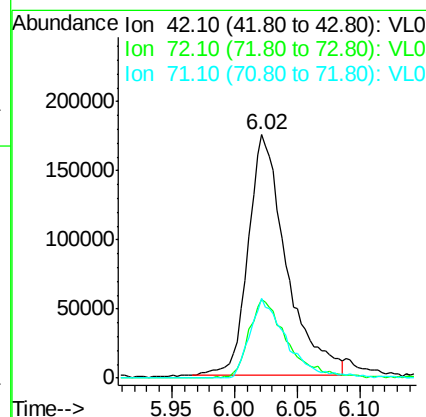
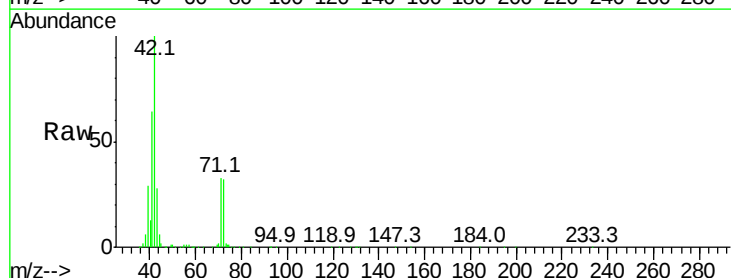
Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-03

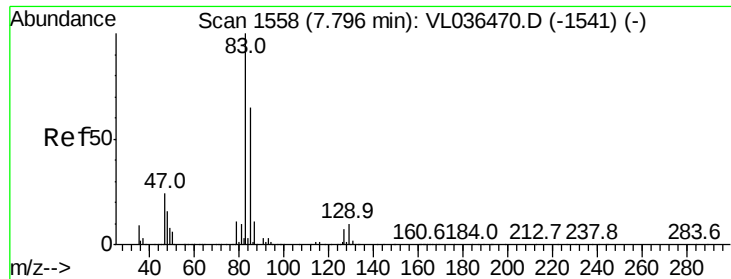
Tgt Ion: 63 Resp: 12190
 Ion Ratio Lower Upper
 63 100
 41 64.1 62.4 93.6
 62 9.9 52.8 79.2#



#41
 Tetrahydrofuran
 Concen: 6.040 ppbv
 RT: 6.02 min Scan# 1006
 Delta R.T. -0.03 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

Tgt Ion: 42 Resp: 370323
 Ion Ratio Lower Upper
 42 100
 72 34.0 27.6 41.4
 71 32.5 27.0 40.4





#42

Bromodichloromethane

Concen: 0.082 ppbv

RT: 7.76 min Scan# 1548

Delta R.T. -0.03 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

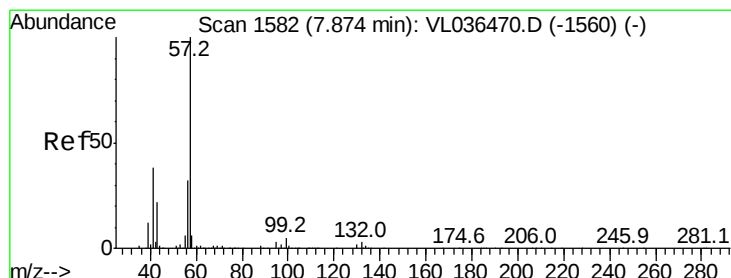
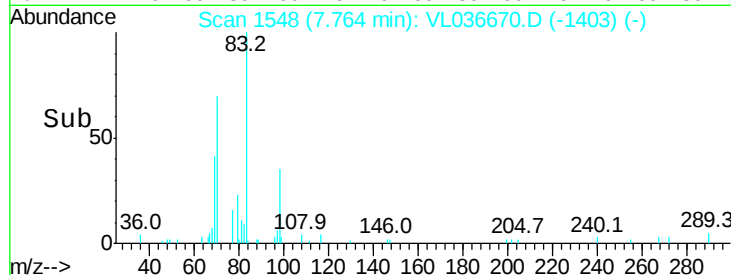
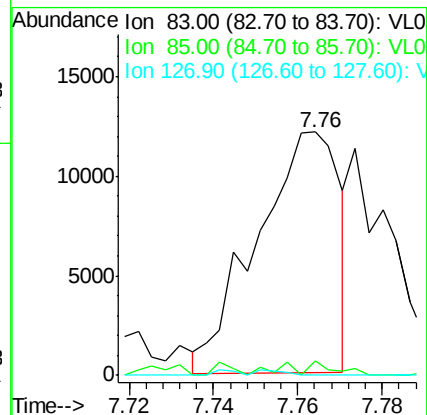
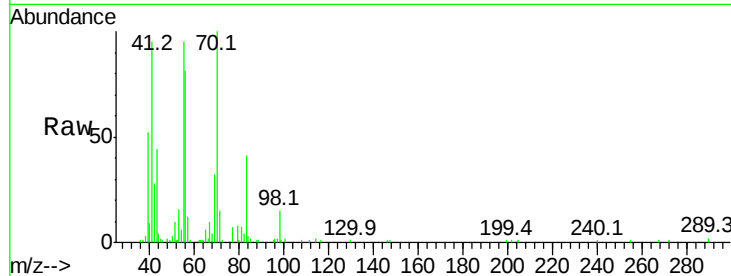
Tgt Ion: 83 Resp: 16400

Ion Ratio Lower Upper

83 100

85 6.6 51.8 77.6#

127 0.0 5.8 8.8#



#44

2,2,4-Trimethylpentane

Concen: 10.996 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.03 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Tgt Ion: 57 Resp: 4862627

Ion Ratio Lower Upper

57 100

41 37.8 28.8 43.2

56 33.7 26.1 39.1

