

Data File : VL036149.D
Acq On : 11 Dec 2020 4:47
Operator : SY/AP
Sample : L5005-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
48-2DL

Quant Time: Dec 11 07:12:48 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1306795	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	2629913	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2386693	10.00	ppbv	-0.04

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.40 95 2064136 10.89 ppbv -0.04
Spiked Amount 10.000 Range 65 - 135 Recovery = 108.90%

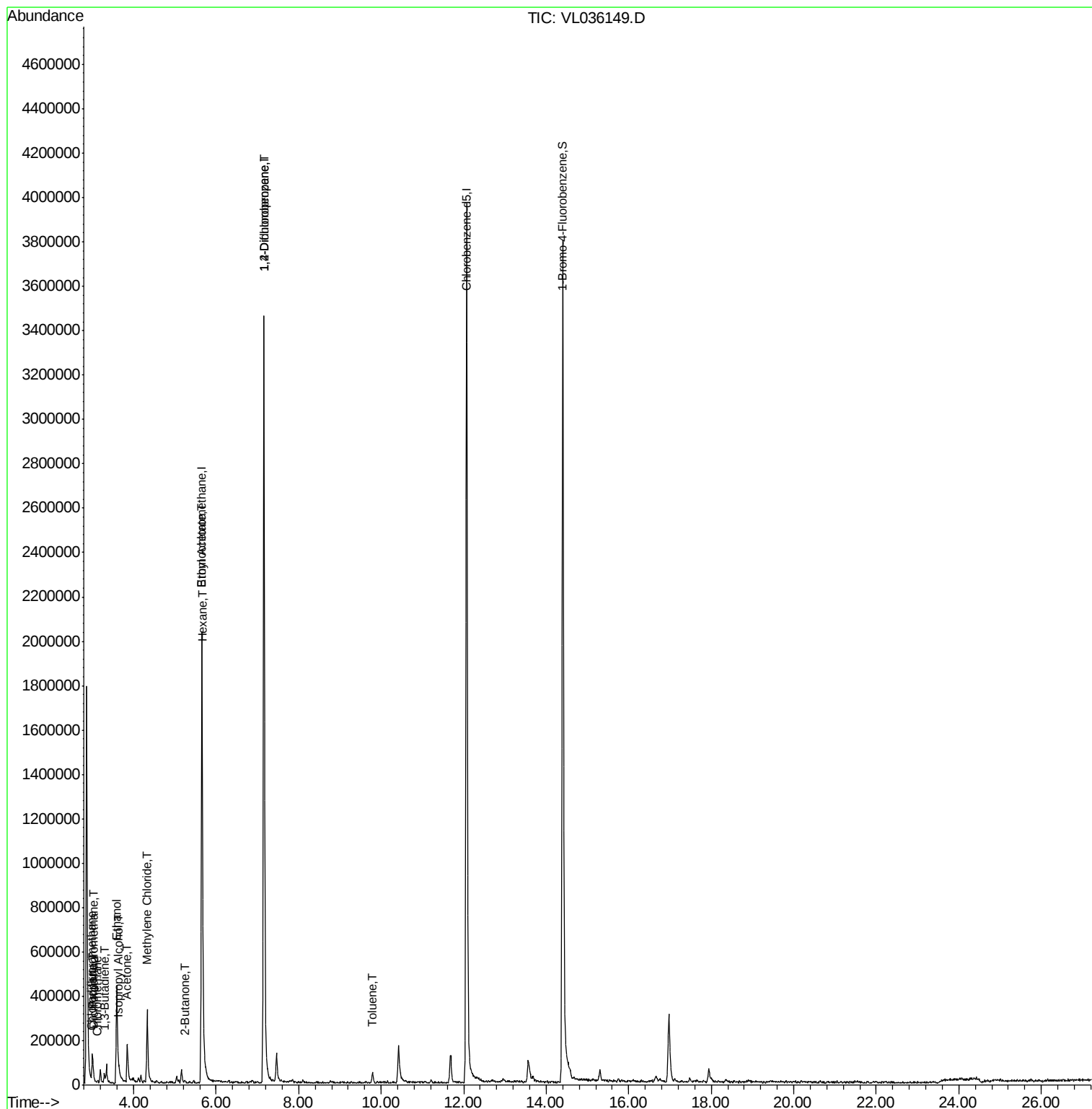
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	8706	0.057	ppbv	92
3) Chlorodifluoromethane	2.97	51	18205	0.122	ppbv #	90
4) Chloromethane	3.12	50	2574	0.035	ppbv #	61
9) Propene	2.99	41	20340	0.272	ppbv #	1
13) Ethanol	3.59	45	583472	56.667	ppbv	89
15) Acetone	3.84	43	213730	1.361	ppbv	96
16) 1,3-Butadiene	3.31	39	4640	0.059	ppbv #	61
19) Isopropyl Alcohol	3.64	45	6492	0.068	ppbv #	100
20) Methylene Chloride	4.34	84	46698	0.726	ppbv	93
25) Ethyl Acetate	5.66	43	44207	0.141	ppbv #	74
26) Hexane	5.67	57	77541	0.549	ppbv #	65
34) 2-Butanone	5.24	43	7687	0.044	ppbv #	44
39) 1,2-Dichloropropane	7.16	63	834487	9.481	ppbv #	24
53) Toluene	9.78	91	9321	0.037	ppbv #	21

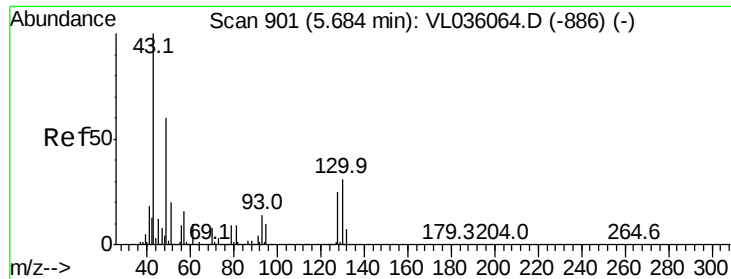
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL036149.D
Acq On : 11 Dec 2020 4:47
Operator : SY/AP
Sample : L5005-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
48-2DL

Quant Time: Dec 11 07:12:48 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.03 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Instrument :

MSVOA_L

ClientSampleId :

48-2DL

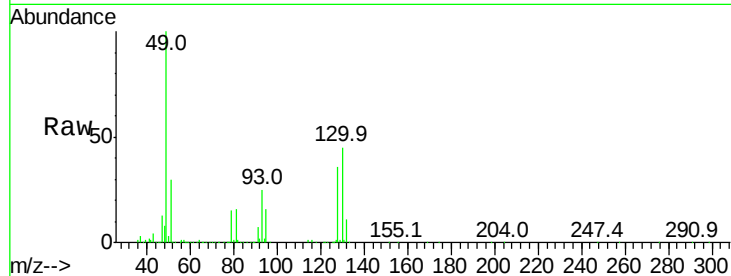
Tgt Ion: 49 Resp: 1306795

Ion Ratio Lower Upper

49 100

128 36.2 21.1 63.1

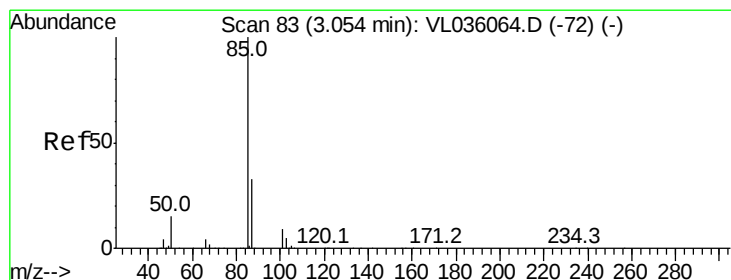
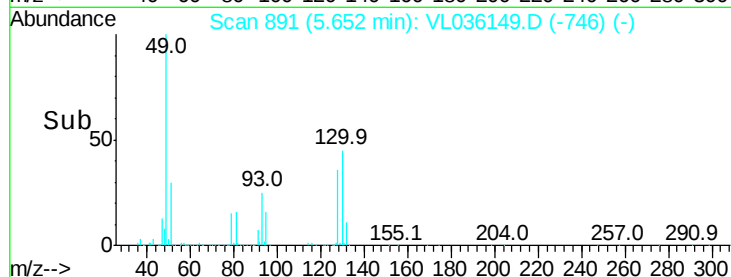
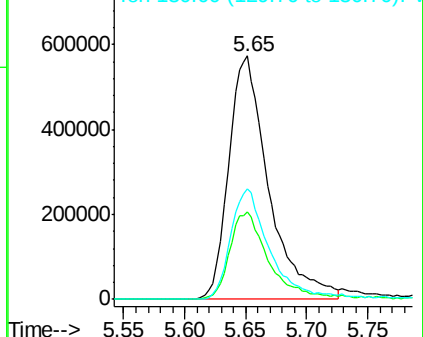
130 46.0 27.1 81.3



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: 0.057 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL036149.D

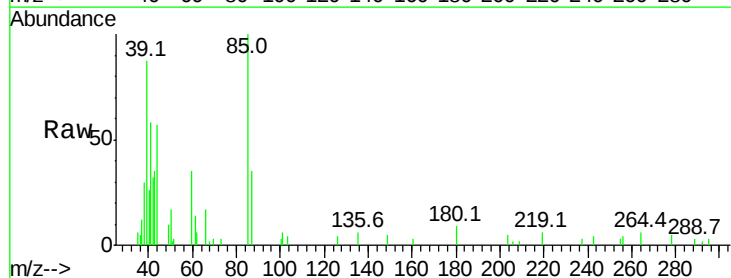
Acq: 11 Dec 2020 4:47

Tgt Ion: 85 Resp: 8706

Ion Ratio Lower Upper

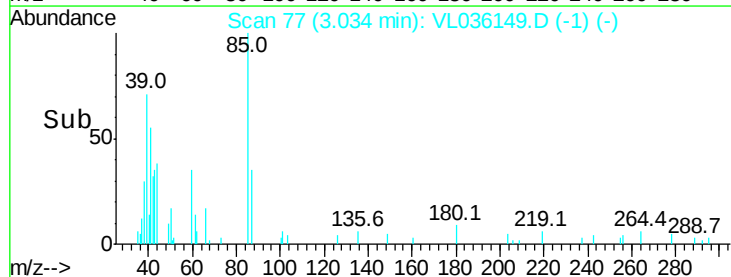
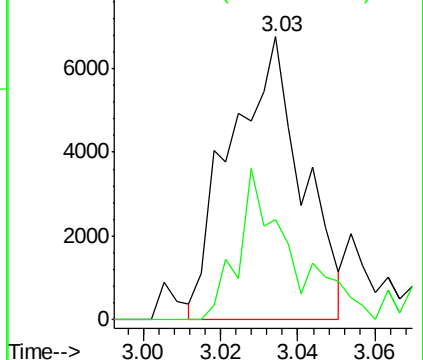
85 100

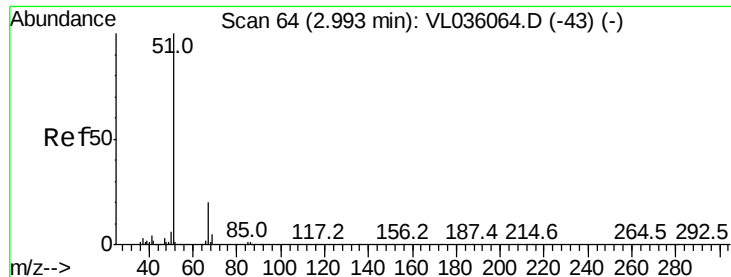
87 37.5 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.122 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.03 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Instrument :

MSVOA_L

ClientSampleId :

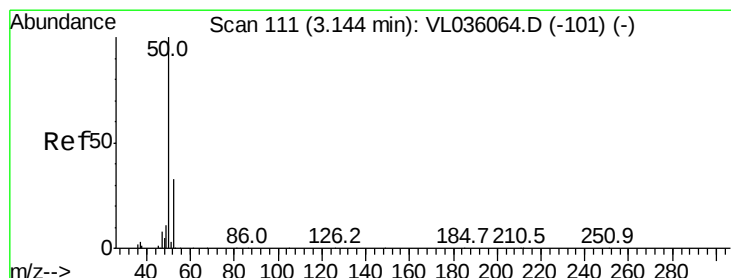
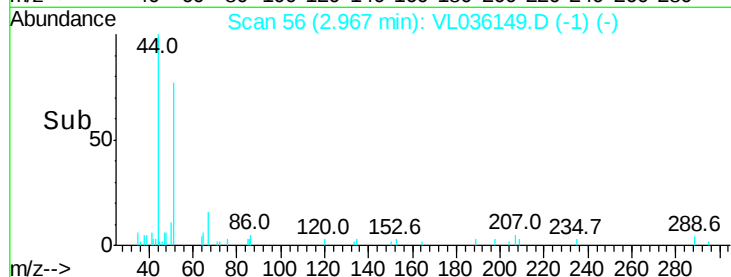
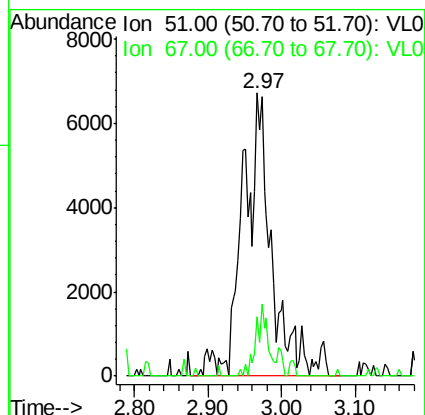
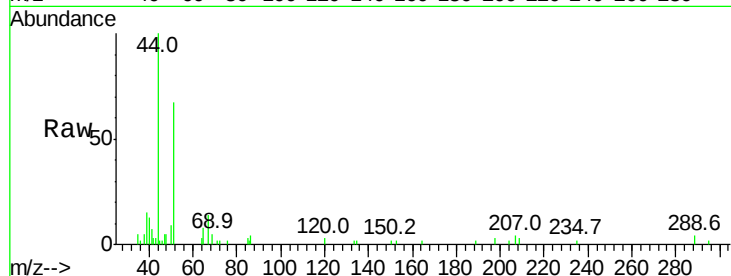
48-2DL

Tgt Ion: 51 Resp: 18205

Ion Ratio Lower Upper

51 100

67 13.3 14.3 21.5#



#4

Chloromethane

Concen: 0.035 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL036149.D

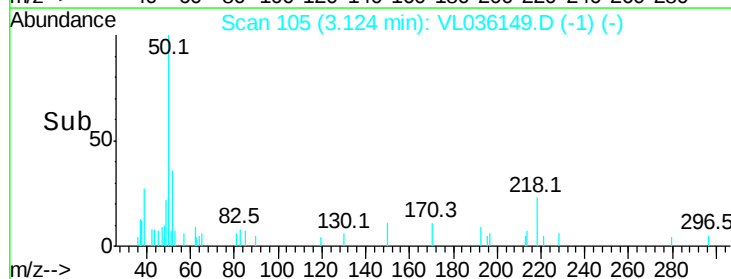
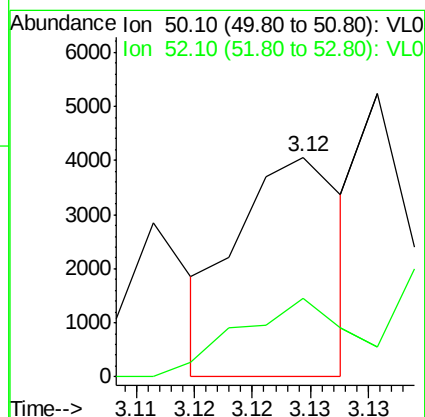
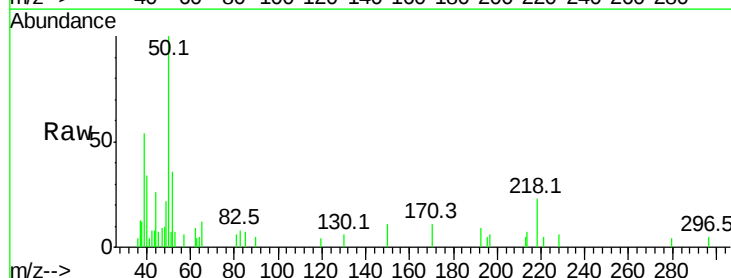
Acq: 11 Dec 2020 4:47

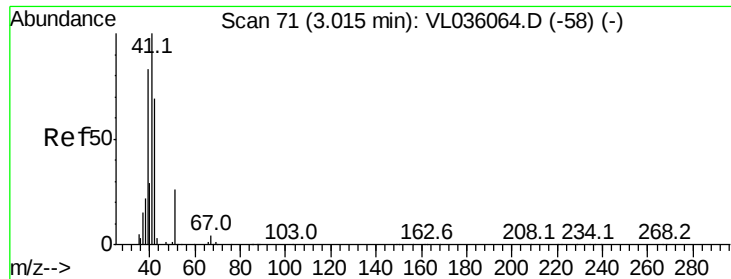
Tgt Ion: 50 Resp: 2574

Ion Ratio Lower Upper

50 100

52 54.3 26.1 39.1#





#9

Propene

Concen: 0.272 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.02 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Instrument :

MSVOA_L

ClientSampleId :

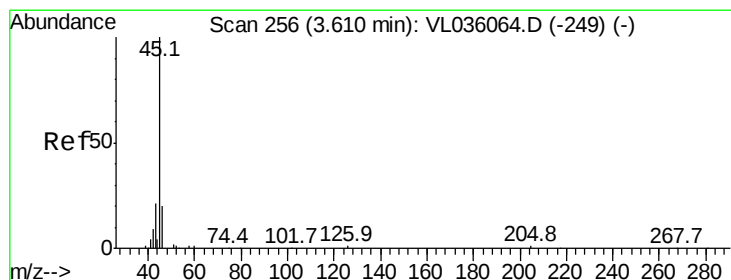
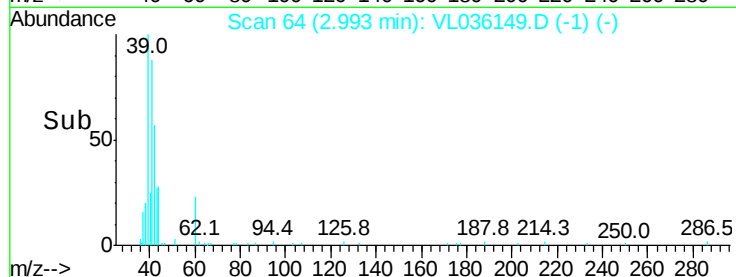
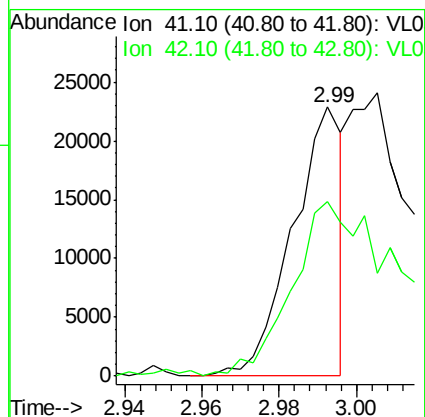
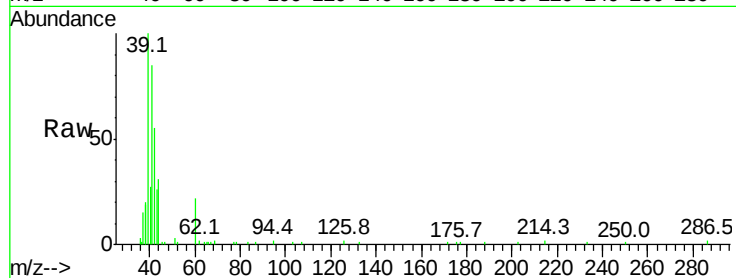
48-2DL

Tgt Ion: 41 Resp: 20340

Ion Ratio Lower Upper

41 100

42 165.4 57.0 85.6#



#13

Ethanol

Concen: 56.667 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL036149.D

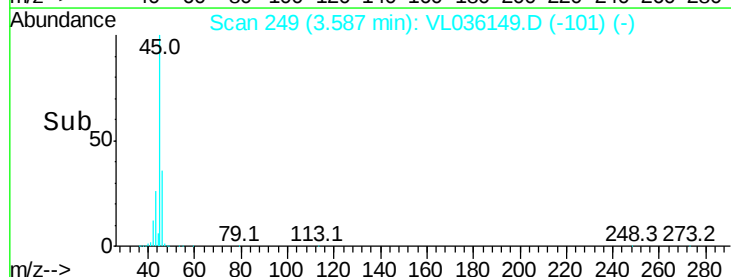
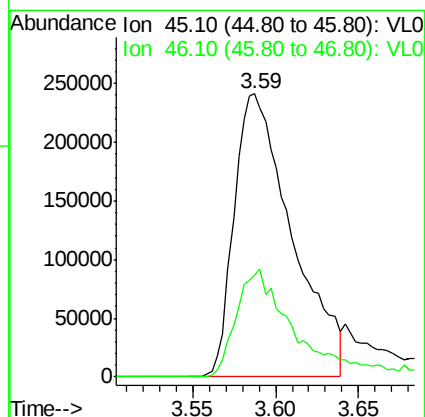
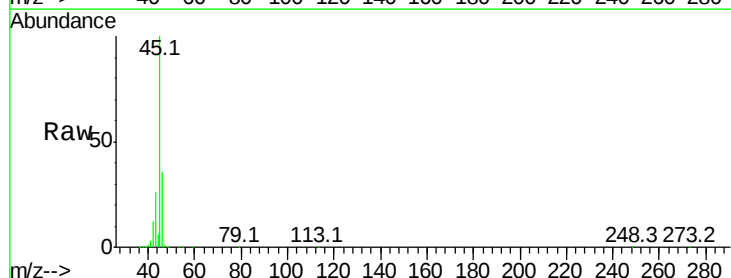
Acq: 11 Dec 2020 4:47

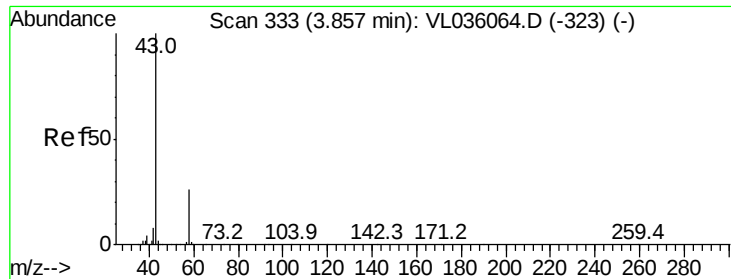
Tgt Ion: 45 Resp: 583472

Ion Ratio Lower Upper

45 100

46 40.2 19.0 75.8





#15

Acetone

Concen: 1.361 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.02 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Instrument :

MSVOA_L

ClientSampleId :

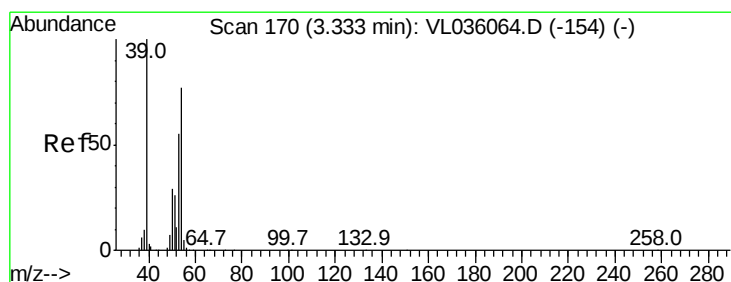
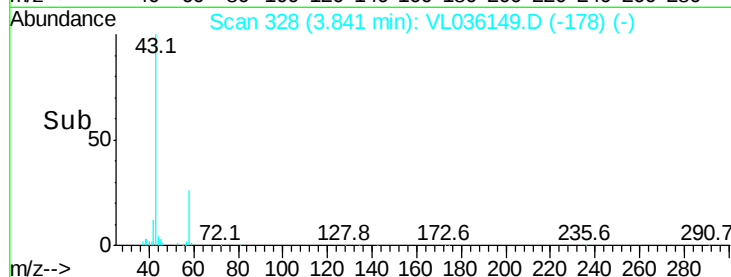
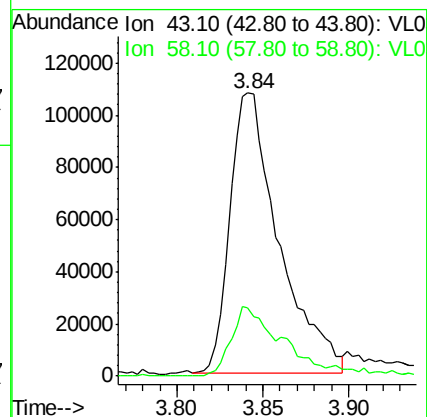
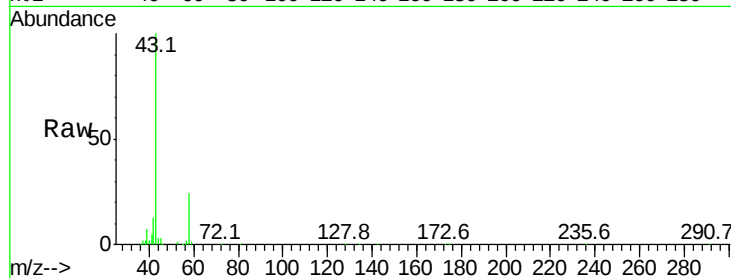
48-2DL

Tgt Ion: 43 Resp: 213730

Ion Ratio Lower Upper

43 100

58 28.3 20.9 31.3



#16

1,3-Butadiene

Concen: 0.059 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.02 min

Lab File: VL036149.D

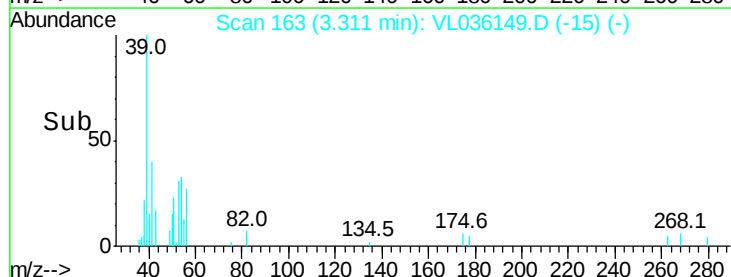
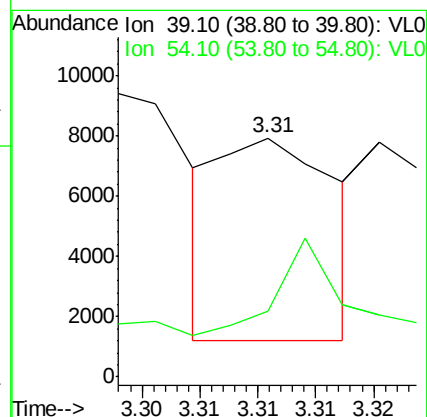
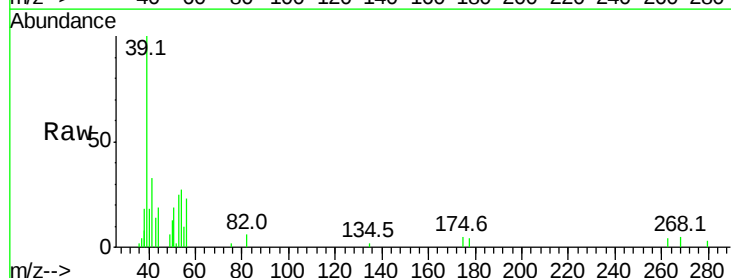
Acq: 11 Dec 2020 4:47

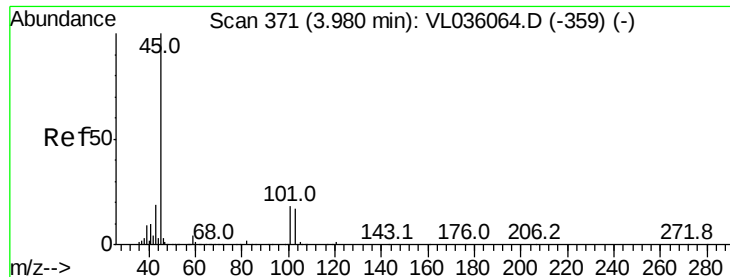
Tgt Ion: 39 Resp: 4640

Ion Ratio Lower Upper

39 100

54 111.7 62.1 93.1#





#19

Isopropyl Alcohol

Concen: 0.068 ppbv

RT: 3.64 min Scan# 266

Delta R.T. -0.34 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Instrument :

MSVOA_L

ClientSampleId :

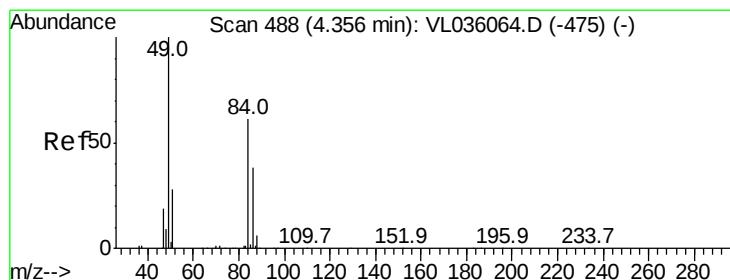
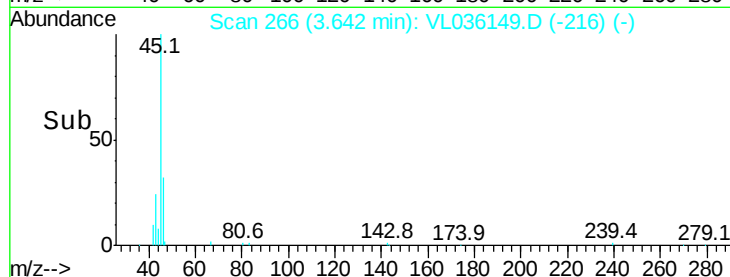
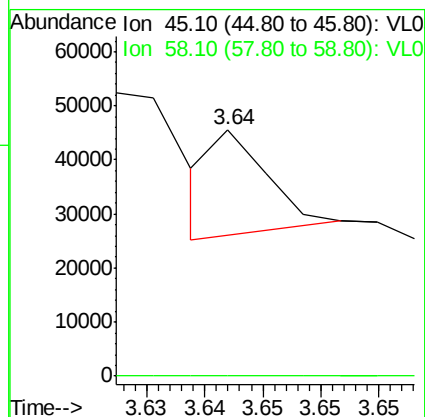
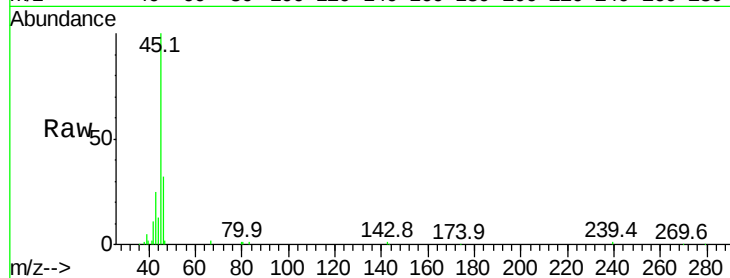
48-2DL

Tgt Ion: 45 Resp: 6492

Ion Ratio Lower Upper

45 100

58 912.4 0.0 0.0#



#20

Methylene Chloride

Concen: 0.726 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.02 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Tgt Ion: 84 Resp: 46698

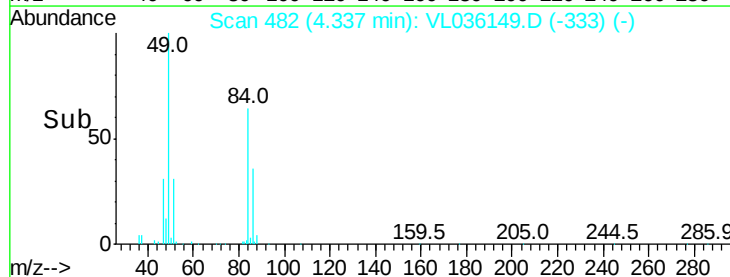
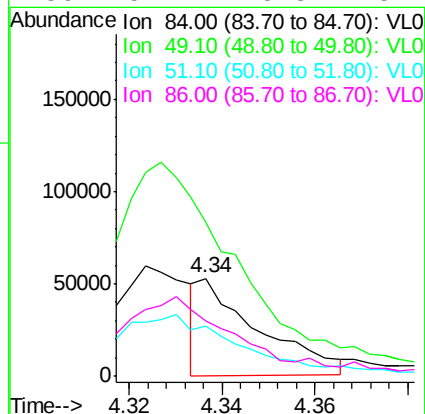
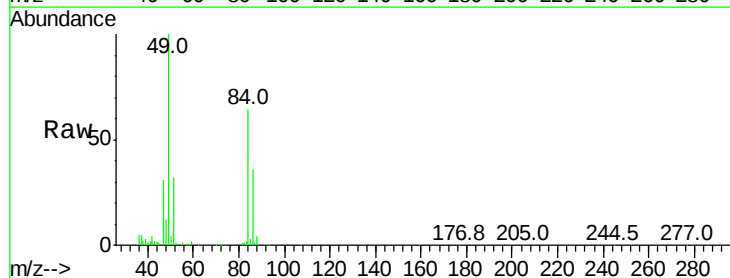
Ion Ratio Lower Upper

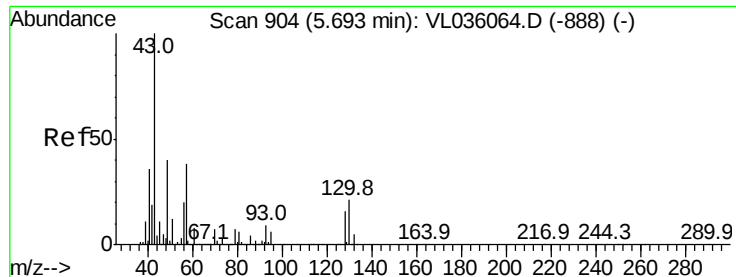
84 100

49 153.3 133.0 199.4

51 48.6 38.9 58.3

86 57.1 48.8 73.2





#25

Ethyl Acetate

Concen: 0.141 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.03 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Instrument :

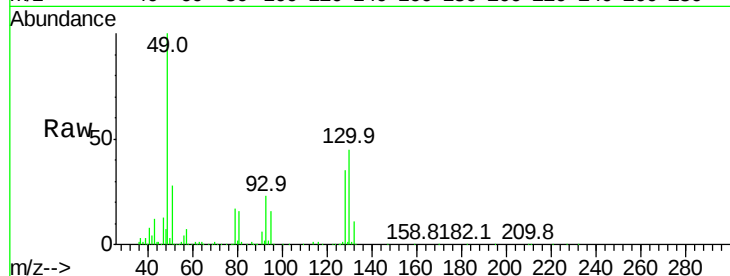
MSVOA_L

ClientSampleId :

48-2DL

Tgt Ion: 43 Resp: 44207

Ion	Ratio	Lower	Upper
43	100		
45	22.6	8.2	12.4#
61	0.0	7.4	11.2#
70	12.6	5.4	8.0#



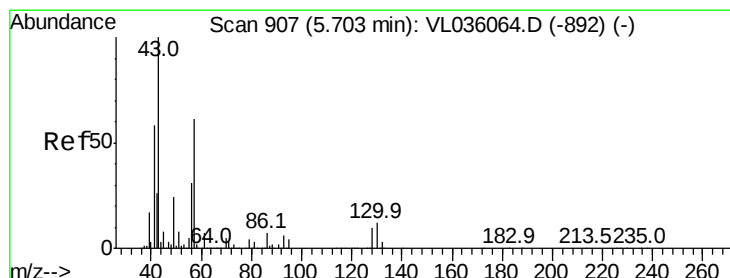
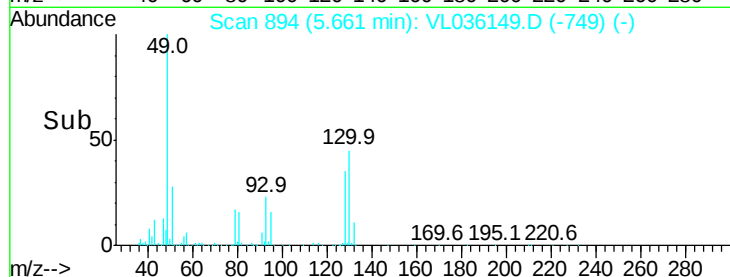
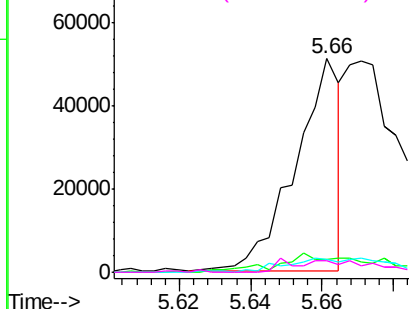
Abundance

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: 0.549 ppbv

RT: 5.67 min Scan# 896

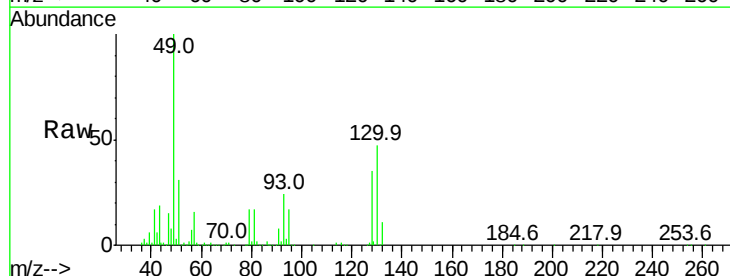
Delta R.T. -0.04 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Tgt Ion: 57 Resp: 77541

Ion	Ratio	Lower	Upper
57	100		
41	113.4	82.9	124.3
43	158.2	199.9	299.9#
56	53.9	43.1	64.7



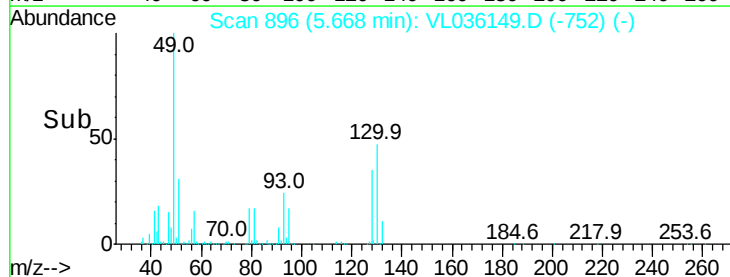
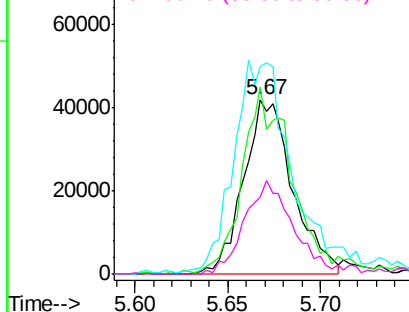
Abundance

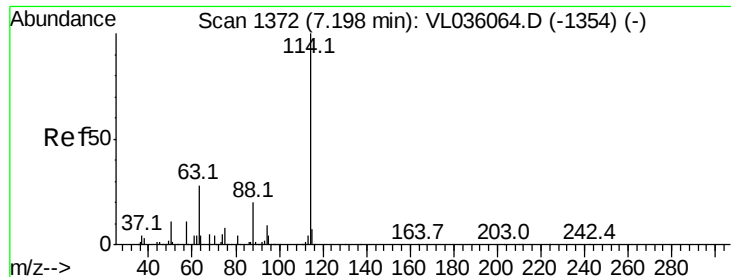
Ion 57.10 (56.80 to 57.80): VL0

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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.04 min

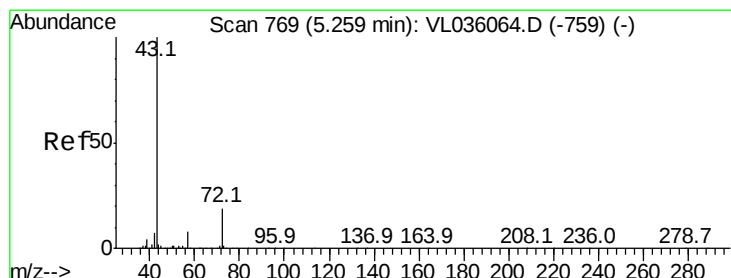
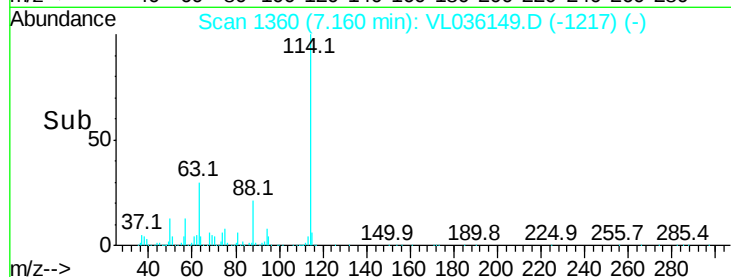
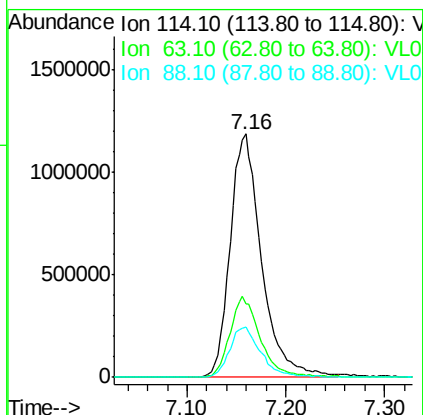
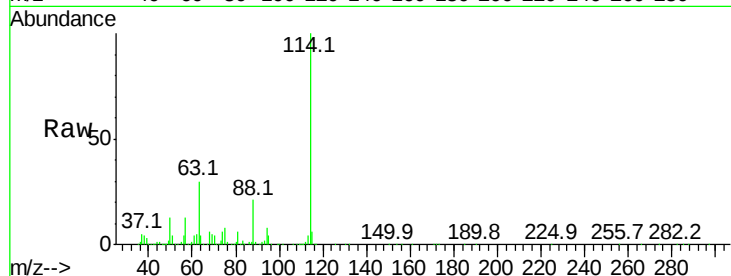
Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Instrument :
MSVOA_L
ClientSampleId :
48-2DL

Tgt Ion: 114 Resp: 2629913

Ion	Ratio	Lower	Upper
114	100		
63	32.5	23.6	35.4
88	21.0	15.8	23.6



#34

2-Butanone

Concen: 0.044 ppbv

RT: 5.24 min Scan# 762

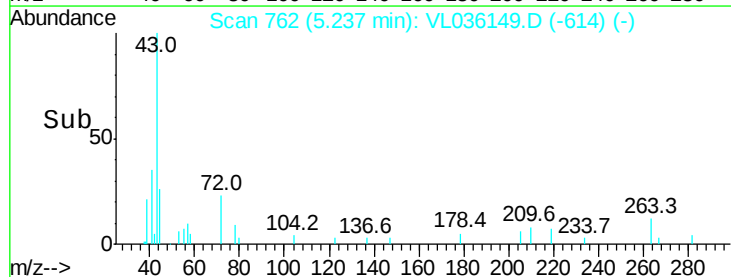
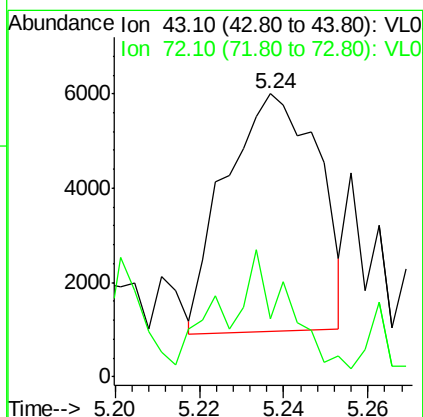
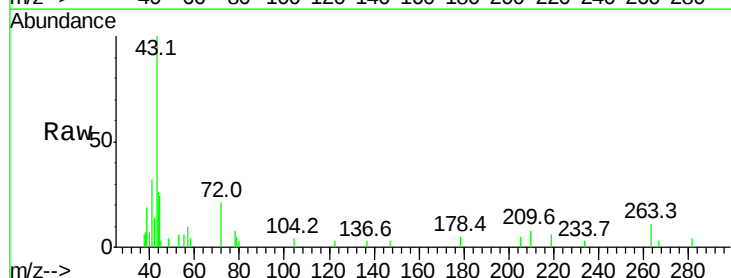
Delta R.T. -0.02 min

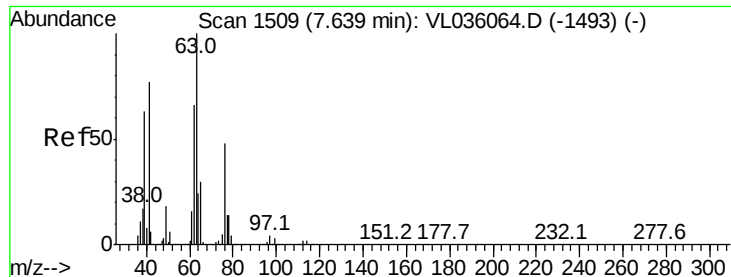
Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Tgt Ion: 43 Resp: 7687

Ion	Ratio	Lower	Upper
43	100		
72	46.7	16.5	24.7#





#39

1,2-Dichloropropane

Concen: 9.481 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.48 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Instrument :

MSVOA_L

ClientSampled :

48-2DL

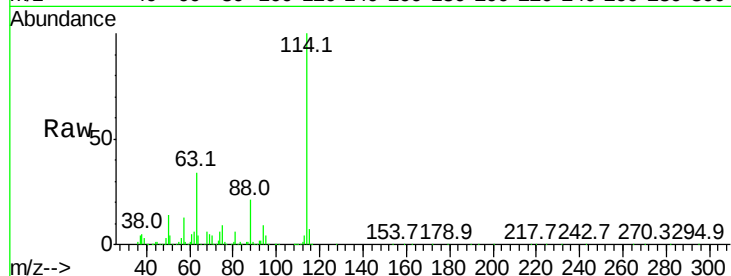
Tgt Ion: 63 Resp: 834487

Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

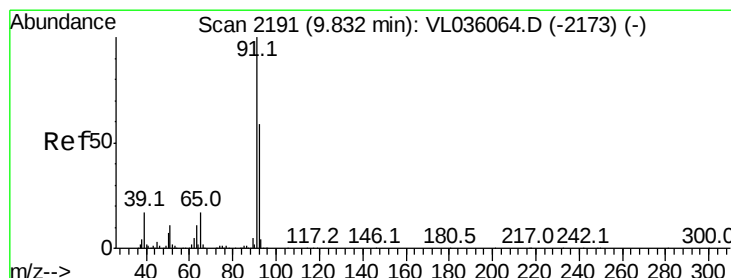
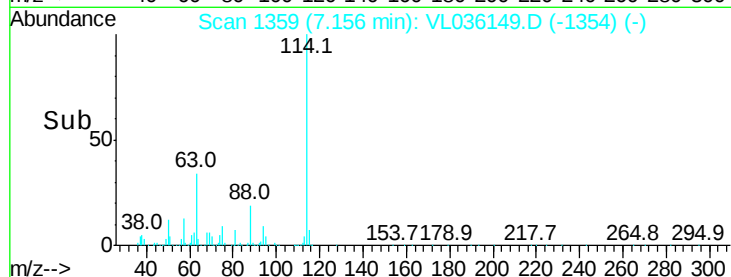
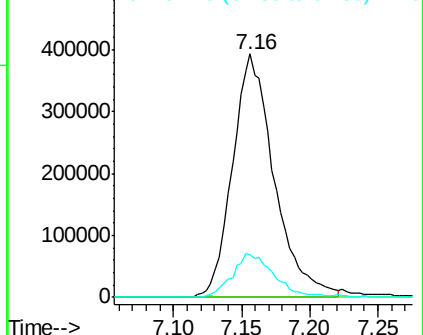
62 17.3 52.5 78.7#



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



#53

Toluene

Concen: 0.037 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.05 min

Lab File: VL036149.D

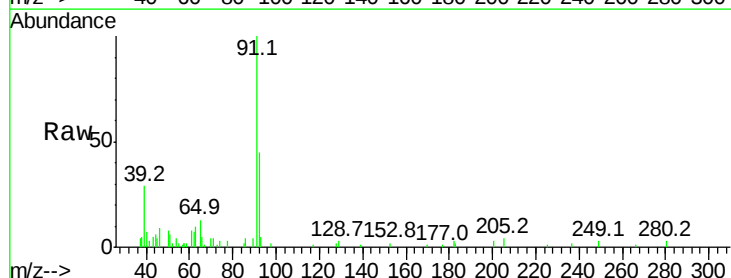
Acq: 11 Dec 2020 4:47

Tgt Ion: 91 Resp: 9321

Ion Ratio Lower Upper

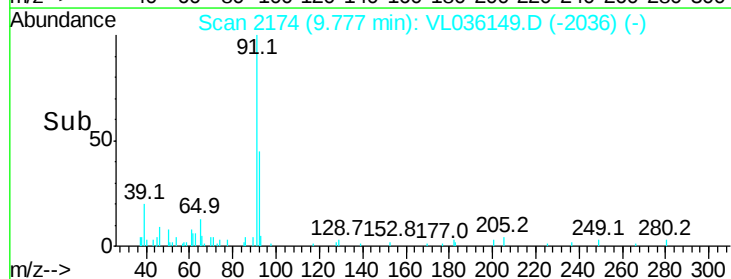
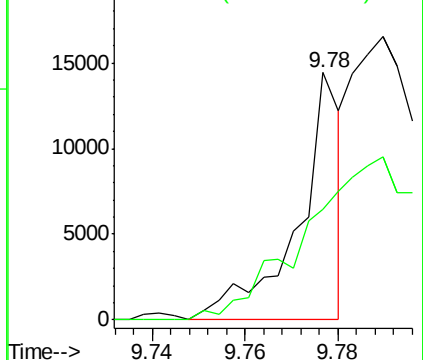
91 100

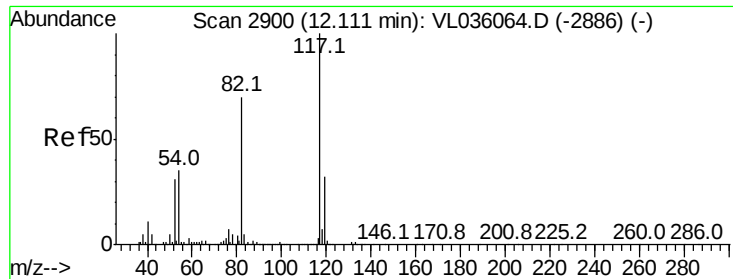
92 0.0 48.2 72.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.04 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Instrument :

MSVOA_L

ClientSampleId :

48-2DL

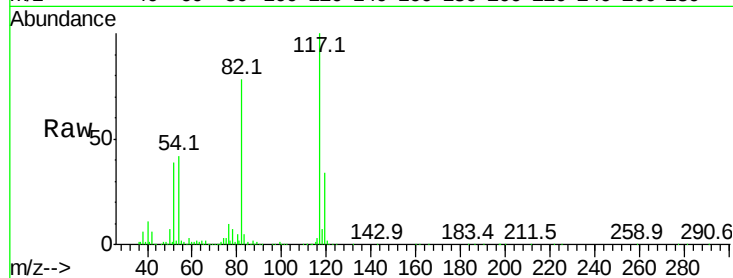
Tgt Ion: 117 Resp: 2386693

Ion Ratio Lower Upper

117 100

82 78.8 0.0 0.0#

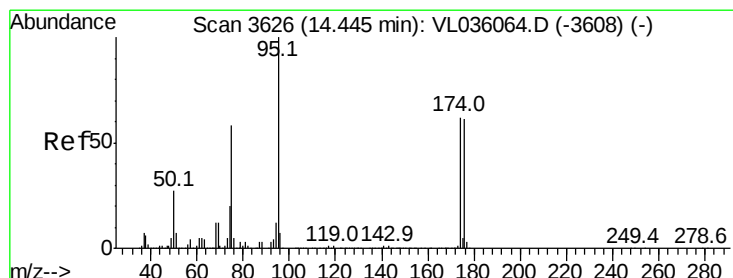
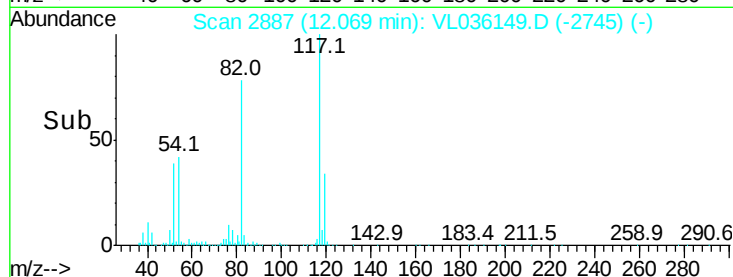
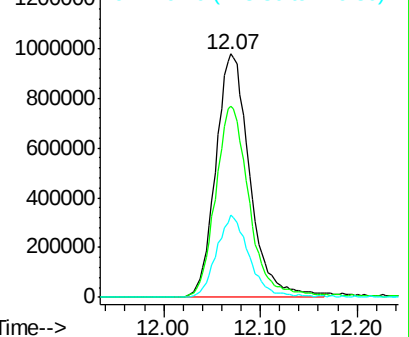
119 32.5 0.0 0.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.892 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.04 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

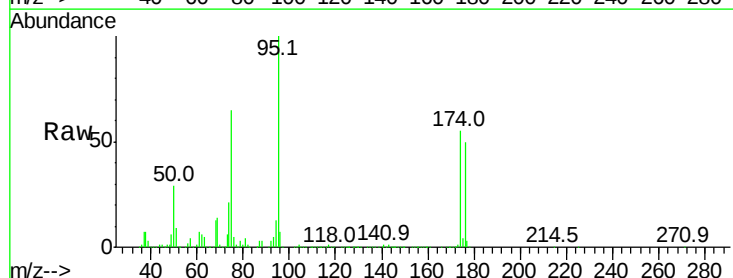
Tgt Ion: 95 Resp: 2064136

Ion Ratio Lower Upper

95 100

174 54.3 50.7 76.1

175 3.9 4.0 6.0#



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

