

Data File : VL032574.D
Acq On : 28 Sep 2018 7:20
Operator : SY/AP
Sample : J5094-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
KIA-1DL

Quant Time: Sep 28 07:48:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 05:17:15 2018
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1393739	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3034922	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3014356	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2303279	10.13	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

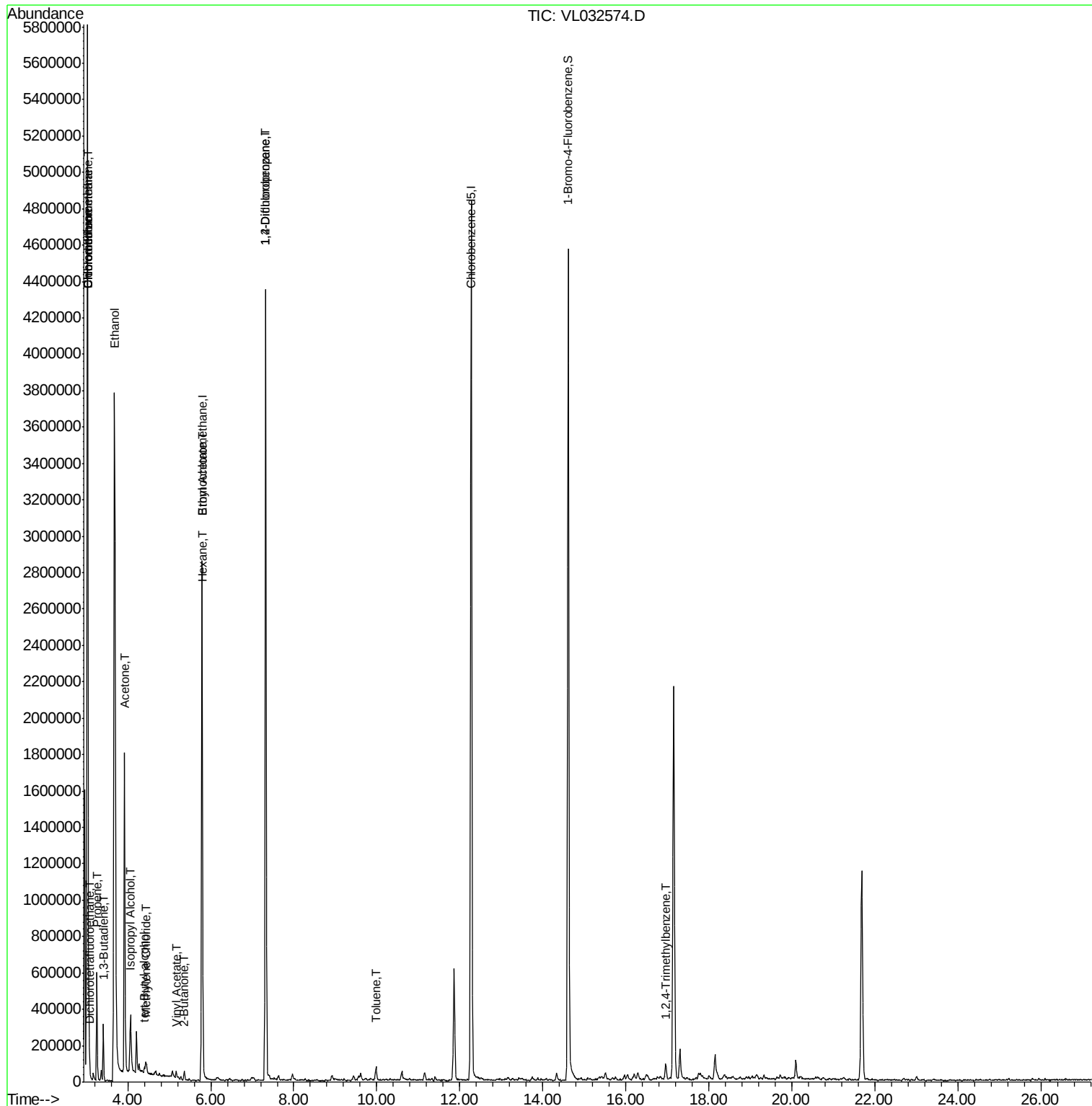
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.03	85	121795	0.945	ppbv	93
3) Chlorodifluoromethane	3.03	51	7280650	62.817	ppbv	98
4) Chloromethane	3.03	50	431089	6.379	ppbv #	77
8) Dichlorotetrafluoroethane	3.09	85	14925	0.106	ppbv #	21
9) Propene	3.25	41	141742	2.819	ppbv	92
13) Ethanol	3.68	45	6052043	400.381	ppbv	96
15) Acetone	3.92	43	1706671	13.950	ppbv	100
16) 1,3-Butadiene	3.41	39	33935	0.684	ppbv #	2
17) tert-Butyl alcohol	4.40	59	7295	0.475	ppbv #	100
19) Isopropyl Alcohol	4.07	45	429933	5.045	ppbv #	1
20) Methylene Chloride	4.43	84	15150	0.256	ppbv	97
23) Vinyl Acetate	5.18	43	7129	0.033	ppbv #	89
25) Ethyl Acetate	5.79	43	76736	0.258	ppbv #	88
26) Hexane	5.80	57	7957	0.059	ppbv #	1
34) 2-Butanone	5.36	43	25618	0.142	ppbv #	54
39) 1,2-Dichloropropane	7.32	63	827862	7.490	ppbv #	24
53) Toluene	9.98	91	44904	0.150	ppbv	98
74) 1,2,4-Trimethylbenzene	16.95	105	16603	0.046	ppbv #	69

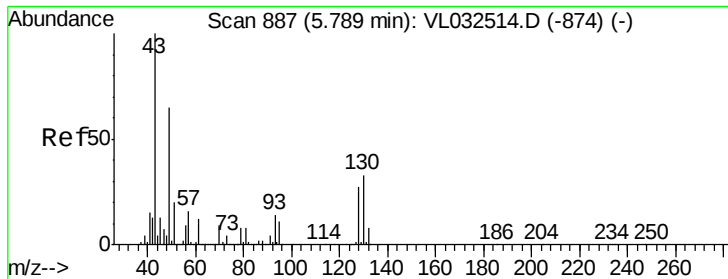
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Instrument :

MSVOA_L

ClientSampleId :

KIA-1DL

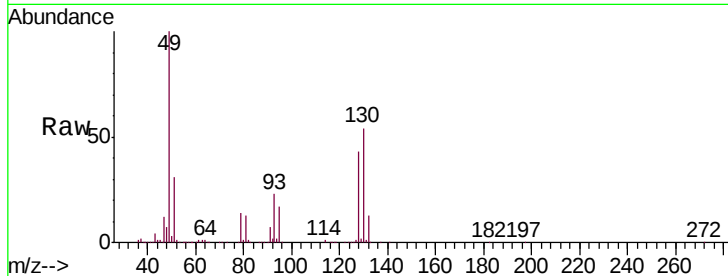
Tgt Ion: 49 Resp: 1393739

Ion Ratio Lower Upper

49 100

128 43.8 20.7 62.1

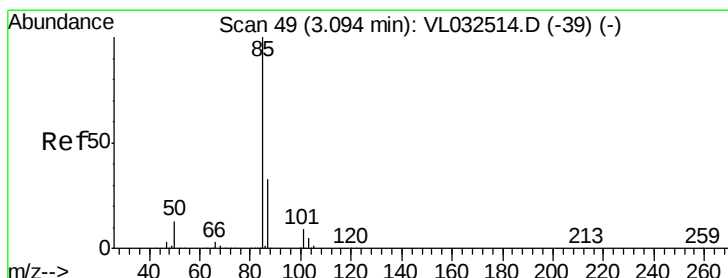
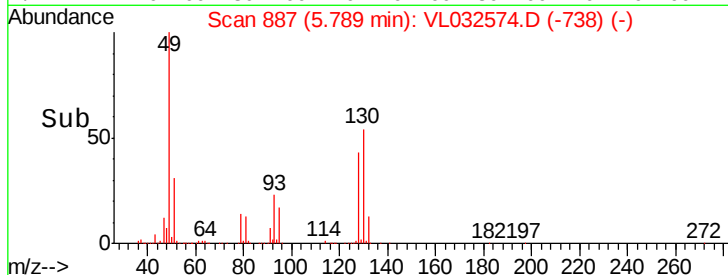
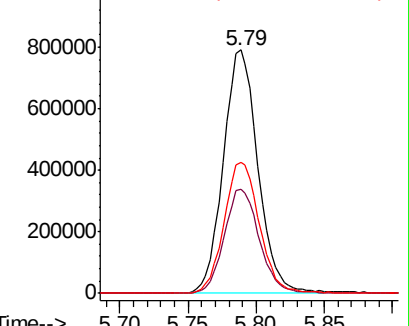
130 55.3 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.945 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.08 min

Lab File: VL032574.D

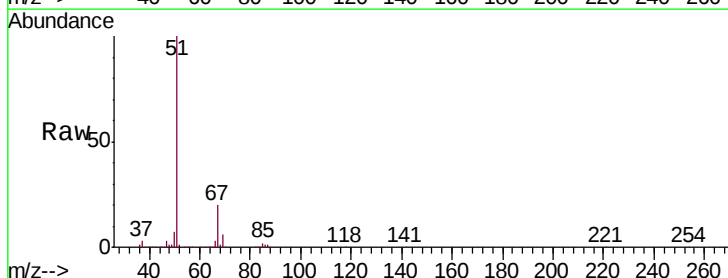
Acq: 28 Sep 2018 7:20

Tgt Ion: 85 Resp: 121795

Ion Ratio Lower Upper

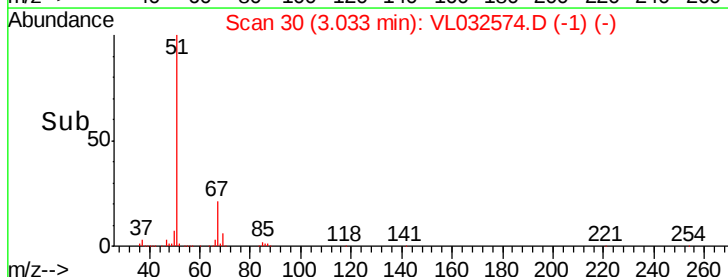
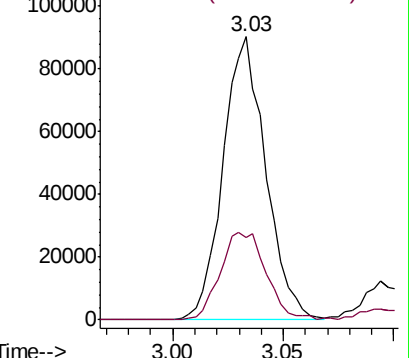
85 100

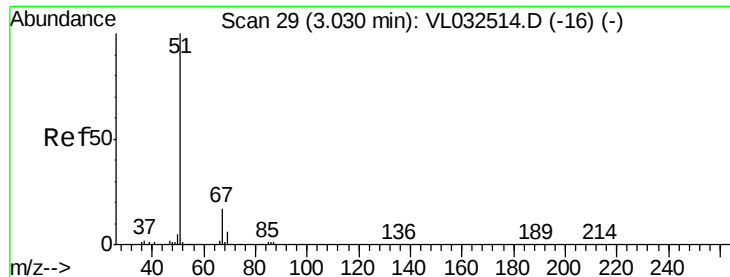
87 29.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 62.817 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Instrument :

MSVOA_L

ClientSampleId :

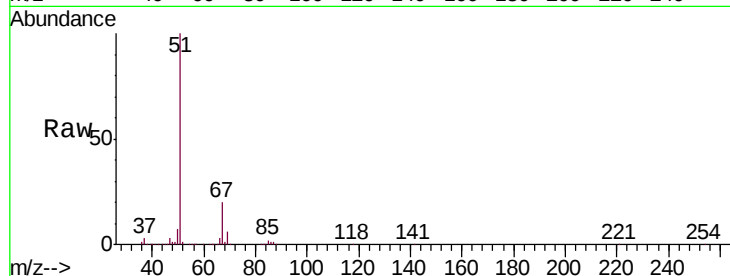
KIA-1DL

Tgt Ion: 51 Resp: 7280650

Ion Ratio Lower Upper

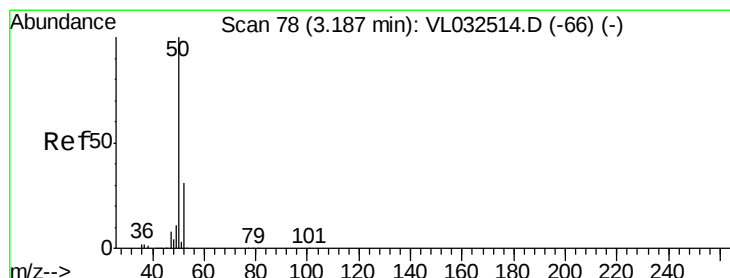
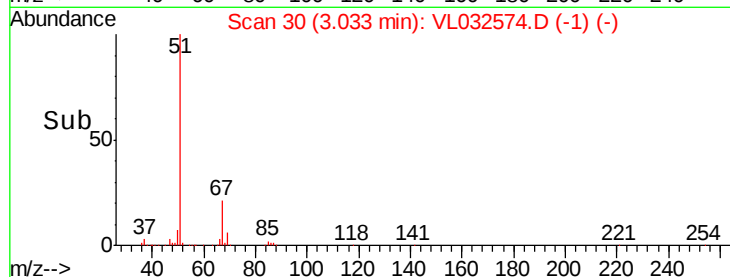
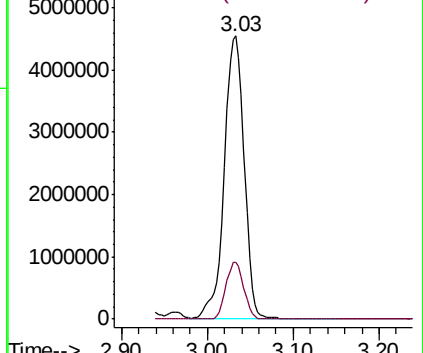
51 100

67 18.1 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 6.379 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.17 min

Lab File: VL032574.D

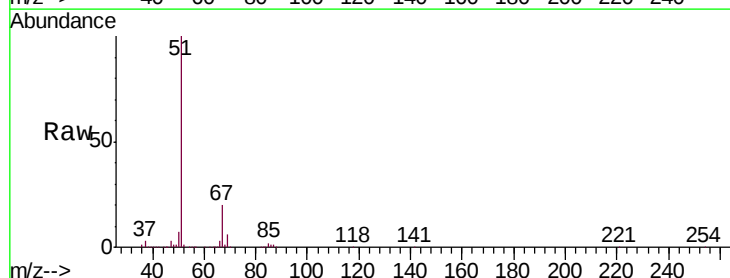
Acq: 28 Sep 2018 7:20

Tgt Ion: 50 Resp: 431089

Ion Ratio Lower Upper

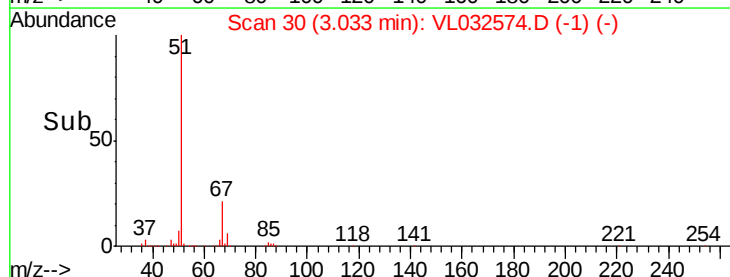
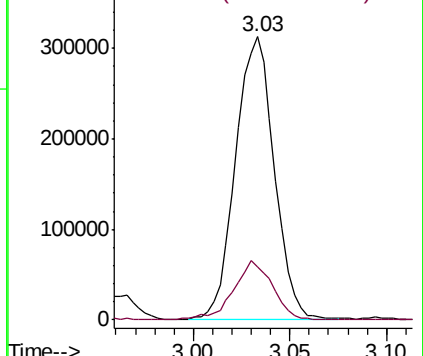
50 100

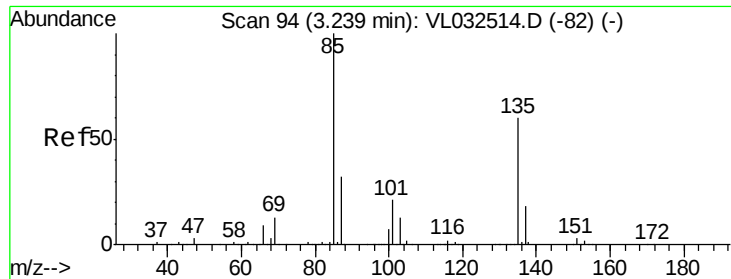
52 18.9 25.6 38.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.106 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.16 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Instrument :

MSVOA_L

ClientSampleId :

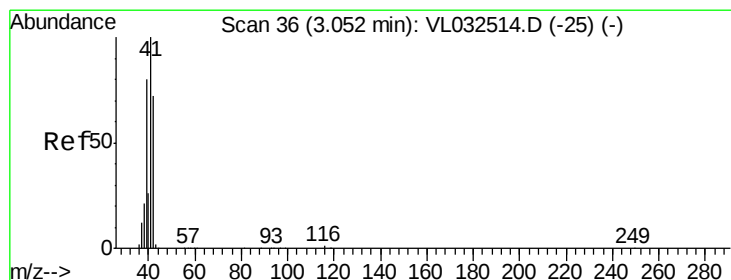
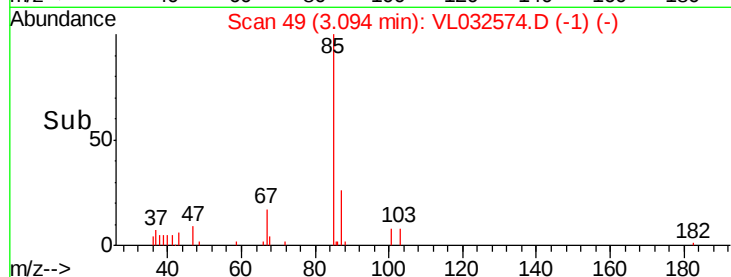
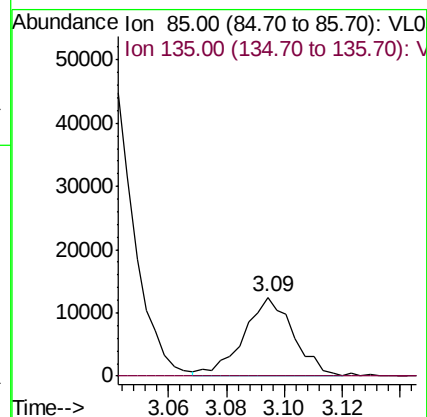
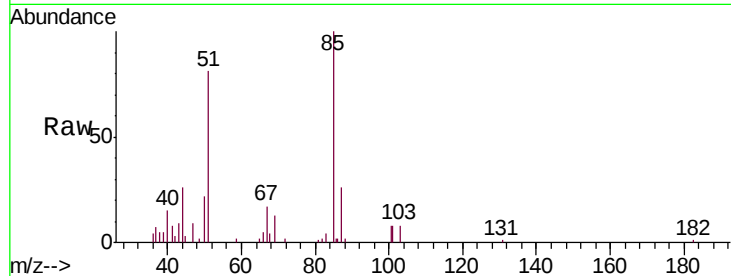
KIA-1DL

Tgt Ion: 85 Resp: 14925

Ion Ratio Lower Upper

85 100

135 0.9 48.6 72.8#



#9

Propene

Concen: 2.819 ppbv

RT: 3.25 min Scan# 99

Delta R.T. 0.19 min

Lab File: VL032574.D

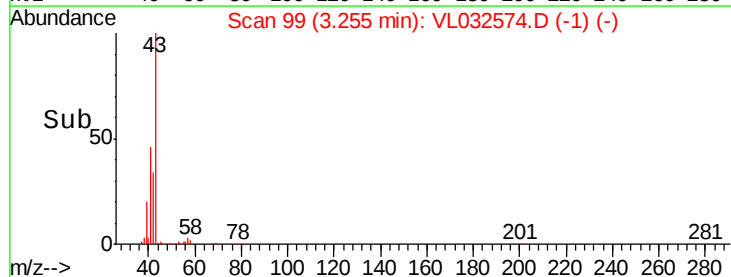
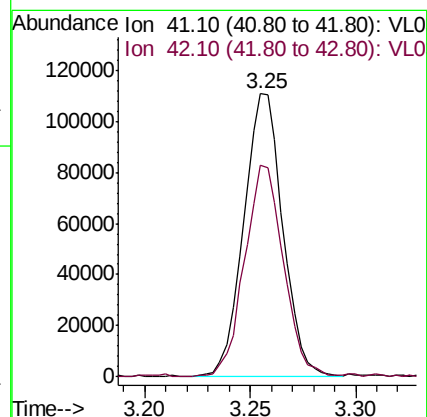
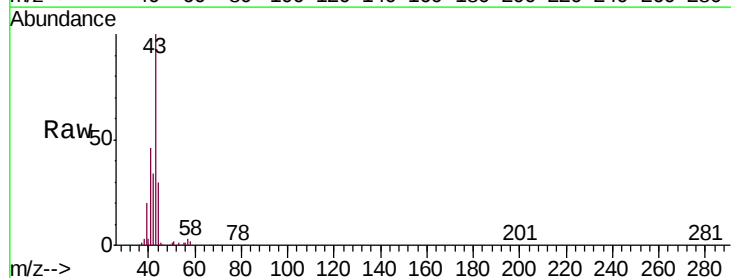
Acq: 28 Sep 2018 7:20

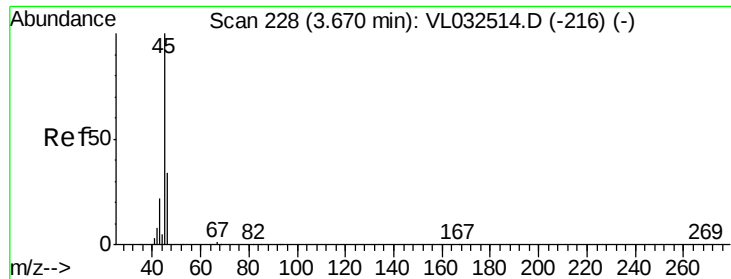
Tgt Ion: 41 Resp: 141742

Ion Ratio Lower Upper

41 100

42 76.9 56.6 84.8





#13

Ethanol

Concen: 400.381 ppbv

RT: 3.68 min Scan# 231

Delta R.T. -0.01 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Instrument :

MSVOA_L

ClientSampleId :

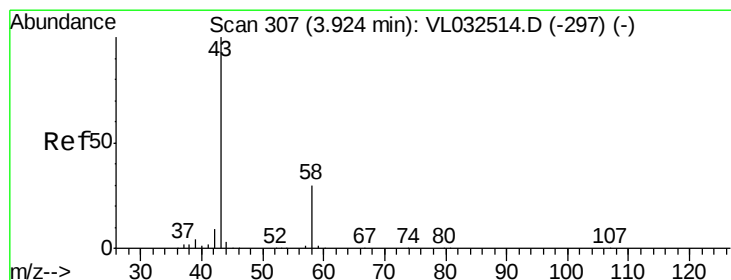
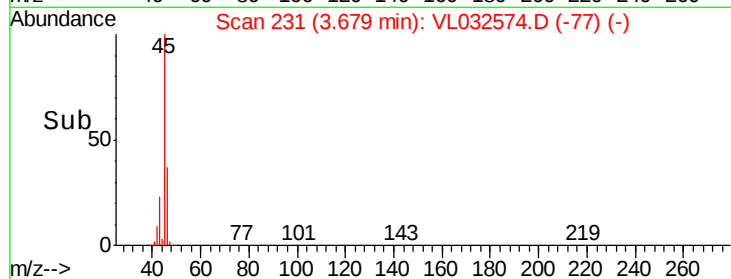
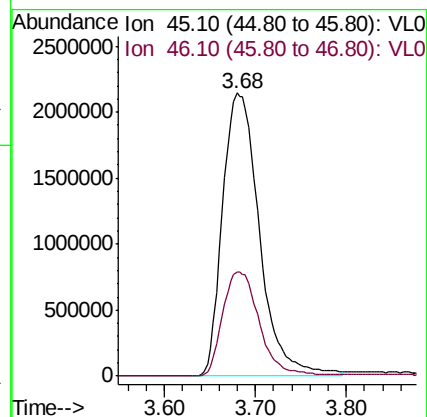
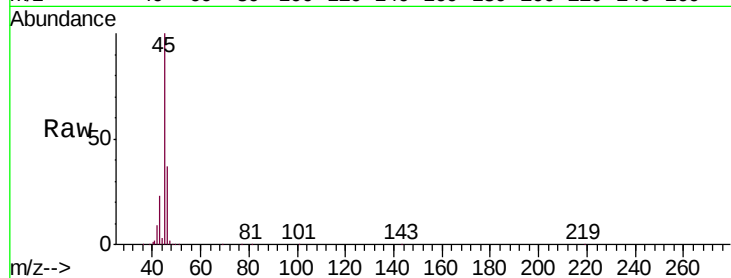
KIA-1DL

Tgt Ion: 45 Resp: 6052043

Ion Ratio Lower Upper

45 100

46 37.6 14.2 56.8



#15

Acetone

Concen: 13.950 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032574.D

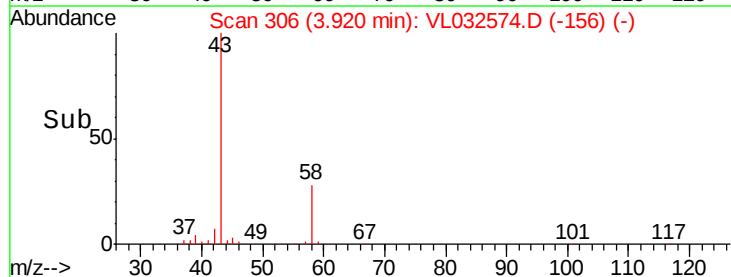
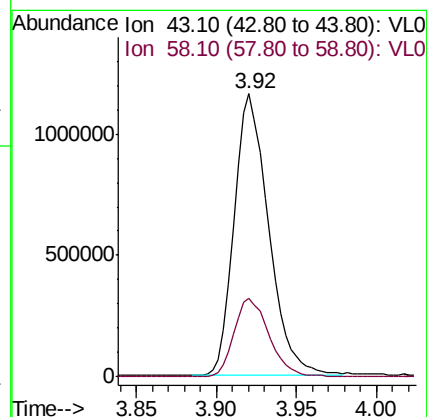
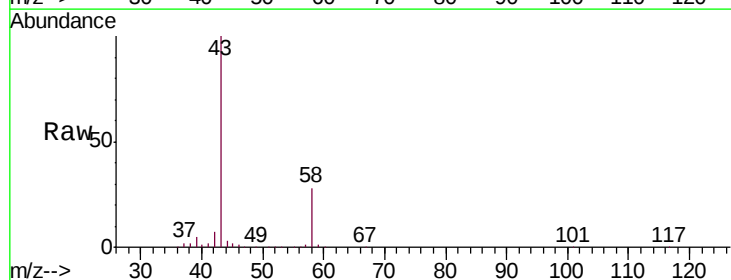
Acq: 28 Sep 2018 7:20

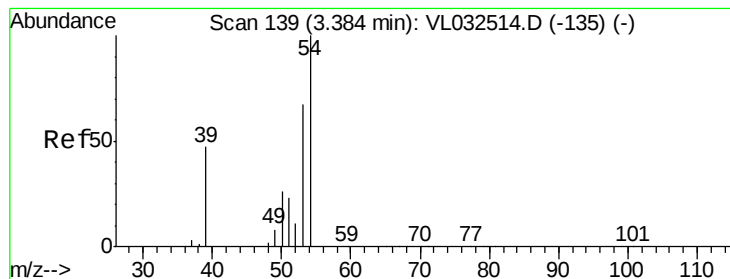
Tgt Ion: 43 Resp: 1706671

Ion Ratio Lower Upper

43 100

58 28.4 22.6 33.8





#16

1,3-Butadiene

Concen: 0.684 ppbv

RT: 3.41 min Scan# 148

Delta R.T. 0.01 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Instrument :

MSVOA_L

ClientSampleId :

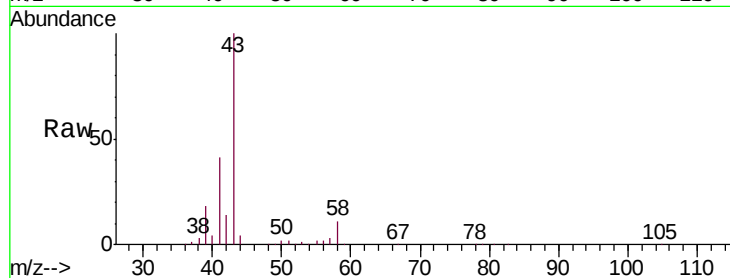
KIA-1DL

Tgt Ion: 39 Resp: 33935

Ion Ratio Lower Upper

39 100

54 2.6 80.8 121.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.41

25000

20000

15000

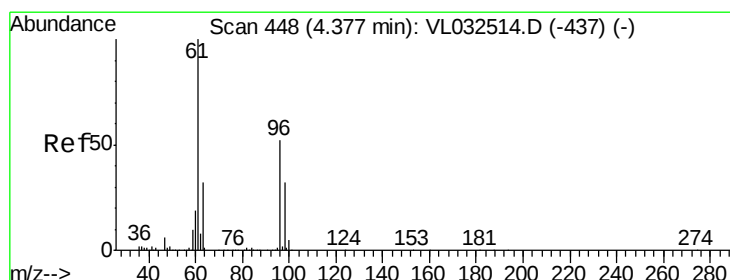
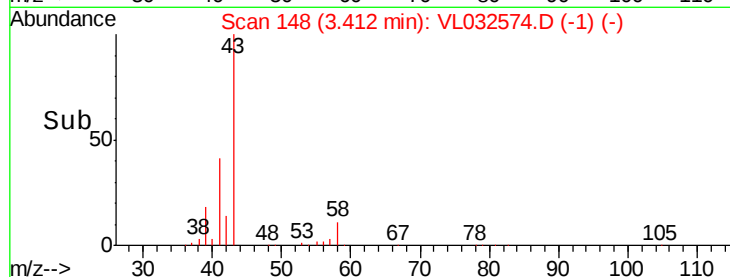
10000

5000

0

Time-->

3.40 3.45



#17

tert-Butyl alcohol

Concen: 0.475 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL032574.D

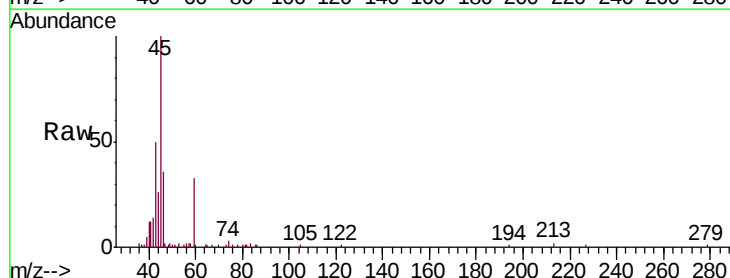
Acq: 28 Sep 2018 7:20

Tgt Ion: 59 Resp: 7295

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

10000

8000

6000

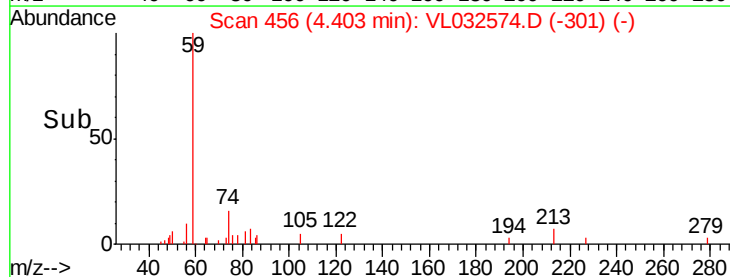
4000

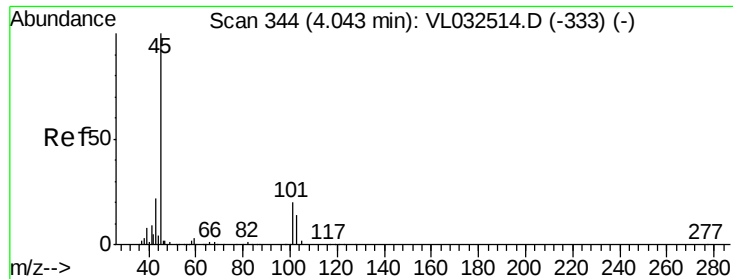
2000

0

Time-->

4.37 4.38 4.39 4.40 4.41





#19

Isopropyl Alcohol

Concen: 5.045 ppbv

RT: 4.07 min Scan# 351

Delta R.T. 0.00 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Instrument :

MSVOA_L

ClientSampleId :

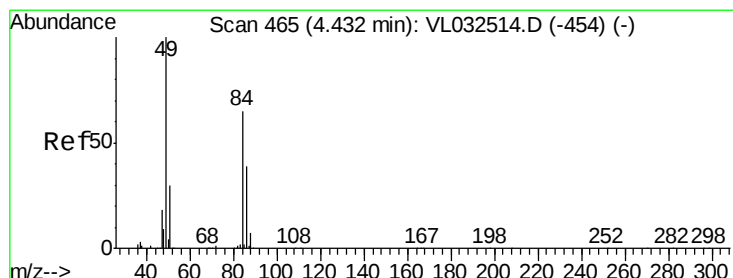
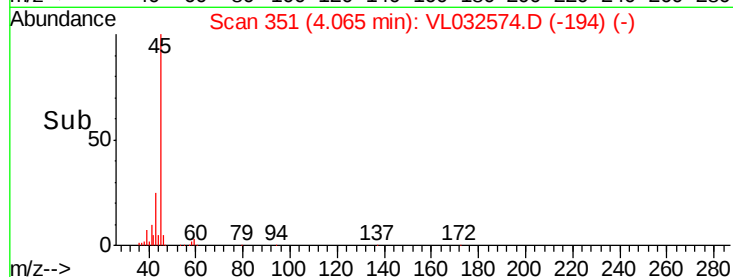
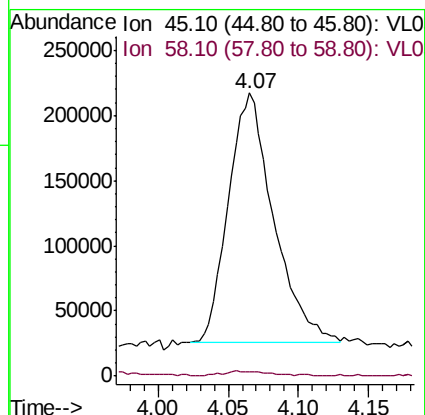
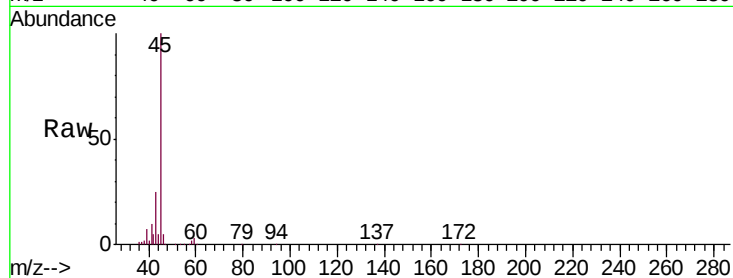
KIA-1DL

Tgt Ion: 45 Resp: 429933

Ion Ratio Lower Upper

45 100

58 113.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.256 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Tgt Ion: 84 Resp: 15150

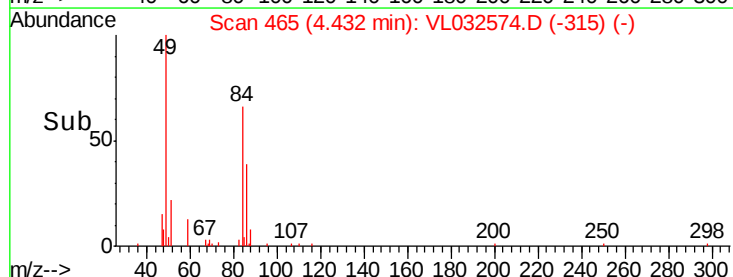
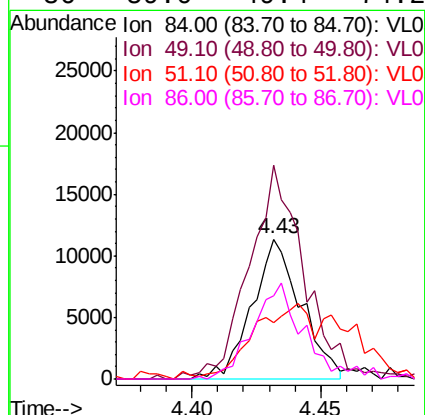
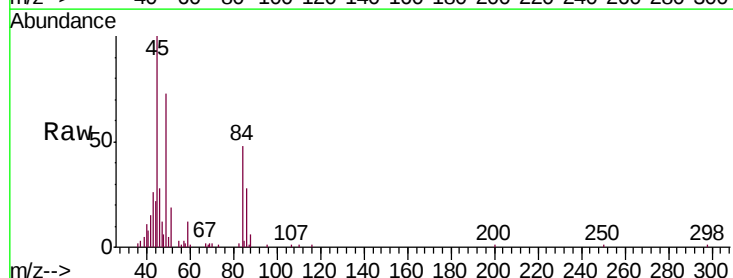
Ion Ratio Lower Upper

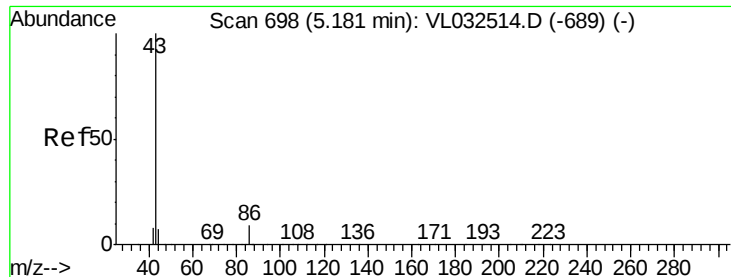
84 100

49 150.0 119.1 178.7

51 37.6 35.2 52.8

86 59.0 49.4 74.2





#23

Vinyl Acetate

Concen: 0.033 ppbv

RT: 5.18 min Scan# 698

Delta R.T. -0.02 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Instrument :

MSVOA_L

ClientSampleId :

KIA-1DL

Tgt Ion: 43 Resp: 7129

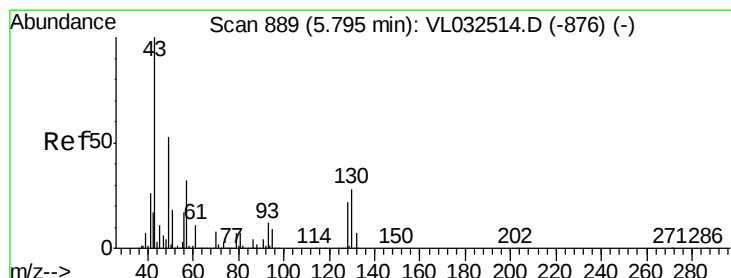
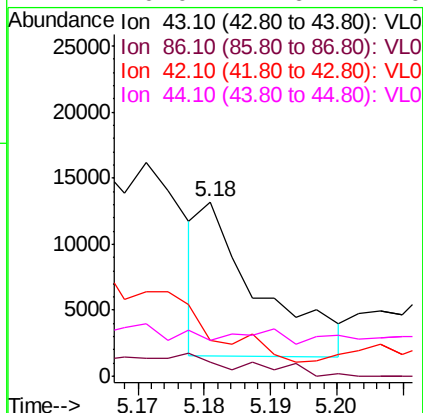
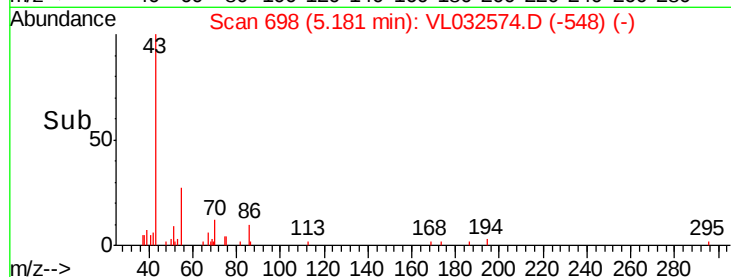
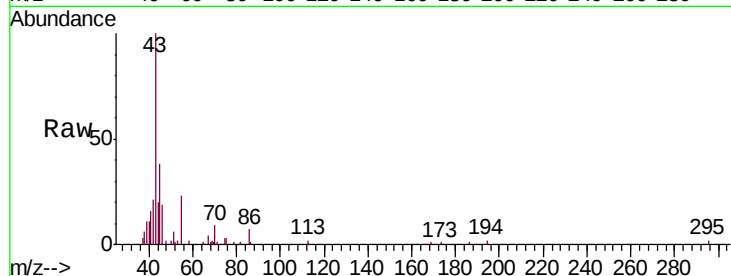
Ion Ratio Lower Upper

43 100

86 10.1 5.9 8.9#

42 12.1 6.9 10.3#

44 0.0 4.6 7.0#



#25

Ethyl Acetate

Concen: 0.258 ppbv

RT: 5.79 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Tgt Ion: 43 Resp: 76736

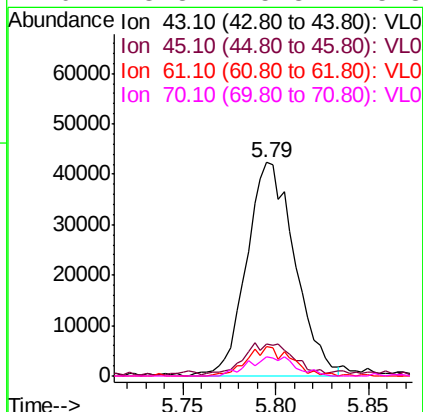
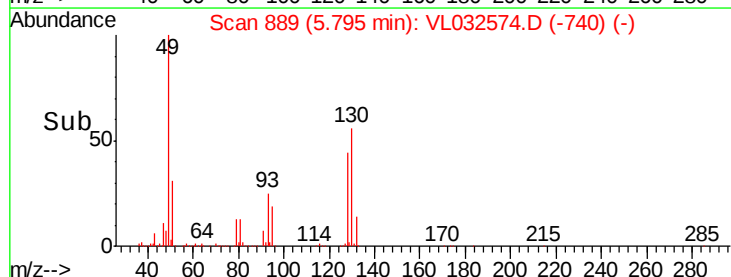
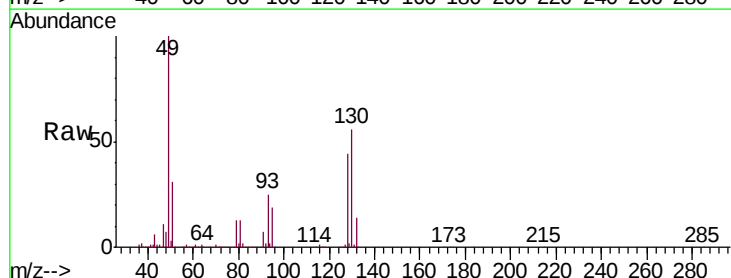
Ion Ratio Lower Upper

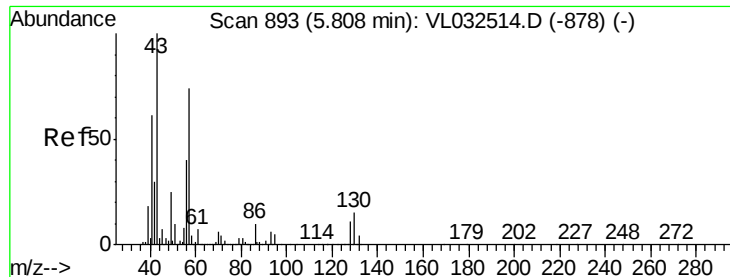
43 100

45 17.5 8.0 12.0#

61 12.8 7.6 11.4#

70 8.8 5.8 8.8#

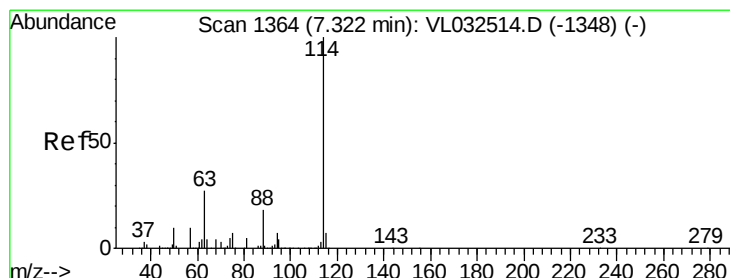
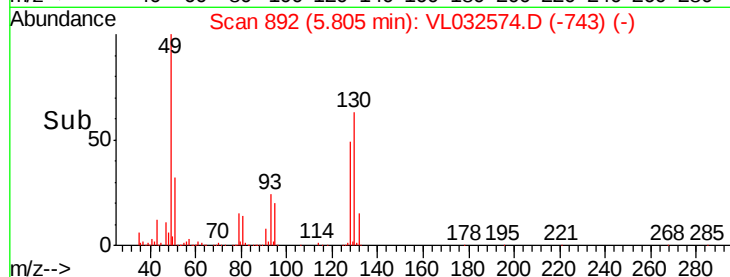
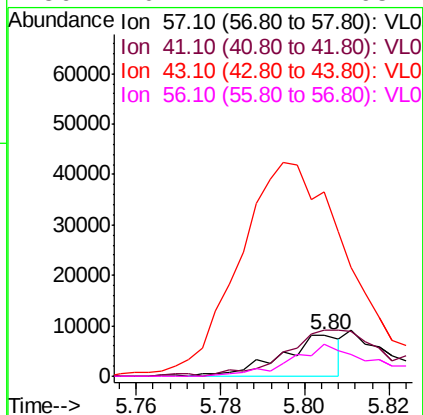
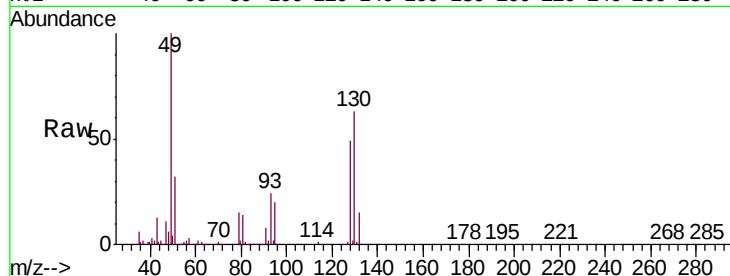




#26
Hexane
Concen: 0.059 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032574.D
Acq: 28 Sep 2018 7:20

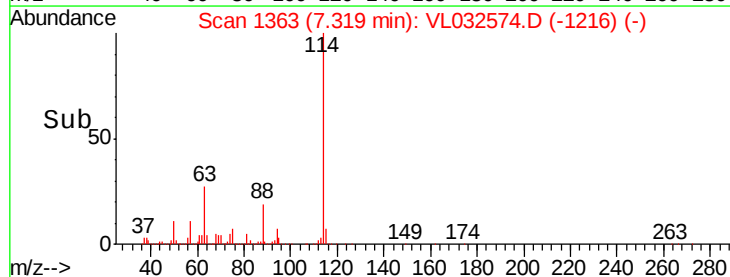
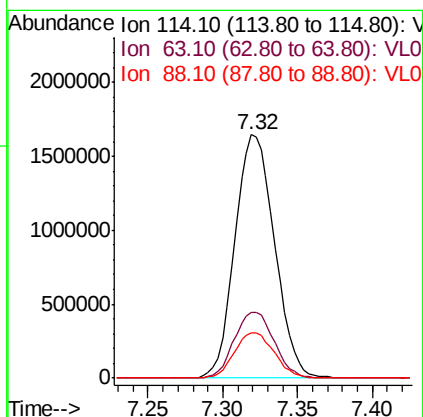
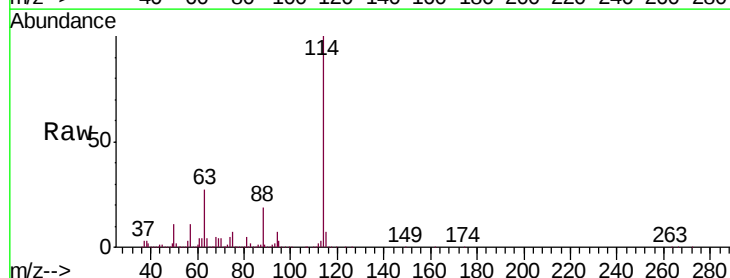
Instrument :
MSVOA_L
ClientSampleId :
KIA-1DL

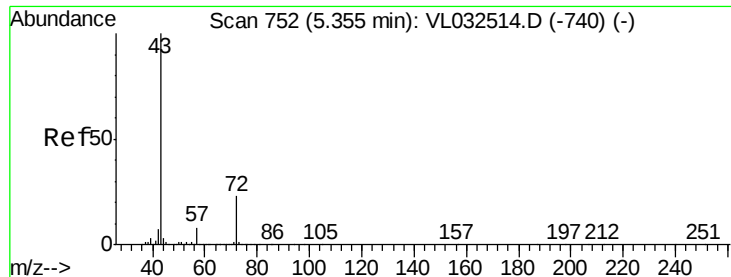
Tgt Ion: 57 Resp: 7957
Ion Ratio Lower Upper
57 100
41 0.0 69.0 103.4#
43 983.3 172.1 258.1#
56 110.1 42.2 63.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.32 min Scan# 1363
Delta R.T. -0.03 min
Lab File: VL032574.D
Acq: 28 Sep 2018 7:20

Tgt Ion: 114 Resp: 3034922
Ion Ratio Lower Upper
114 100
63 27.4 22.2 33.4
88 18.9 15.0 22.4

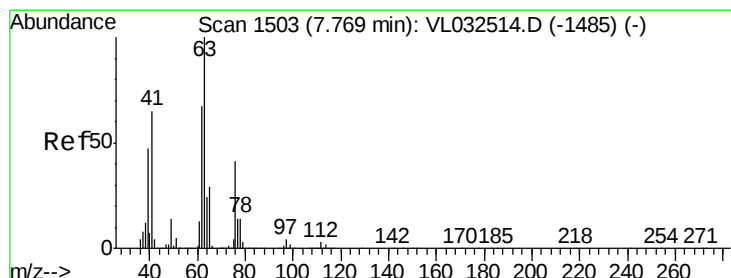
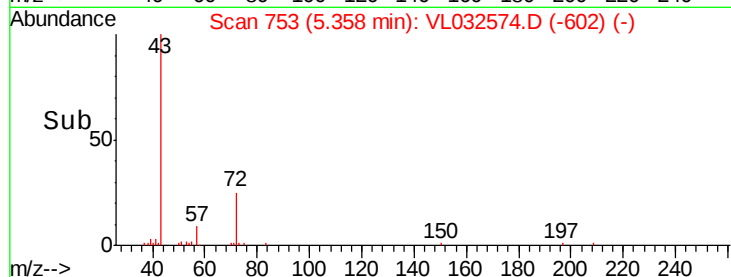
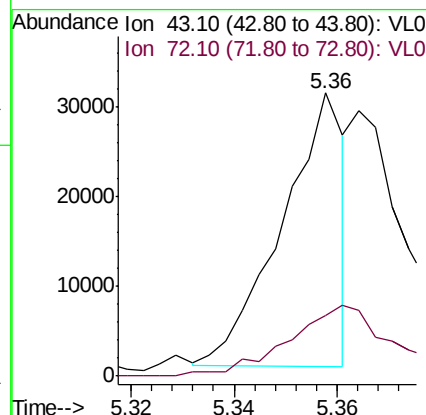
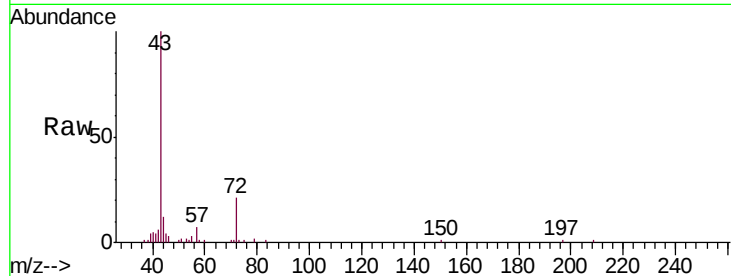




#34
 2-Butanone
 Concen: 0.142 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.02 min
 Lab File: VL032574.D
 Acq: 28 Sep 2018 7:20

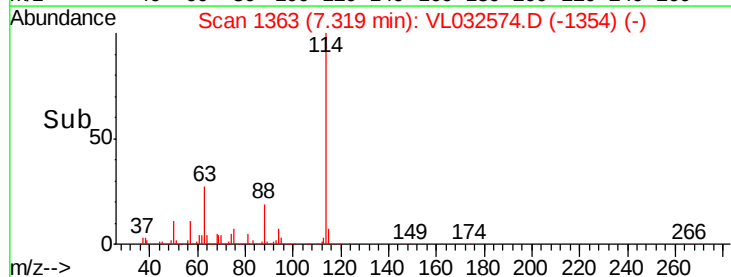
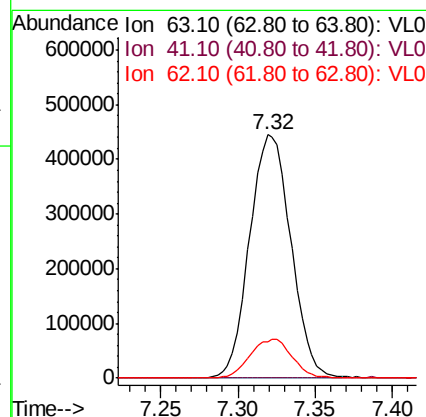
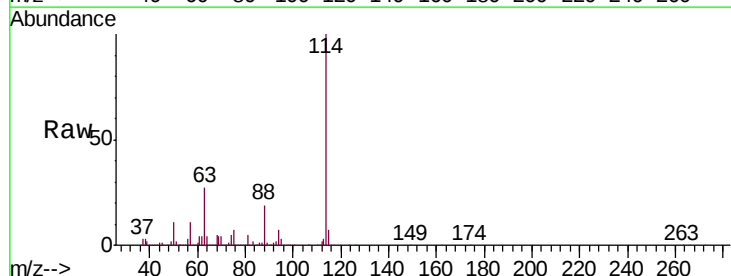
Instrument :
 MSVOA_L
 ClientSampleId :
 KIA-1DL

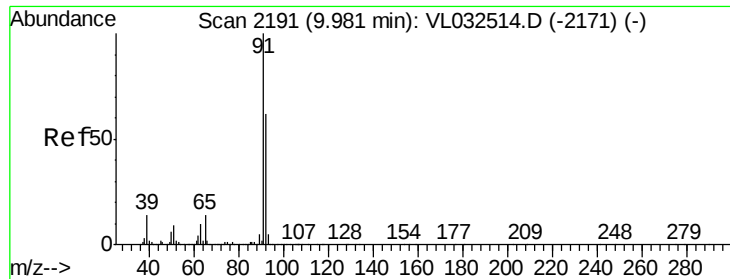
Tgt Ion: 43 Resp: 25618
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.8 26.6#



#39
 1,2-Dichloropropane
 Concen: 7.490 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.47 min
 Lab File: VL032574.D
 Acq: 28 Sep 2018 7:20

Tgt Ion: 63 Resp: 827862
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.4 83.0#
 62 15.1 55.4 83.0#





#53

Toluene

Concen: 0.150 ppbv

RT: 9.98 min Scan# 2191

Delta R.T. -0.02 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Instrument :

MSVOA_L

ClientSampleId :

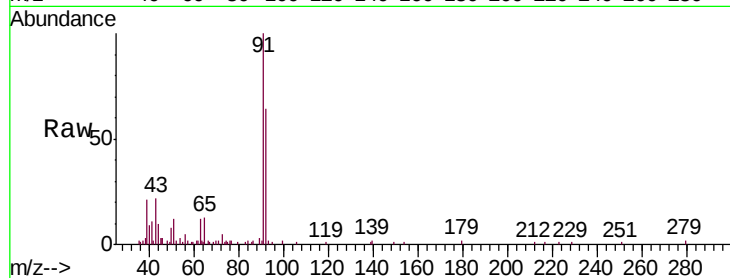
KIA-1DL

Tgt Ion: 91 Resp: 44904

Ion Ratio Lower Upper

91 100

92 61.8 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.98

25000

20000

15000

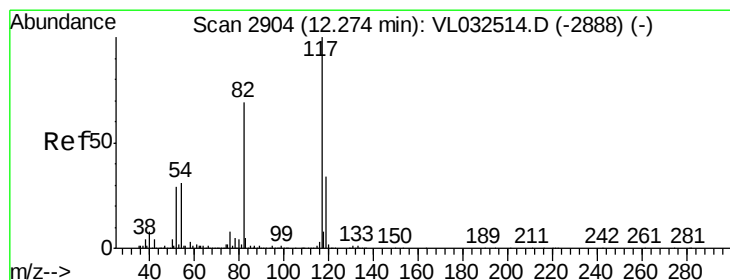
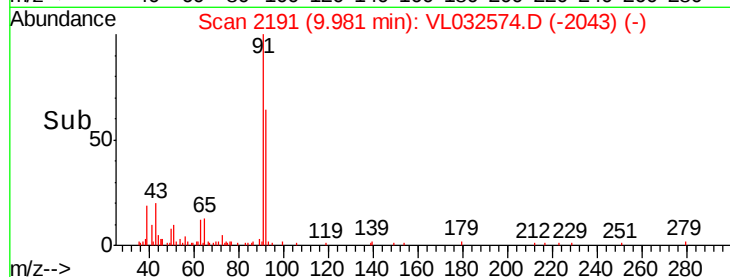
10000

5000

0

Time-->

9.90 9.95 10.00



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.02 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

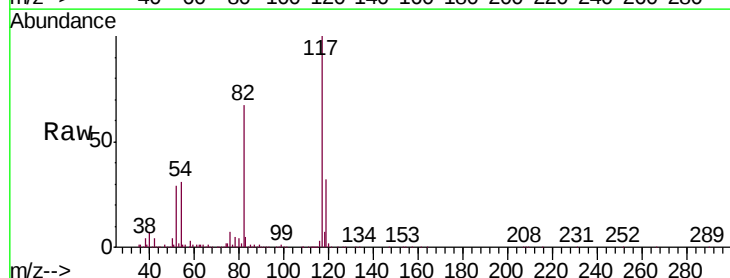
Tgt Ion: 117 Resp: 3014356

Ion Ratio Lower Upper

117 100

82 67.3 53.0 79.6

119 32.2 45.9 68.9#



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

12.27

1500000

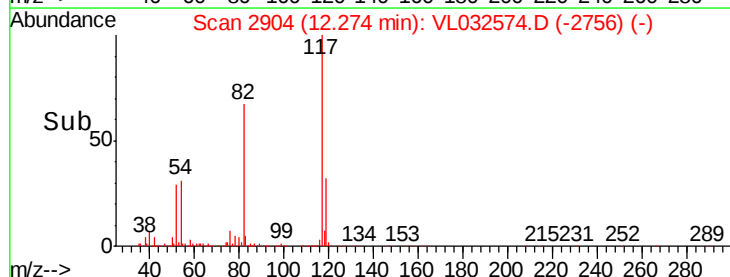
1000000

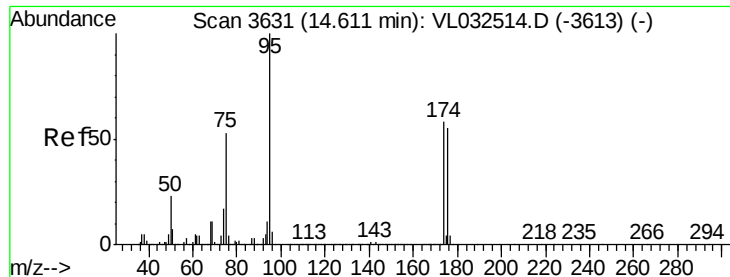
500000

0

Time-->

12.20 12.30





#68

1-Bromo-4-Fluorobenzene

Concen: 10.132 ppbv

RT: 14.61 min Scan# 3631

Delta R.T. -0.02 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Instrument :

MSVOA_L

ClientSampleId :

KIA-1DL

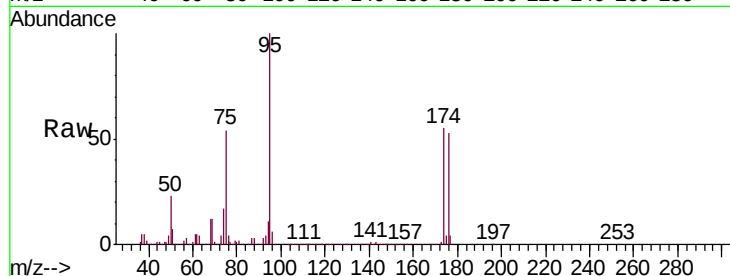
Tgt Ion: 95 Resp: 2303279

Ion Ratio Lower Upper

95 100

174 57.4 46.3 69.5

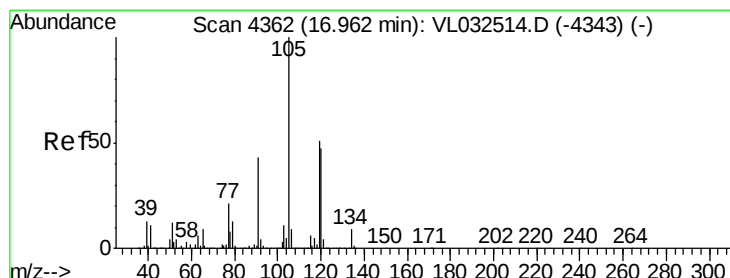
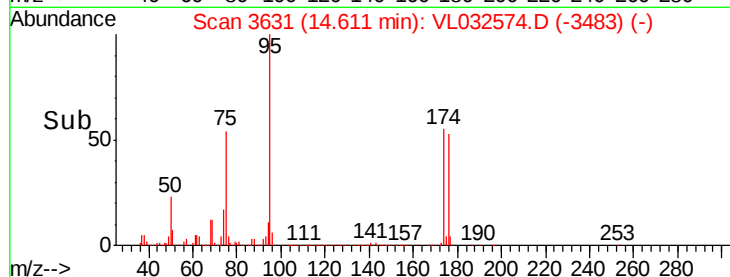
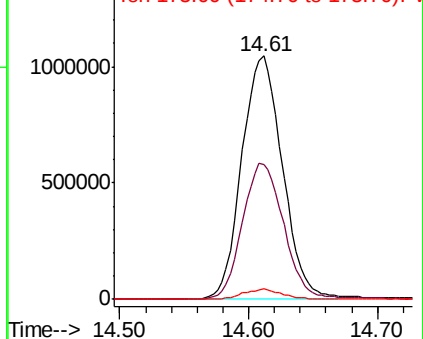
175 4.0 3.4 5.0



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



#74

1,2,4-Trimethylbenzene

Concen: 0.046 ppbv

RT: 16.95 min Scan# 4358

Delta R.T. -0.03 min

Lab File: VL032574.D

Acq: 28 Sep 2018 7:20

Tgt Ion: 105 Resp: 16603

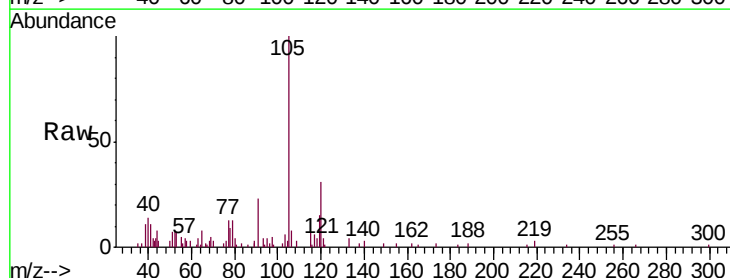
Ion Ratio Lower Upper

105 100

120 31.7 37.8 56.8#

91 21.3 41.4 62.0#

77 12.9 18.6 28.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

