

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060320\
 Data File : VN061640.D
 Acq On : 3 Jun 2020 15:56
 Operator : JC/MD
 Sample : L2840-04 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TOTE-OIL

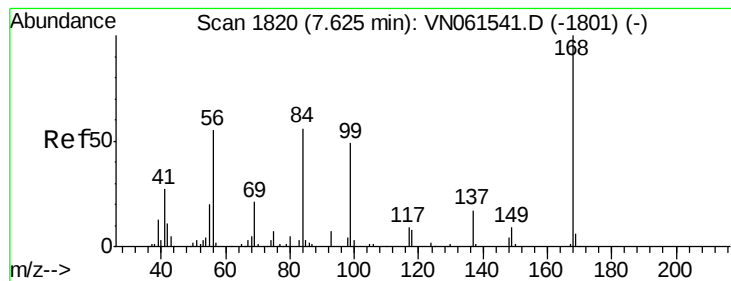
Quant Time: Jun 04 07:48:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	289082	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	502802	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	488655	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	220440	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	168542	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
35) Dibromofluoromethane	7.55	113	140282	55.00	ug/l	0.00
Spiked Amount			Recovery	=	110.00%	
50) Toluene-d8	10.06	98	603300	51.04	ug/l	0.00
Spiked Amount			Recovery	=	102.08%	
62) 4-Bromofluorobenzene	12.38	95	219810	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	148	0.323	ug/l #	72
16) Acetone	3.78	43	1420	Below Cal		98
20) Methylene Chloride	4.50	84	293	Below Cal	#	2
25) 2-Butanone	6.79	43	404	0.248	ug/l #	42
31) Cyclohexane	7.63	56	5339	1.100	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	20851	4.684	ug/l #	48
38) Carbon Tetrachloride	7.63	117	28612	6.664	ug/l #	16
40) Benzene	8.01	78	3951	0.288	ug/l #	85
52) Toluene	10.12	92	13657	1.524	ug/l	98
71) Bromoform	12.38	173	1632	0.560	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	107595	26.842	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	107595	68.642	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

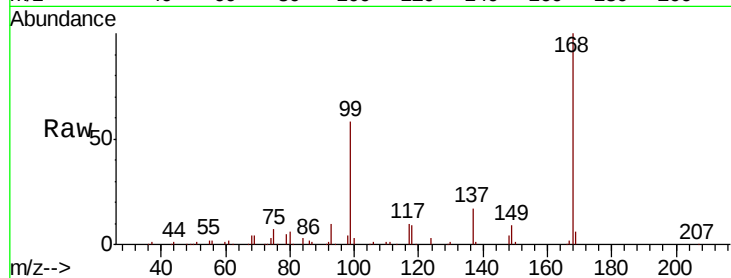
TOTE-OIL

Tot Ion:168 Resp: 289082

Ion Ratio Lower Upper

168 100

99 58.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

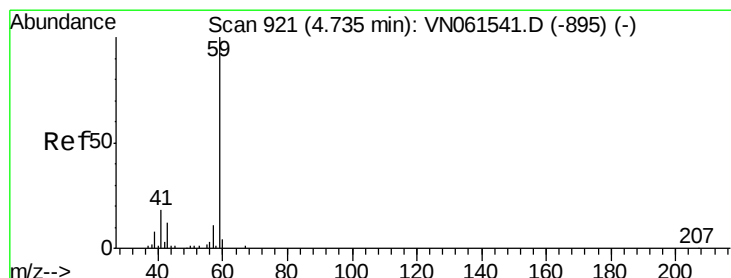
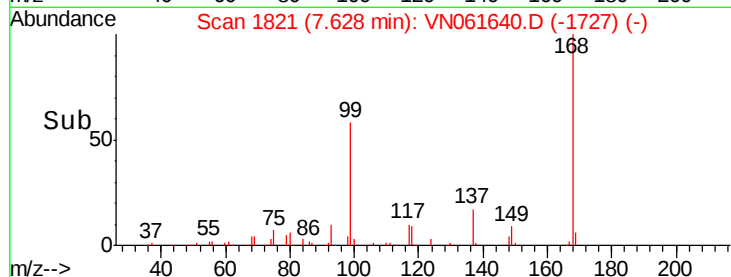
7.63

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.323 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN061640.D

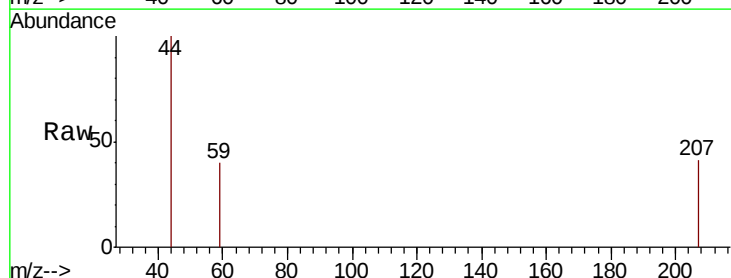
Acq: 3 Jun 2020 15:56

Tgt Ion: 59 Resp: 148

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

250

200

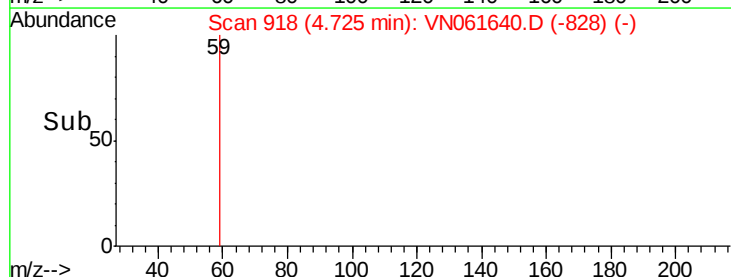
150

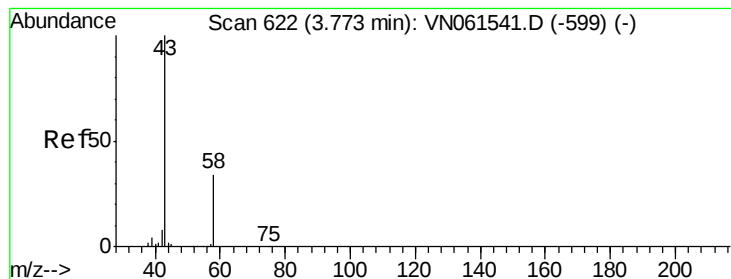
100

50

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

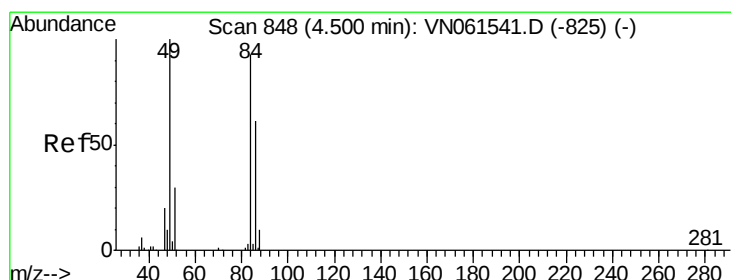
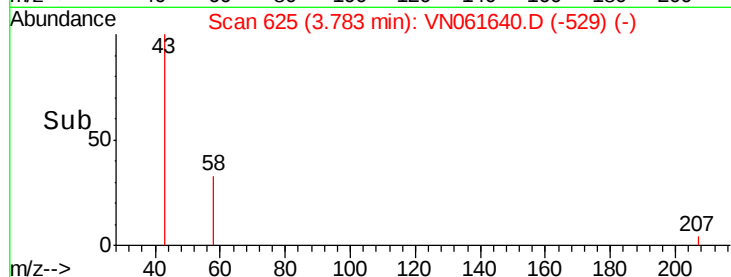
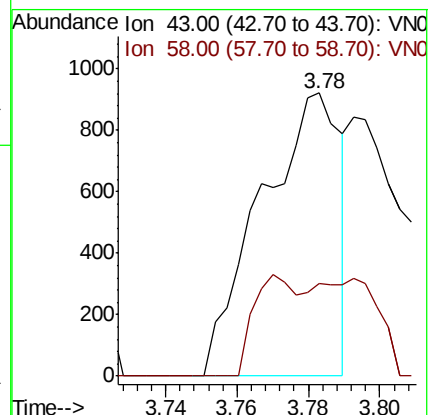
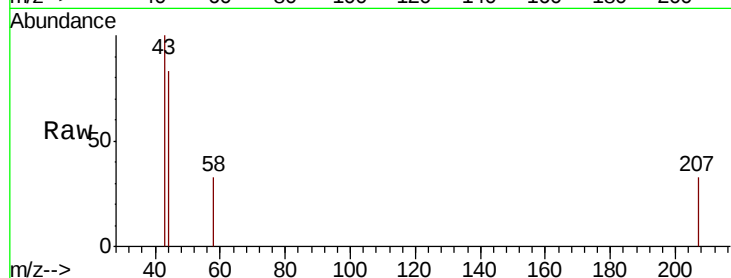
Instrument :
MSVOA_N
ClientSampled :
TOTE-OIL

Tot Ion: 43 Resp: 1420

Ion Ratio Lower Upper

43 100

58 32.8 27.2 40.8



#20

Methylene Chloride

Concen: Below Cal

RT: 4.50 min Scan# 848

Delta R.T. 0.00 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

Tgt Ion: 84 Resp: 293

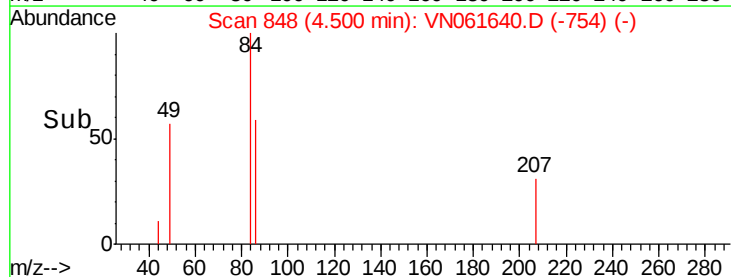
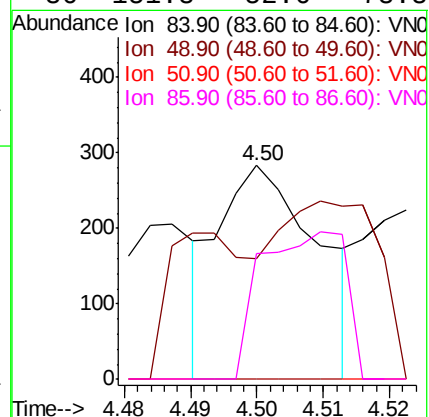
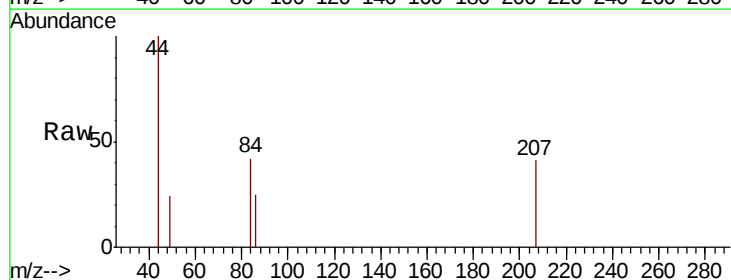
Ion Ratio Lower Upper

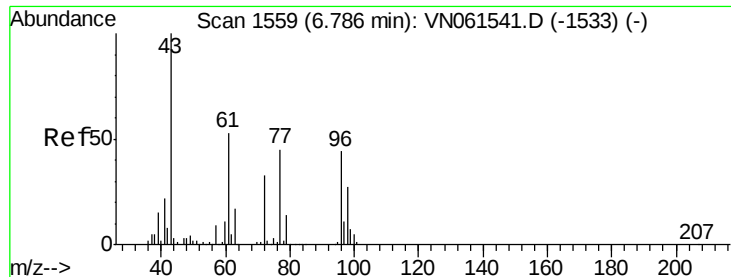
84 100

49 0.0 85.8 128.8#

51 0.0 26.2 39.2#

86 151.8 52.6 78.8#

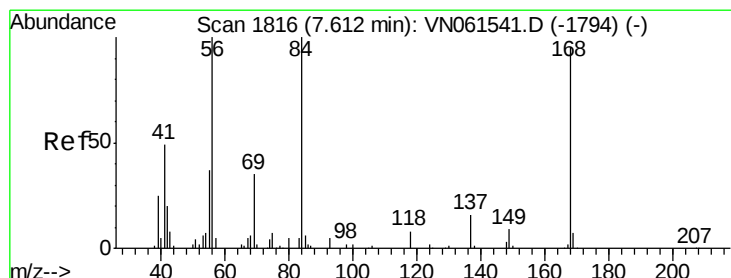
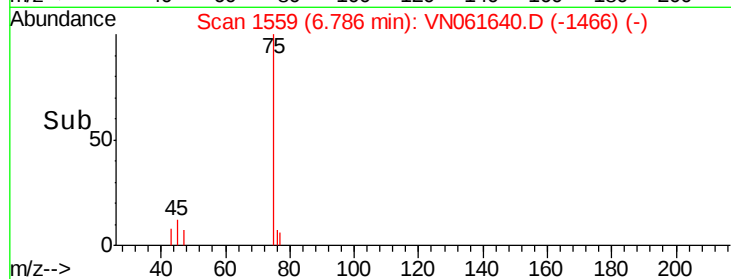
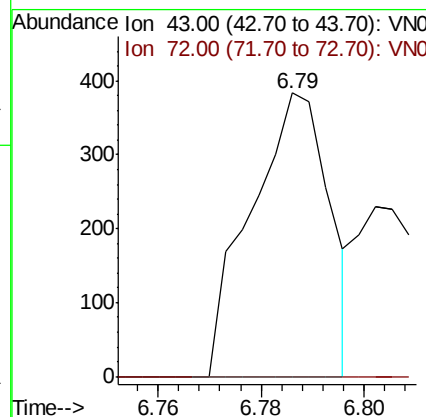
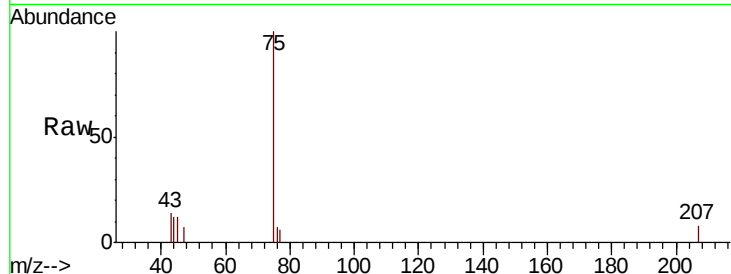




#25
2-Butanone
Concen: 0.248 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VN061640.D
Acq: 3 Jun 2020 15:56

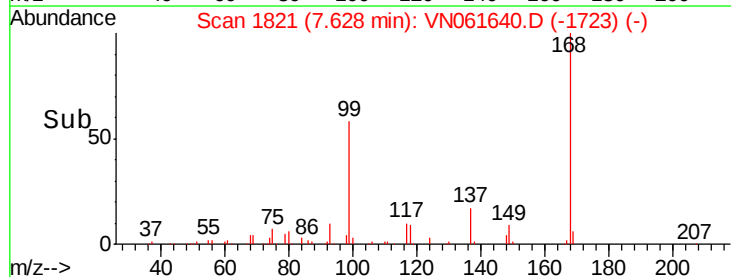
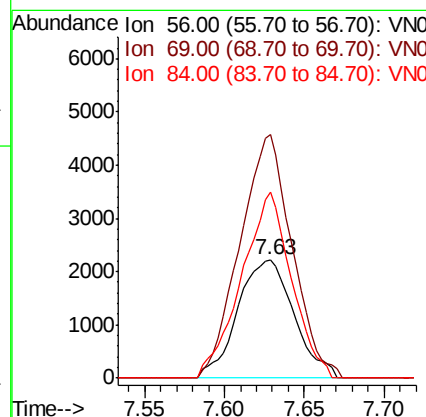
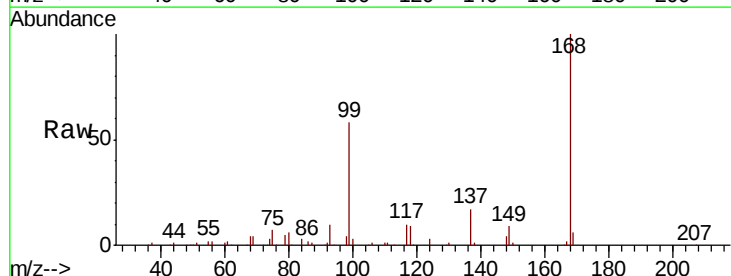
Instrument :
MSVOA_N
ClientSampled :
TOTE-OIL

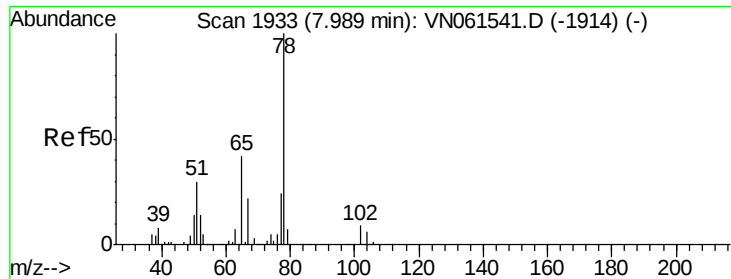
Tot Ion: 43 Resp: 404
Ion Ratio Lower Upper
43 100
72 0.0 26.0 39.0#



#31
Cyclohexane
Concen: 1.100 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN061640.D
Acq: 3 Jun 2020 15:56

Tgt Ion: 56 Resp: 5339
Ion Ratio Lower Upper
56 100
69 205.9 27.8 41.8#
84 156.9 79.9 119.9#





#33

1,2-Dichloroethane-d4

Concen: 48.935 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

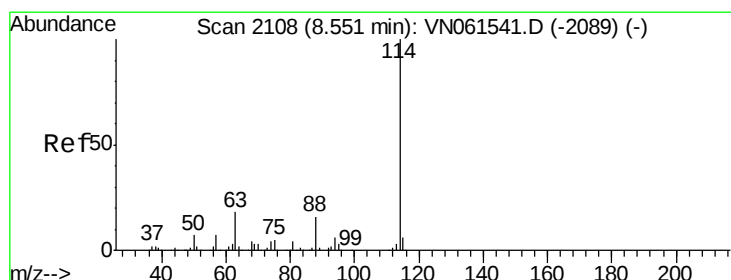
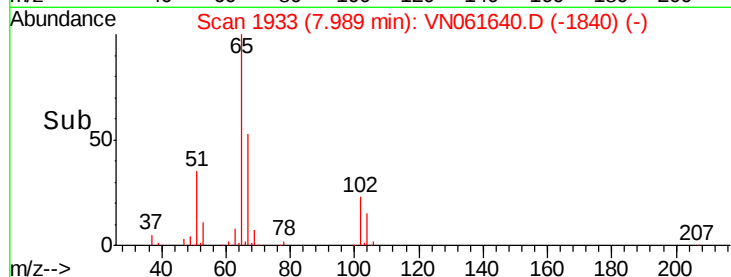
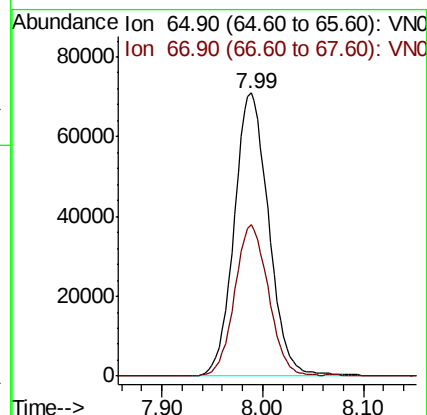
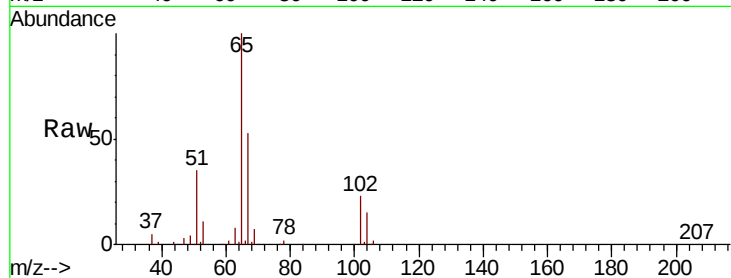
TOTE-OIL

Tot Ion: 65 Resp: 168542

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

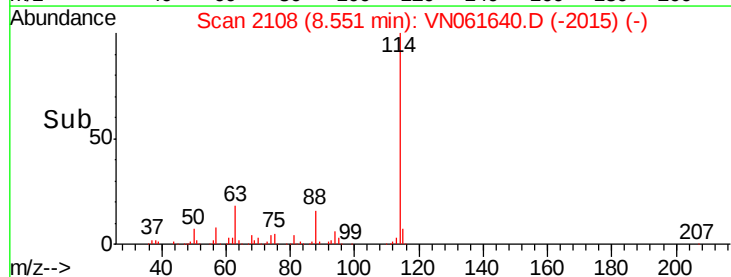
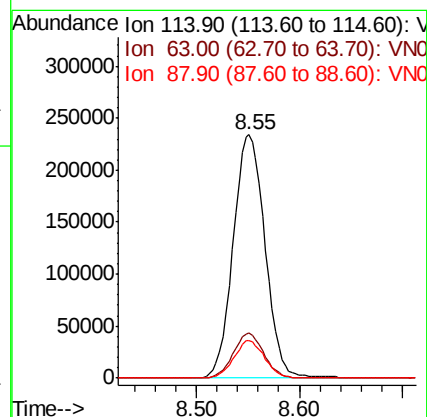
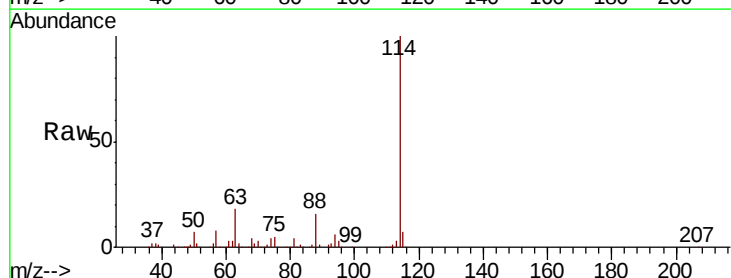
Tgt Ion: 114 Resp: 502802

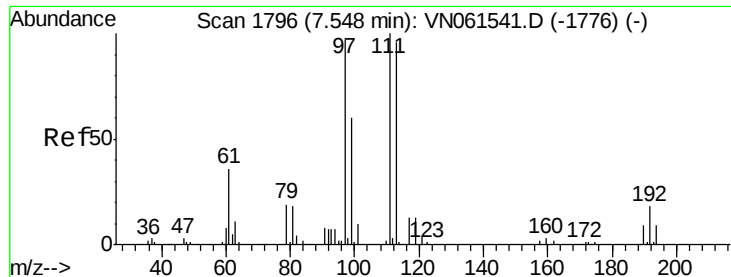
Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.8

88 15.6 0.0 31.0

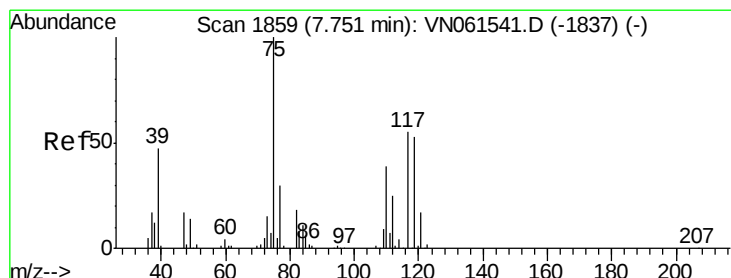
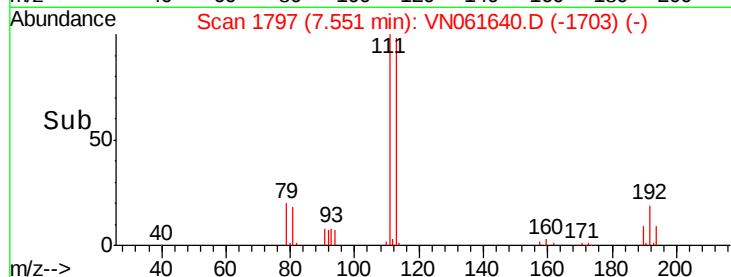
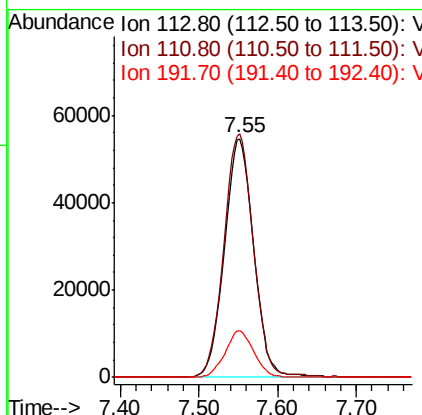
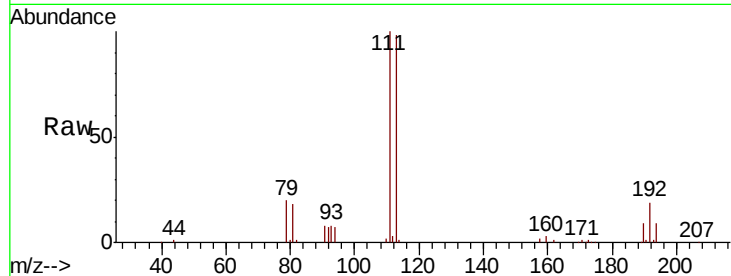




#35
 Dibromofluoromethane
 Concen: 54.999 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061640.D
 Acq: 3 Jun 2020 15:56

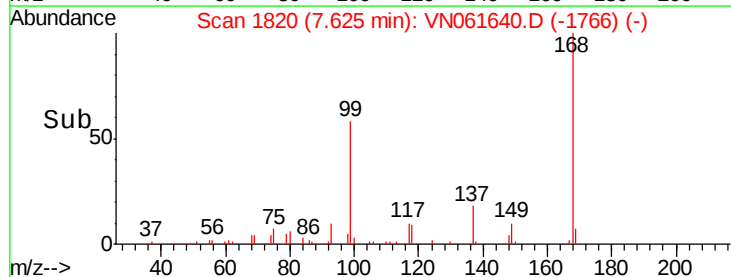
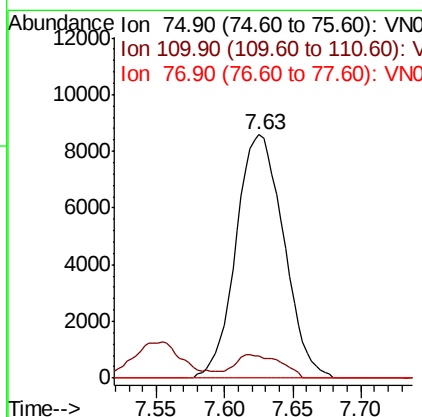
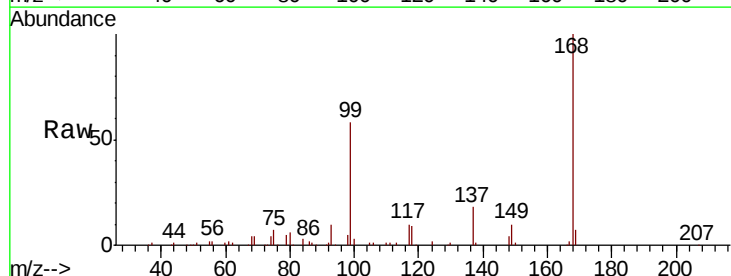
Instrument :
 MSVOA_N
 ClientSampleId :
 TOTE-OIL

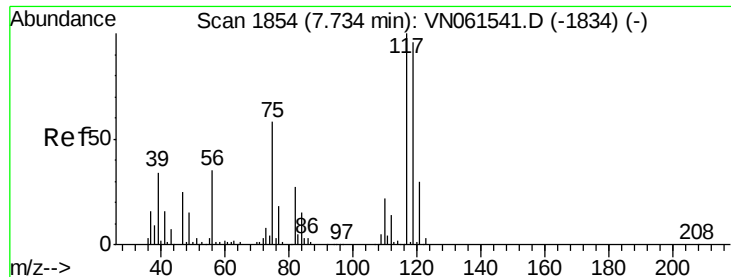
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	83.4	125.0
192	19.1	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 4.684 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061640.D
 Acq: 3 Jun 2020 15:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	19.5	58.5#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.664 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

TOTE-OIL

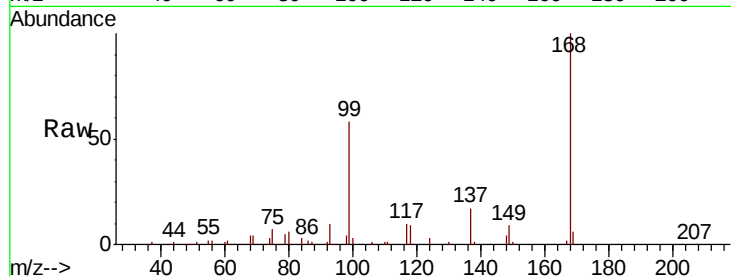
Tot Ion:117 Resp: 28612

Ion Ratio Lower Upper

117 100

119 4.4 76.5 114.7#

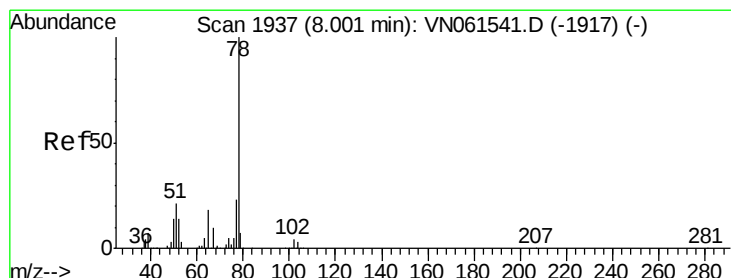
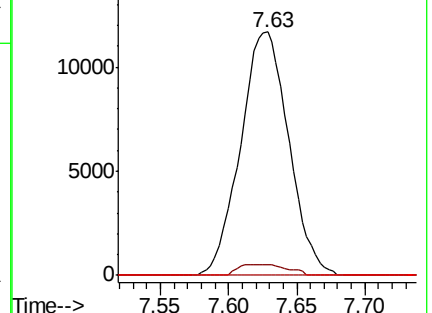
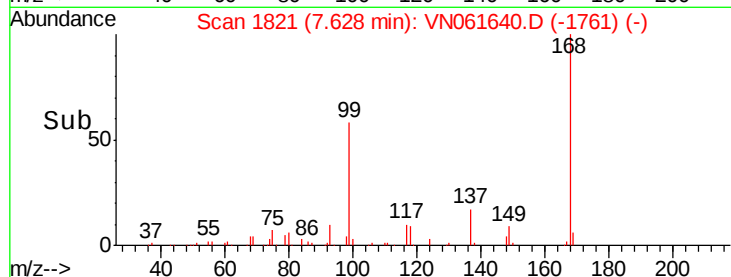
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 0.288 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.01 min

Lab File: VN061640.D

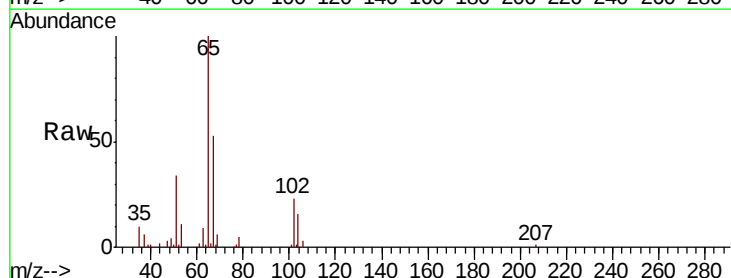
Acq: 3 Jun 2020 15:56

Tgt Ion: 78 Resp: 3951

Ion Ratio Lower Upper

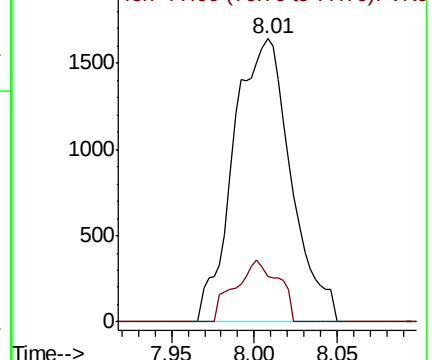
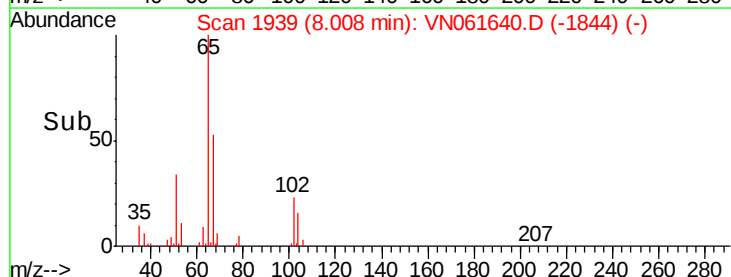
78 100

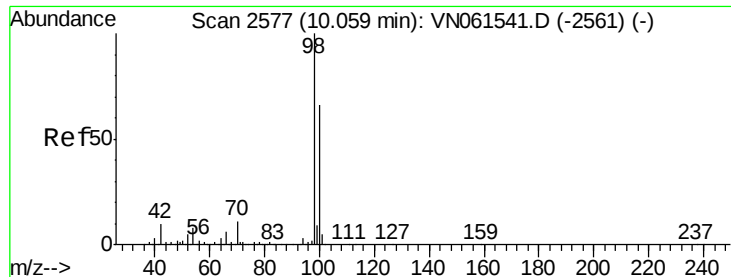
77 16.1 18.6 28.0#



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#50

Toluene-d8

Concen: 51.041 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

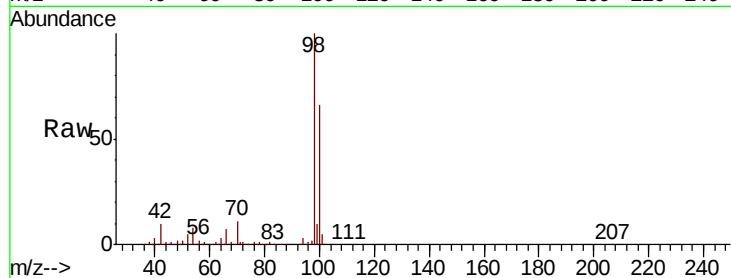
TOTE-OIL

Tot Ion: 98 Resp: 603300

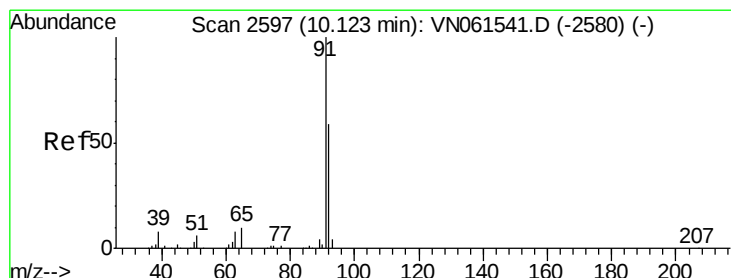
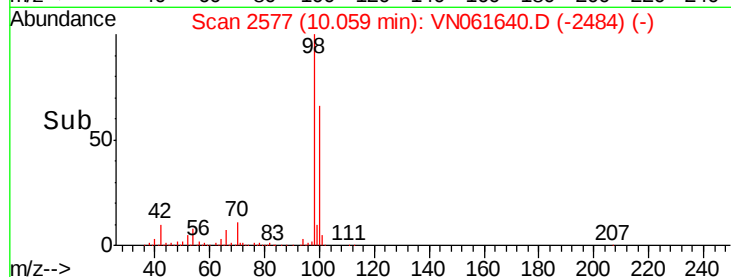
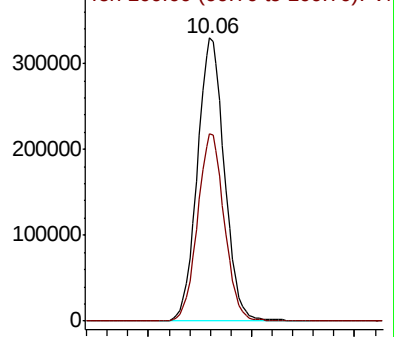
Ion Ratio Lower Upper

98 100

100 65.5 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061640.D (-2561) (-)



#52

Toluene

Concen: 1.524 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. 0.00 min

Lab File: VN061640.D

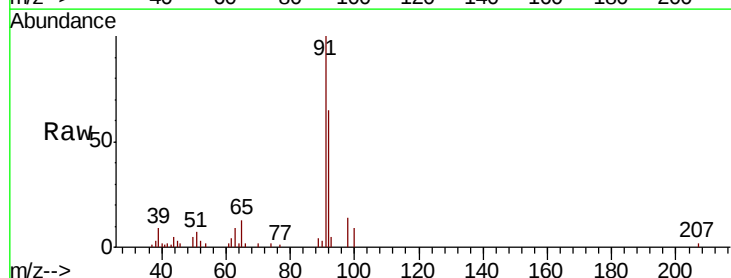
Acq: 3 Jun 2020 15:56

Tgt Ion: 92 Resp: 13657

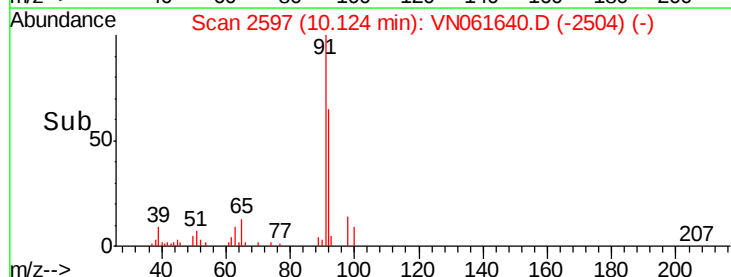
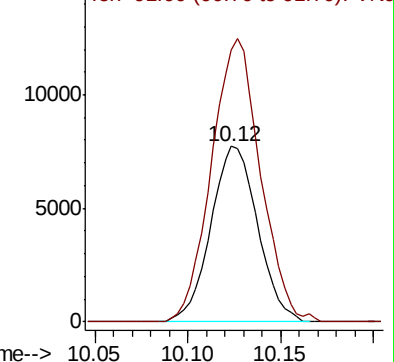
Ion Ratio Lower Upper

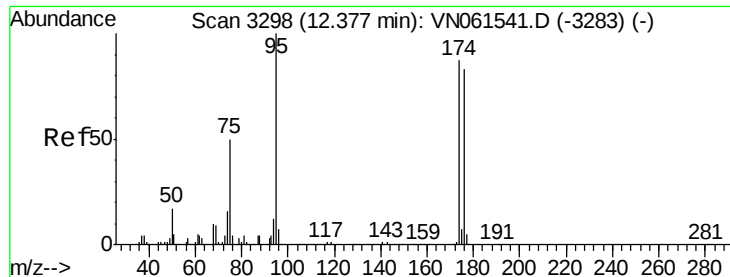
92 100

91 168.1 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VN061640.D (-2504) (-)

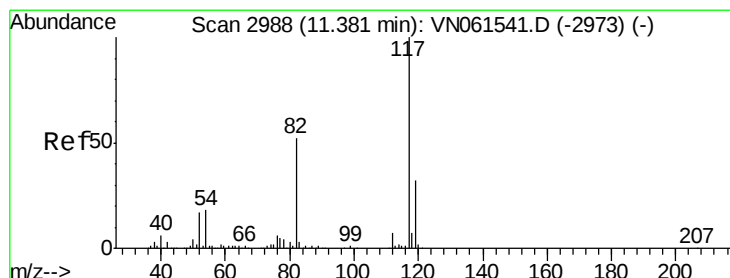
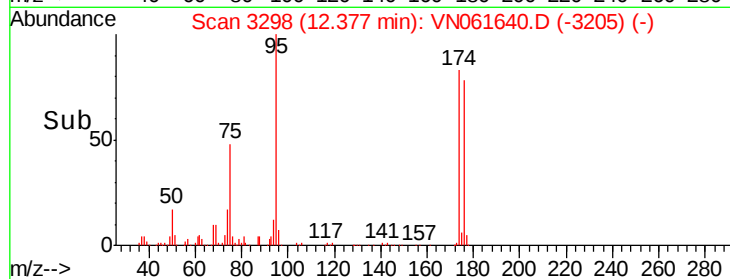
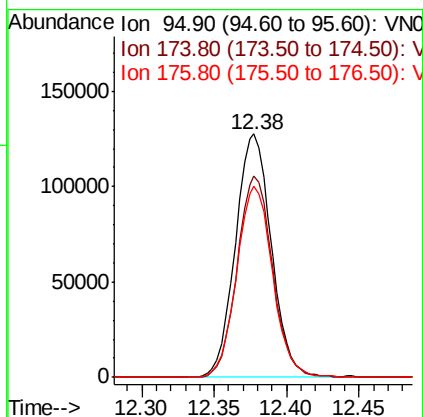
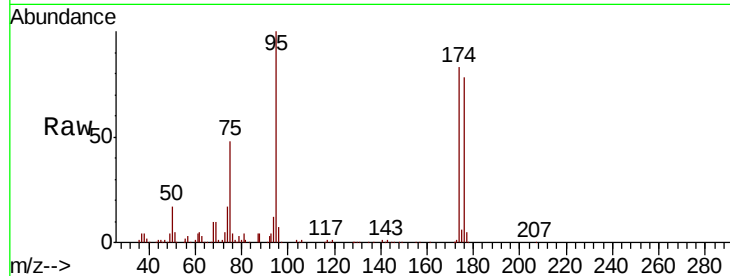




#62
4-Bromofluorobenzene
Concen: 50.973 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061640.D
Acq: 3 Jun 2020 15:56

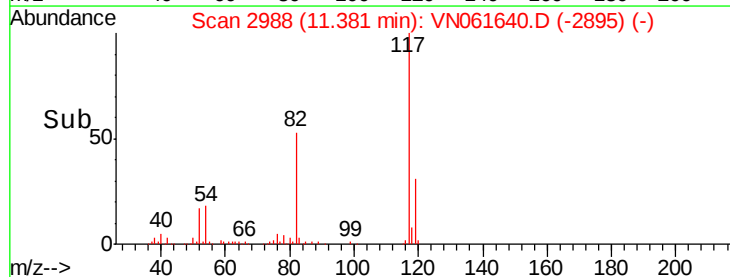
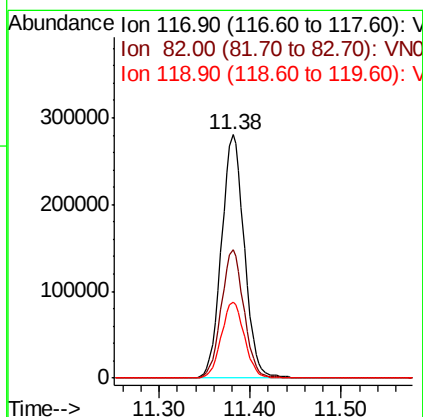
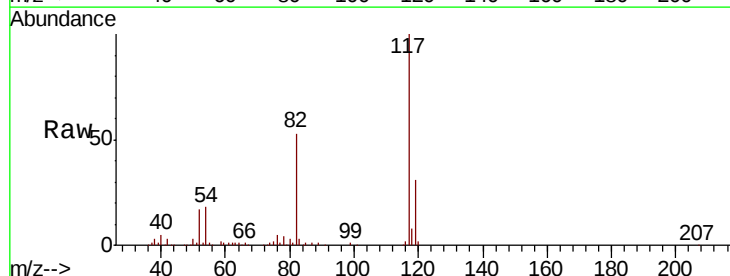
Instrument :
MSVOA_N
ClientSampleId :
TOTE-OIL

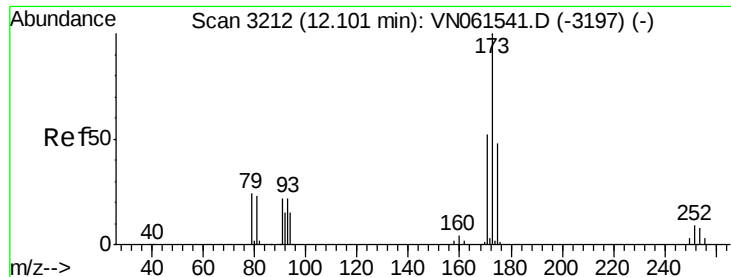
Tot Ion: 95 Resp: 219810
Ion Ratio Lower Upper
95 100
174 81.9 0.0 172.8
176 78.6 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061640.D
Acq: 3 Jun 2020 15:56

Tgt Ion: 117 Resp: 488655
Ion Ratio Lower Upper
117 100
82 52.5 41.5 62.3
119 31.4 25.6 38.4





#71

Bromoform

Concen: 0.560 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

TOTE-OIL

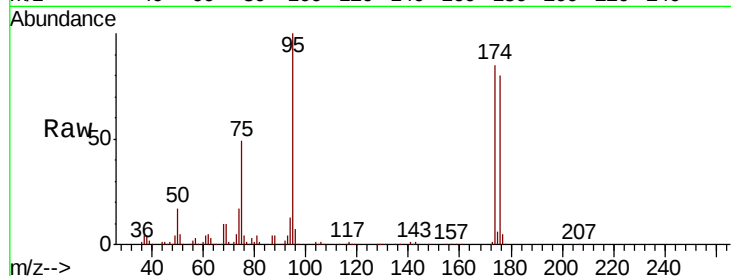
Tot Ion:173 Resp: 1632

Ion Ratio Lower Upper

173 100

175 706.5 24.4 73.2#

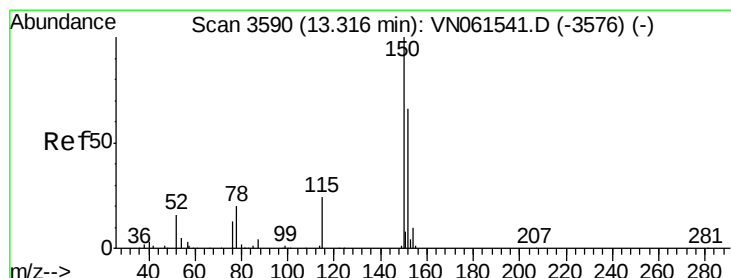
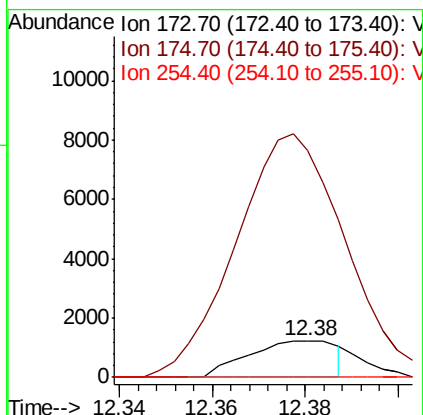
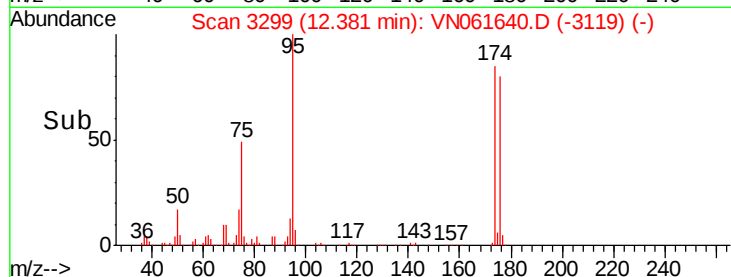
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

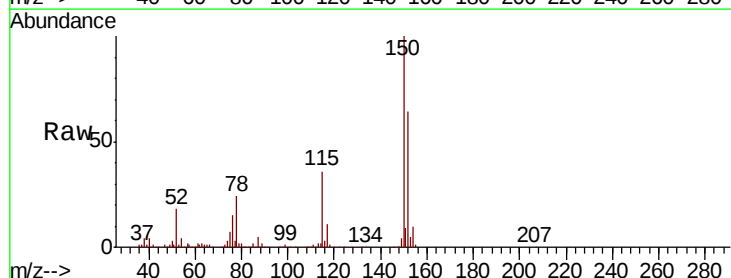
Tgt Ion:152 Resp: 220440

Ion Ratio Lower Upper

152 100

115 57.2 28.0 84.0

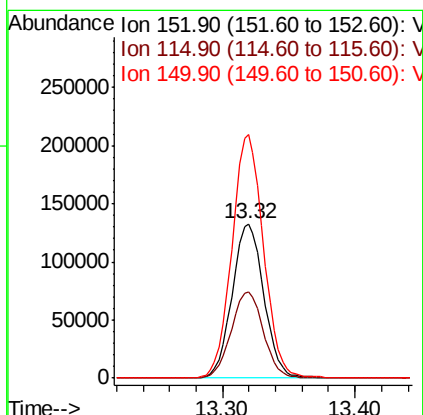
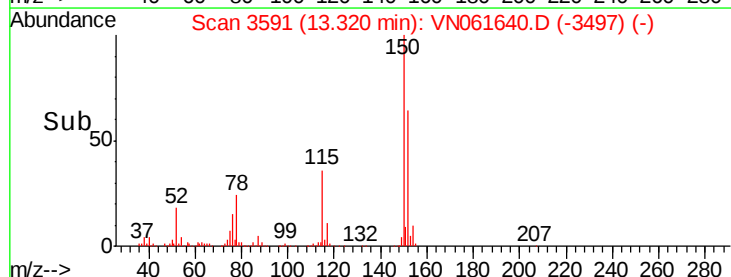
150 156.9 0.0 344.0

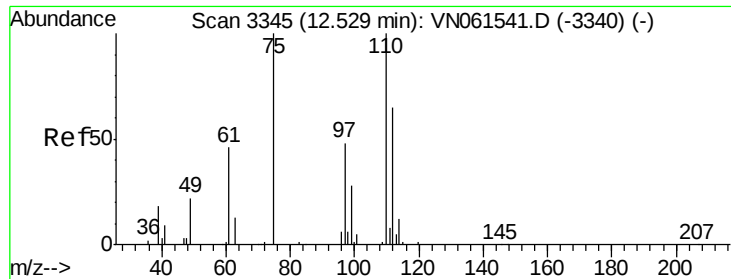


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.842 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

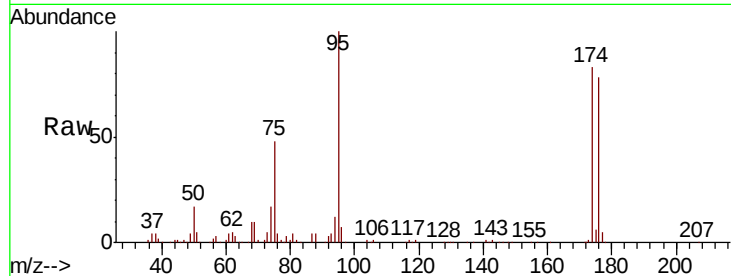
TOTE-OIL

Tot Ion: 75 Resp: 107595

Ion Ratio Lower Upper

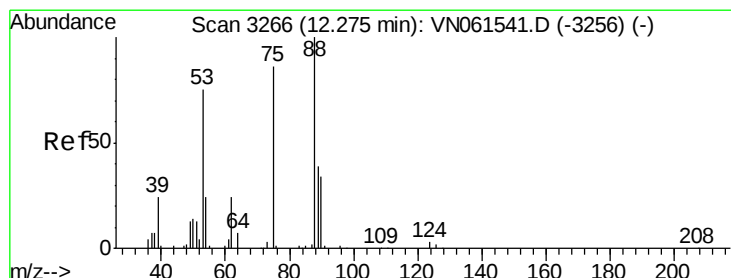
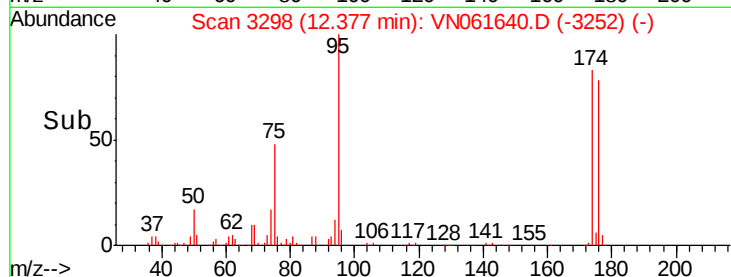
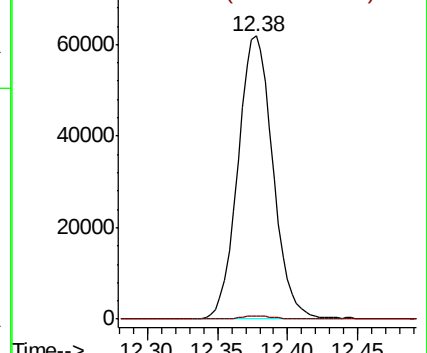
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 68.642 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061640.D

Acq: 3 Jun 2020 15:56

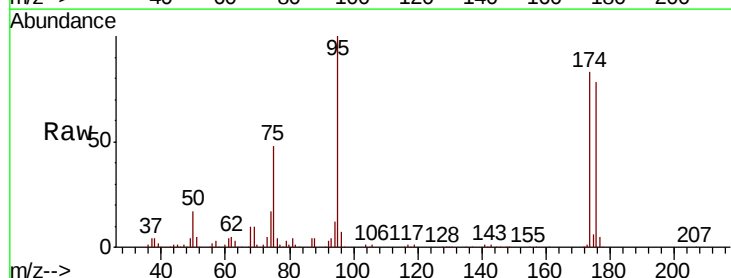
Tgt Ion: 75 Resp: 107595

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

